From: Coarsey, John B. - Director, Electric T & D Planning <CoarJB@jea.com>

Sent: Monday, December 2, 2019 8:08 AM

To: McInall, Steven G. - VP & Chief Energy & Water Planning; Pope, Jordan A - Dir

Economic Development and Real Estate; Zammataro, Robert J. (Rob) - Dir W/WW

Planning & Development

Subject: RE: McKinsey Strategic Plan - Complete Doc - REVIEW

Attachments: 1126 2030 Strategy Document_vF.pdf

This entire PDF, having been for the most part crafted with no input from my team seems to be the work of inexperienced consultants and financial people. This entire report seems to be more of a wish list put together by people who have little or no understanding of the critical technical hurdles most of this involves. The logic or lack thereof of comparing of JEA with other utilities that are completely different and then drawing comparisons that by their nature are not completely accurate seems to be a recurring theme in this report. Comments below. I am forwarding to Matt and Russ to see if I am missing something.

John

John B. Coarsey, P.E. Director, Energy Planning Direct: (904) 665-6739 Fax: (904) 665-7263

----Original Message-----

From: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com>

Sent: Friday, November 29, 2019 6:24 PM

To: Coarsey, John B. - Director, Electric T & D Planning <CoarJB@jea.com>; Pope, Jordan A - Dir Economic Development

and Real Estate <popeja@jea.com>; Zammataro, Robert J. (Rob) - Dir W/WW Planning & Development

<zammrj2@jea.com>

Subject: FW: McKinsey Strategic Plan - Complete Doc - REVIEW

Fyi. Hope you had a great Holiday

From: Eads, Shawn W. - VP & Chief Information Officer

Sent: Wednesday, November 27, 2019 4:38 PM To: (Mgmt - JEA Senior Leadership Team (SLT) Cc: Aaron Bielenberg; Andrew Grass; Anton Derkach

Subject: McKinsey Strategic Plan - Complete Doc - REVIEW

SLT,

McKinsey has finished their alignment of the 10 year strategic plan and have added all the details they collected and worked with you on for mid-level implementation details. It is now time for us to give these documents a deep scrubbing.

Attached is the complete document. You are more than welcome to review the document in its entirety, but we also have provided a guide below for the pages we definitely need you to dig into and make sure you understand them and can take them forward as we move into the next phases of detailed implementation planning and execution.

McKinsey will be onsite December 2-13 to work with you on any questions you have and any corrections you feel are needed. Post December 13, McKinsey will begin their Light Touch phase through March, which means they will not be onsite daily and will be available through request.

It is our time to take the lead on our plan. Please let me know where I can help you!

Name
Role
Pages
Herschel Vinyard
Chief Administrative Officer
2-43
Lynne Rhode
Chief Legal Counsel
2-43, 77-100, 140-147
Kerri Stewart
Chief Customer Officer
2-43, 55-57, 125-128
Jon Kendrick
CHRO
2-43, 58, 129, 150-155
Steve McInall
Energy and Water Planning
2-43, No ready way to validate numerous statements made in this portion of the work.
62-75, This part of the work compares us and makes recommendations based on other utilities such as Con-Ed. Electric Planning had virtually zero input into this. As such there are several serious flaws. One such flaw calls for conversion of 4 kV. This has been done. What is left is in politically sensitive areas that are heavily treed. The conversion OH to UG is

77-100, No comments

135-139, They are words but as they say the devil is in the details.

laughable. At the end of the day most of what is suggested can be done but will likely be at a much higher cost.

140-147, Same as above John McCarthy **Chief Supply Chain Officer** 2-43, 58-59, 132-134 **Shawn Eads** CIO 2-43, 58, 77-100, 130-131, 140-147 Ted Hobson **Chief Compliance Officer** 2-43 Paul Stienbrecher **Environmental Services** 2-43, 69-70, 138-139 Caren Anders Energy 2-43, 47-51, 62-68, 71-75, 77-100, 114-121, 135-137, 140-147 **Sherry Hall** Chief Government Affairs Officer 2-43, 77-100, 140-147 Deryle Calhoun Water & Wastewater Systems 2-43, 52-54, 69-70, 121-124, 138-139

Shawn W Eads Chief Disruption Officer



Detail to follow

About this document

An overview of the approach and guidelines to JEA's strategy development

Strategic aspirations for JEA

2030 Vision for JEA across strategic pillars (customer, environmental, community, financial), with metrics outlined for each pillar; summary of how strategic initiatives will achieve financial and non-financial metrics

Operational improvements

Redesign of JEA's operating practices to achieve top-quartile performance as measured against JEA's peer set

Strategic capital investments

Investments in traditional utility infrastructure to deliver new outcomes and benefits to our customers (e.g. customer resiliency, grid flexibility and customer choice, clean and sustainable, etc.)

Core growth opportunities

Investments in new growth businesses core to the utility model: transport electrification, energy efficiency, distributed generation

Additional growth opportunities

Additional growth initiatives that position JEA as a growth platform that are currently not included in the financial projections

Next steps

Next steps to build capabilities and execute strategy

Appendix 1: Initiative charters and supporting analyses

Further detail on the strategic and financial objectives for each new initiative

Appendix 2: Next steps on implementation

Critical next steps to drive implementation of the strategic plan

Appendix 3: Organizational health initiatives

Actions JEA will undertake to improve its organizational health









JEA has taken a structured approach to building its 2030 Strategy (the "2030 Strategy" or "Management Case")

Internal stakeholder alignment (Board, SLT, appointed employees, Union); external stakeholder consultation and feedback



Phase 1

Apr-Dec 2018

Transition, stabilize JEA, develop guiding principles, dashboard and financial tools and hire CEO

January-June 2019

Develop baseline financial projections

Assess current state of JFA health and culture

Phase 2

Develop scenarios (including "traditional response" within JFA constraints)

Phase 3

July -October 2019

Develop unconstrained 2030 Strategy and Management Case to address challenges in baseline

Set metrics for performance and health

Develop strateaic portfolio of initiatives

Phase 4

Oct-Dec 2019

Finalize executable plan with no regrets near-term actions and options for long-term path

Phase 5

Oct 2019-mid-2020

Alian JEA Stakeholders & Charter with long-term plan to maximize value:

- 1) Customer;
- 2) Financial;
- 3) Environmental; and
- 4) Community **Impact**

Launch no-rearets strateaic initiatives

Note: this document makes references to the "2030 Strategy" and the "Management Case." With the ITN process ongoing, the "Management Case" term is important for consistency with the CIP. At the completion of the ITN process, however, all references to the "Management Case," "Respondent Financial Model," and other ITN or transaction-related terms should be scrubbed

Use of these materials for other presentations should take into account the audience and terminology should be adjusted accordinaly

Significant stakeholder engagement throughout the 2030 Strategy development process

Phase 1: Transition April – Nov. (2018)

Launched strategy development process, developed guiding principles Phase 2: Status Quo and organizational health November – March (2019)

Developed baselines of organizational health and performance, and presented to Board

Conducted working sessions with Energy and Water Planning, Finance to develop a baseline business performance forecast ("Status Quo") Deployed Organizational Health Index ("OHI") survey to assess health; 89% of organization completed the survey Phase 2: Traditional Response April – June (2019)

Developed "Traditional Response" to the Status Quo baseline and presented to Board

- Engaged SLT to identify potential valuecreating initiatives under the existing charter
- Worked with Finance and SLT to evaluate impacts on Measures of Value



Aligned with SLT on initiatives to include in Management Case, based on customer value, earnings growth, and execution capabilities

Assigned initiative owners in preparation for implementation planning

Conducted detailed screen of potential growth initiatives, leveraging industry comparables and internal ideation

Pressure-tested initiatives through SLT working sessions and filtered into preliminary list Conducted series of working Reviewed sessions with respective SLT preliminary members and their directors to aspirations and refine operational and strategic initiatives at SLT capital initiatives in:

- Generation
- T&D
- Water/Wastewater
- Customer
- G&A

Reviewed preliminary aspirations and initiatives at SLT offsite

Held the Utility of the Future workshop with 70+ directors from JEA to jumpstart strategy development in an unconstrained scenario

- Solicited input on 10-year aspirations for each Measure of Value
- Brainstormed initial ideas and initiatives to achieve the aspirations

Phase 3: UoF workshop July (2019)

Phase 3: Unconstrained strategy development August – October (2019)

PROJECT SCAMPI 4

The Management Case balances customer value, earnings growth, and capabilities



Customer value

Does the Management Case create value, affordably, for our customers?



Capabilities

Can we successfully execute the Management Case while mitigating risks?



Earnings growth

Does the Management Case achieve our earnings growth target?

Guidelines of the 2030 Strategy

Work JEA has undertaken to date to build the Strategy

Transition

 Develop guiding principles and strategic framework, corporate dashboard, and financial tools to support strategy assessment

Establish baseline

Assess current "business as usual" financial projection

Strategy development

- Design strategies to meet future targets and challenges
- -"Traditional" response (within existing charter)
- –2030 Strategy, "Non-traditional" unconstrained strategy



Core guidelines of the Strategy

- Build from the baseline
- Assess the strategy relative to the baseline as outlined in the May Board package
- Apply a non-governmental lens
- Assume a regulated rate base and corresponding revenue requirement
- Take an unconstrained view
- Assume JEA can alleviate the constraints associated with JEA's existing charter
- Contemplate strategic partners
 - Assume JEA can access the capital and capabilities required to execute the strategy through partnerships

As part of its 2030 Strategy, JEA will implement the initiatives that JEA's Senior Leadership Team ("SLT") incorporated into their 2030 Strategy base case projections (the "2030 Strategy" or "Management Case")

Detail to follow

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The "balanced" JEA of 2030 – a scorecard

		Management Case ¹	Projections ~\$125M				
	Earnings in 2030	~\$250M					
	Cumulative capital invested TOTAL/ENERGY/WATER	\$7.4B/\$4.4B/\$3.0B	\$4.7B/\$2.5B/\$2.2B				
	2030 average monthly energy electric bill / % CAGR	\$156 / 1.8%	\$145 / 1.1%				
	2030 average monthly water bill / % CAGR	\$94 / 3.7%	\$91 / 3.4%				
S	Earnings split ENERGY/WATER	30% / 70%	-9% /109%				
	FFO/Total Debt	25%	26%				
	MW of utility-scale renewable generation ²	~815 MW	0 MW				

To execute the growth-oriented scenario, JEA will require ~\$[X]B of capital beyond the baseline financial projections

^{1 2030} Strategy

² Assumes replacement of NS 1 + 2 + 3 with renewables portfolio SOLIRCE. IEA financials: team analysis

The 2030 Strategy sets new aspirations across each measure of value that go well beyond today's goals

Measure of Value 2030 Aspirations



- Become a regional leader in renewable generation
- Maintain operational excellence in water and wastewater, modernizing the system to maintain top quartile performance across the US



- Invest in the next generation of public infrastructure services mobility, resiliency, communications, energy
- Make JEA a best in class place to work, fostering innovation, collaboration, and career development opportunities for JEA employees



- Maintain customer affordability, keeping bill increases below inflation
- Transform the customer experience by applying data, analytics, and digital technology to customer-facing channels



- Grow earnings 5-7% year-over-year
- Diversify JEA's revenue sources beyond traditional water and electric sales
- Continue to deliver financial value to the City of Jacksonville

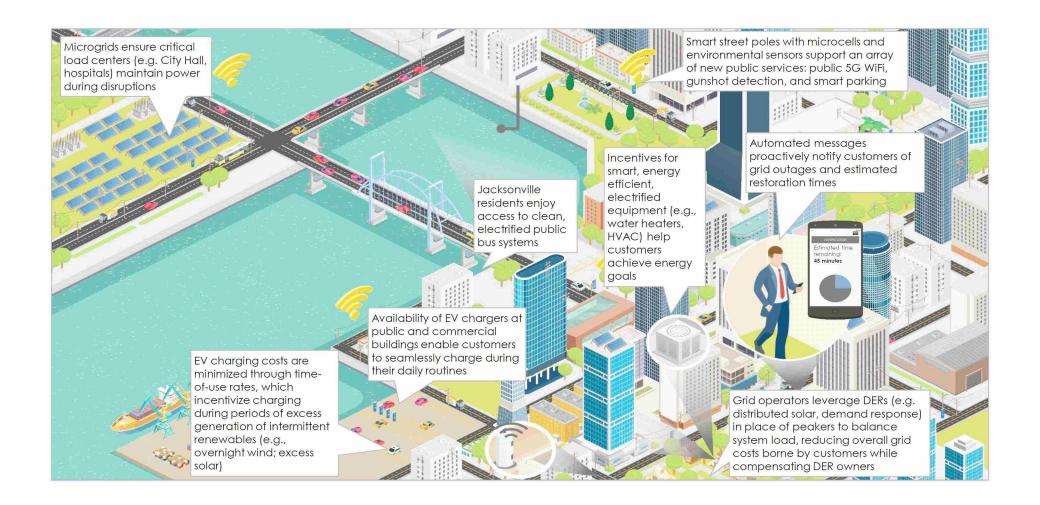
STRATEGIC VISION AND ASPIRATION FOR JEA JEA will add renewables and increase its share of reclaimed water to join other utilities, corporates with sustainability goals



1 No specific target date



JEA will enable innovative development and improved public services in its community





Avg. electric bill¹, 2017, 2030 projections

Bill growth will be outpaced by wage growth, reducing bills as an overall share of wallet

Increased investment in the electric system grows electric bills from an average of \$1.4K in 2017 to \$1.9K in 2030 ...



... resulting in lower overall share of wallet in 2030 by .5 percentage points

Share of wallet³, electricity spend as share of median income, 2017, 2030 projections

SOURCE: Moody's Analytics, Census.gov, ElA, Bureau of Economic Analysis, company website



¹ EIA Form 861; ABB Energy Velocity 2 US census, household income 2017

² Assumes median income CAGR of 2.7% consistent with Duval County CAGR from 2010-2020

³ Share of wallet defined as average annual electricity bill (EIA Form 861) over median household income (census.gov)

Regulated utilities continue to target 5-8% long-term EPS, regardless of business mix

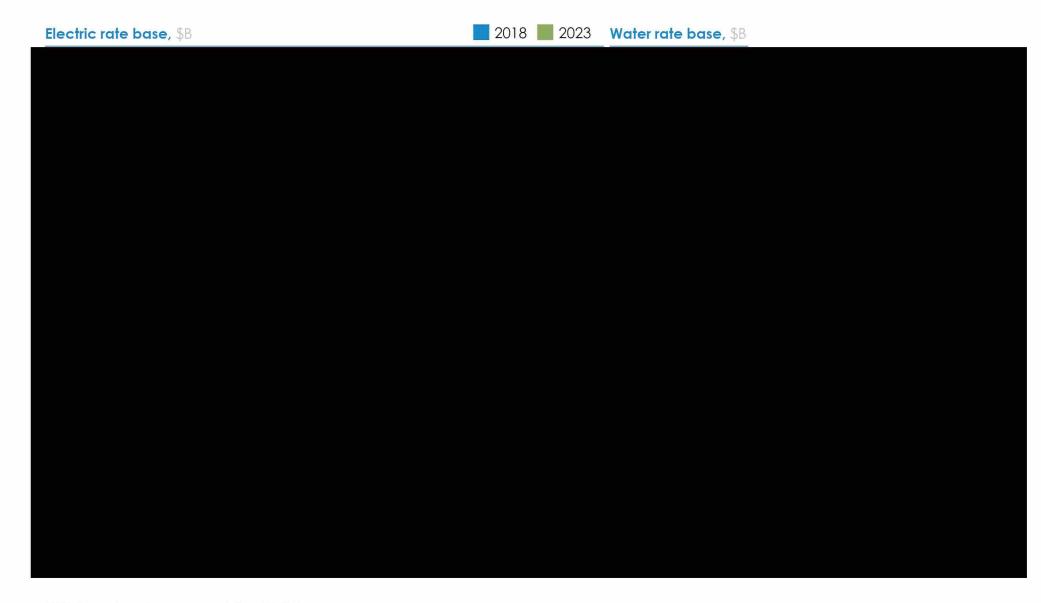
EPS target low end EPS target high end



SOURCE: Annual reports: Investor presentation



Increased earnings will be driven by strategic plans for rate base growth over the next five years

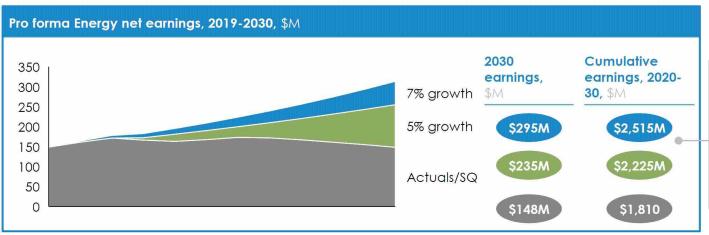


SOURCE: Annual reports, Investor presentations, S&P Global

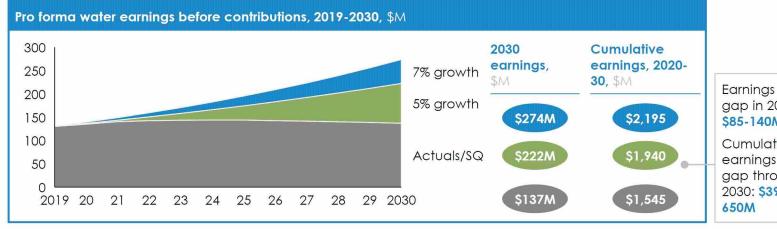
JEA needs to add \$190-305M of earnings across energy, water in 2030 vs. the baseline to deliver 5-7% annual earnings growth

Assumptions

- Pro-forma rate base usina historicals. baseline forecasts (rate increases allowed)
- 52.5% / 47.5% equity-tocapital structure
- 10.55% ROE for energy, 10.00% ROE for water
- 5-7% earnings growth using 2018 as a base year



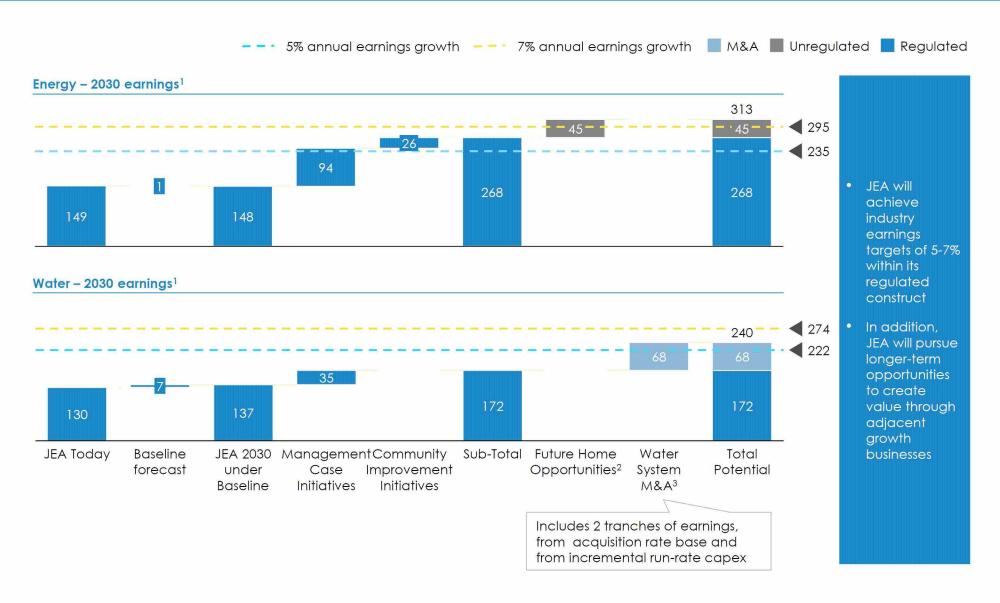




gap in 2030: \$85-140M Cumulative earnings gap through

2030: \$395-650M

The 2030 Strategy delivers the earnings needed to meet JEA's targets, with upside potential from adjacent growth businesses



¹ Assumes perfect rate-making and does not conform to the rate stability case in the Respondent Financial Model

AND THE PARTY OF T

² Estimate of potential earnings under a high case. Other additional growth opportunities (e.g., expansion of dark fiber leasing, SJRPP monetization, District Energy System expansions) not reflected here

At the same time, the 2030 Strategy resolves the \$3.2B cash gap identified in the baseline financial projections

ILLUSTRATIVI

How the strategy impacts JEA's cash

2030 baseline financial projections

JEA's net cash position

Recapitaliza-

Outside capital supplied by an external partner

O&M and fuel savings

Reduced expenses enabled through operational improvements

Additional capital investment

Incremental capital spend on investments to create value for JEA stakeholders

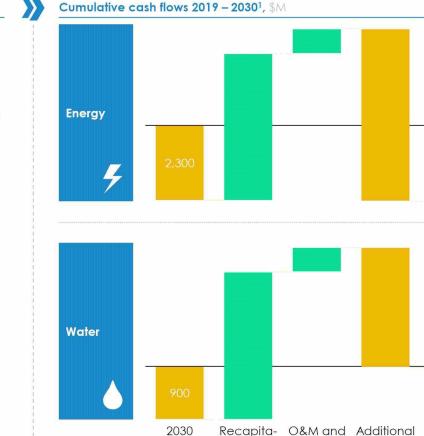
Rate increases

Additional cash inflows from higher rates

Additional borrowings Outside capital supplied by lenders

Changes in financing costs³

Net impacts from the change in JEA's capital structure (e.g., dividend payments, incremental interest expense, etc.)



baseline

financial

projections

1 All changes are shown relative to the baseline financial projections. SOURCE: JEA financials, team analysis 2 Net of recapitalization proceeds that go to the City

lization² fuel savings capital

investment

3 Assumes a 65% dividend payout ratio

Additional Changes in

costs

increases borrowings financing

Rate



JEA

Strategy

Cash

Flows (pro-

forma)

JEA's 2030 Strategy involves executing a portfolio of initiatives that are organized into four categories

Note: far right column should be deleted if using in a non-ITN context

Initiative Category

Description

Operational improvements



Increase the efficiency and productivity of JEA's operations and O&M and capex spend to create investment headroom to reinvest, to support customer affordability, and to improve service quality and performance outcomes

Reflected in Respondent Financial Model

Strategic capital investments



Make incremental capital investments in JEA's core, existing utility businesses that expand the capabilities of JEA's infrastructure to serve customers while growing earnings and the regulated asset base

Partially Reflected in Respondent Financial Model

Core growth opportunities



Invest in new growth businesses – both within the regulated utility and beyond it – that grow JEA's earnings through delivery of new services and solutions to JEA stakeholders

Partially Reflected in Respondent Financial Model

Additional growth opportunities



Identified additional growth initiatives that position JEA as a growth platform

Additional Upside Not Reflected in Respondent Financial Model

These initiatives allow JEA to achieve its full slate of aspirations, both financial and non-financial

JEA's overall vision



JEA is a platform for economic development in Jacksonville - a magnet for new businesses and a recognized leader in identifying, incubating, and scaling innovative infrastructure solutions

This platform is built on a strong operational foundation - national leadership in water and electric power, underpinned by a best-in-class workplace that advances careers and attracts premium talent to Jacksonville











Outcomes by Measure of Value

Environment. Incrementally reduce our environmental footprint, reducing GHG emissions and providing clean air and water for our community

Community. Improve the quality of life for residents of Jacksonville by providing accessible infrastructure and spurring economic growth and job creation

Financial. Build a profitable, sustainable, and low-risk utility business that can continue to create value for its stakeholders in line with utility peers Customer. Meet evolving customer needs with a range of new, innovative offerings while continuing to deliver top quartile, regionally affordable services Workforce. Develop a top quartile OHI workforce that can execute the 2030 strategy

Key initiatives

Operational improvements



Minimize environmental impacts from leaks, outages

Leverage best-in-class operations knowledge when building businesses, fostering economic development Create additional investment headroom through reductions in the O&M components of bills

overall affordability

Deliver a better customer

experience while maintaining

Build an industry leading, customer-centric culture focused on driving loyalty and value

Strategic capital



Invest in sustainable infrastructure for low-carbon power generation and water reclamation

Ensure continuity of public services during extreme weather events by increasing the resilience of our infrastructure

through regulated capital deployment while reducing stranded asset risks

Generate additional earnings

Invest in a more flexible "Network of the Future" that accommodates new products and solutions Create an in-house innovation hub to actively invest in developing new capabilities and shape the market

Growth opportunities



Accelerate uptake of new, clean technologies (e.g., rooftop solar, energy and water efficient appliances) Drive economic growth by building an Economic Development hub that attracts dynamic new businesses to Jacksonville Improve the quality of JEA's earnings and overall risk profile via new business opportunities, diversifying earnings streams Incubate and deploy new solutions that equitably and affordably meet customer needs Set aside time for regular, open forums with JEA leadership (e.g., monthly "Ask Me Anything" town hall sessions)

Critical enablers



Strengthen our organizational health by positioning JEA as a market mover with employees empowered to achieve our full slate of aspirations

Invest in digital tools and capabilities at scale, including smart assets, new software tools, advanced analytics capabilities, and front-end digital applications

Proactively engage with stakeholders -- customers, environmental groups, regulators, legislative bodies - to shape regulatory policy to meet community objectives

~ . . .

Metrics to track



Carbon intensity of generation mix

% of water from reclaimed sources

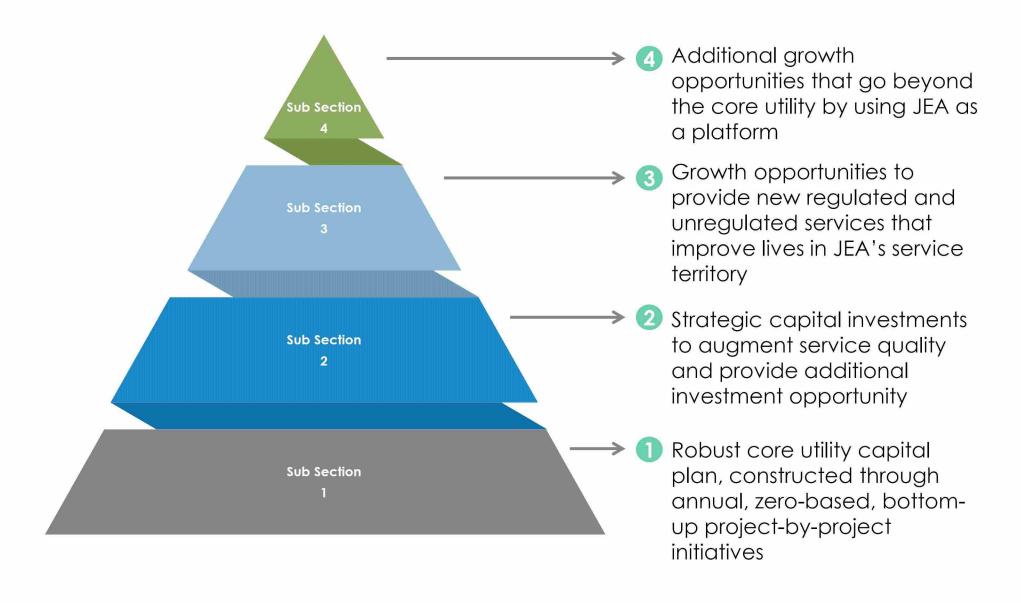
New public services offered # new jobs created Sustained outage hours Earnings growth
% of revenues from new businesses

Economic value to the City of Jacksonville

Share of wallet
CAIDI/SAIFI/SAIDI

PROJECT SCAMPI 19

JEA's capital plan builds on a strong foundation of execution







Overview of operational improvements

JEA is launching a set of initiatives that cut across business functions to increase quality of service while reducing costs

Frontline operational improvements



- Implement lean process improvements to drive increased productivity that will be monetized through attrition, e.g.:
 - Eliminate wait times in core processes (e.g., crews have required materials to complete at job at the start of the shift)
 - Eliminate unnecessary work or processes (e.g., stop preventative maintenance and inspections that don't improve asset performance or health)
 - Streamline routing of crews and materials to lower transportation costs (e.g., redesign work planning and dispatch)

Digitalization and automation



- Leverage digital tools to redesign our ways of working (e.g., predictive maintenance algorithms, automated scheduling tools that prioritize and assign work to the right crews at the right time)
- Provide seamless, low-touch digital channels to meet customer needs through mobile and web platforms
- Automate and streamline basic tasks, including customer interactions, using process automation, self-service tools, and intelligent chatbots

Demand management



 Optimize the demand for materials and 3rd party services across the organization (e.g., frequency of replacements, revising required specs of materials and scope of services, deferring or cancelling unnecessary spend)

Optimization of fuels and energy consumption



- Reduce heat rate to minimize fuel consumption through performance tracking and targeted technical improvements
- Minimize consumption of auxiliary load across JEA's facilities (e.g., turning off unnecessary equipment)

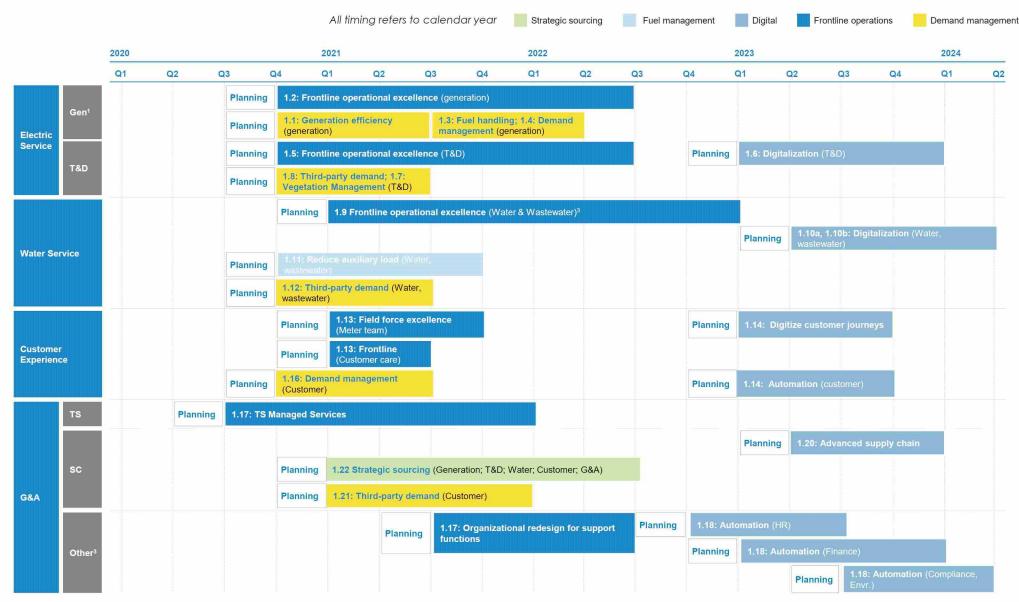
Strategic sourcina



- Scrub the capital portfolio against JEA's strategic priorities, eliminating or deprioritizing non-critical projects
- Optimize project delivery (e.g., integrated design and project execution) to deliver the work at a lower cost
 - Manage strategic sourcing events to maximize value to JEA, leveraging the full suite of tools available commercial negotiations (e.g., fact-based, value-focused negotiations with suppliers) and process improvements (e.g., developing and managing systems to claim warranties)



Operational improvements timeline to capture



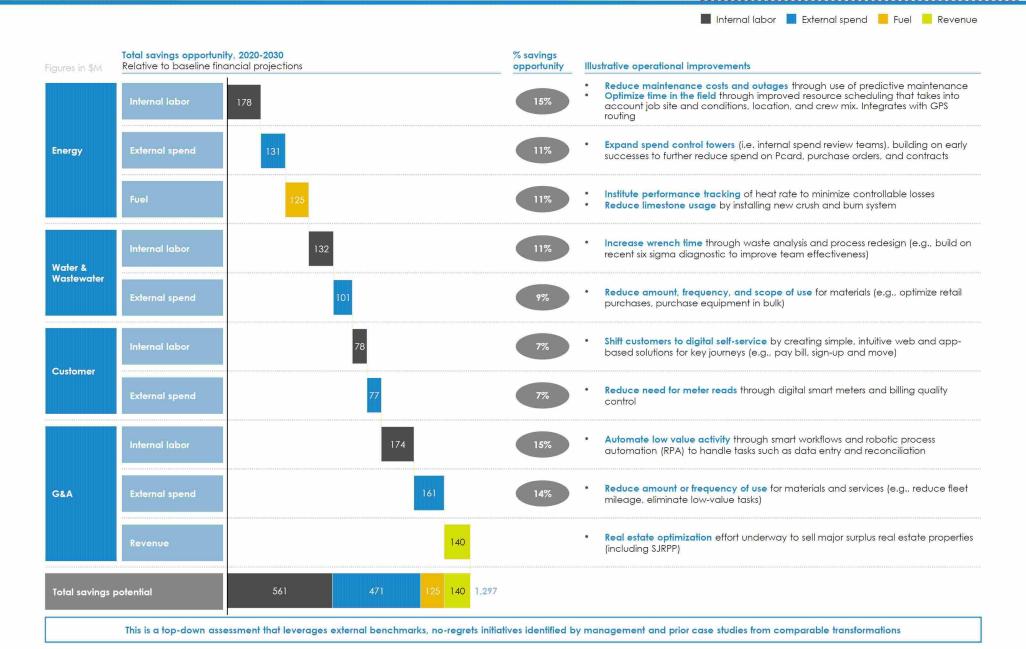
¹ All of the major initiative categories will be rolled out to Northside, Kennedy, Brandy, Branch, and Greenland generation facilities Environmental; 4 To be rolled out in the following order: Buckman; District II; Southwest; Arlington; and Water Treatment Plants

3 HR, Finance, Compliance

SOURCE: JEA financial statements, 2018 budget, and senior team initiative development

² Bottom up planning

1) These initiatives generate savings of \sim \$1.3B







Overview of strategic capital

Electric Water Cross-cutting

JEA will make five types of additional investments to expand the benefits our infrastructure provides to our community and customers



Reduced impacts on utility services from extreme weather events through the deployment of new technologies and enhanced design standards

Grid flexibility



The ability to use a growing, diverse set of resources to dynamically shift demand (load) or supply (generation) across multiple timescales, depending on system needs

Advanced asset



Improved observability of infrastructure systems through the deployment of distributed, intelligent devices and advanced operational technology platforms

Septic tank phase-outs



Cleaner, safer, and more convenient wastewater services through system expansion and phase-out of septic tanks

Alternative water supply



Accelerated plans to expand reclaimed water infrastructure

- There are significant investment opportunities incremental to JEA's baseline (i.e., the 10-year capital forecast)
 - The capital associated with these investment opportunities are included in the Respondent Financial Model as separate, discrete line items
- The following pages show both specific potential investments and a reasonable 10-year capital program for each category
- Unlike the rest of JEA's capital plan, these figures do not reflect a bottom's-up, granular investment plan

A greater share of the required capital identified to date is related to the electric business (e.g., transformer monitoring solutions, new WMS), so the capital associated with advanced asset management



Strategic capital investments timeline to capture

All timing refers to calendar year

	2020	ř			2021			2022				2023				2024			2	025			
	Q1	Q2	Q3	Q4	Q1 Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4 (Q1 Q	2	Q3	Q4
System Resiliency	Pla	inning ¹	me	e-Deployent Impleentation ²	- Deployr	ment³															Capit deplo to 20	yed	
Grid flexibility	Pla	nning			eploymen mentation			Dep	ployme	nt											Capit deplo to 20	yed	
Advanced asset management	Pla	nning					e-Deploy plement			Dep	loymer	nt									Capit deplo to 20	yed	
Septic tank phase-outs	Pla	nning	me	e-Deploy- ent Imple- entation	Deployr	nent															Capit deplo to 20	yed	
Alternative water supply																Plannii	ng	Pre-De ment li mentat	mple-	Deploy ment	,-	Capital deploye to 2030	ed

¹ In capital projects, the scoping phase roughly corresponds to the planning phase in this framework, the engineering phase to pre-deployment implementation phase in this framework, and the execution phase to the deployment phase in this framework

SOURCE: JEA financial statements, 2018 budget, and senior team initiative development



2 Generation overview

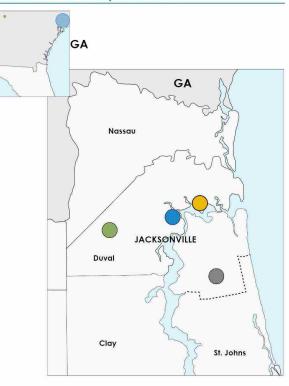
Overview

- The generation fleet consists of four owned and operated power plants that use fossil fuels, primarily natural gas, with generating capacity of 3,135 Megawatts(1) ("MW") and a joint ownership interest in Plant Scherer Unit 4, which has a net generating capacity of 198 MW
- · Four owned and operated plants are the J. Dillon Kennedy Generating Station ("Kennedy"), the Northside Generating Station ("Northside"), the Brandy Branch Generating Station ("Brandy Branch") and the Greenland Energy Center ("GEC")
- JEA leverages the flexibility of its existing resources and the significant investment that has been made in the Electric System's generation assets to address customer needs
- JEA is dedicating capital to ensure the long-term availability of safe, reliable power while taking into consideration the age of its generation assets, prospective environmental regulations, energy efficiency and demand-side management, and evolving customer preferences and expectations

Generation Fleet

Facility	Primary Fuel Type	Capacity (MW) (1)	Year in Service
Gas Fuel:			
Brandy Branch	Natural Gas	816	2001-2005
Northside Unit 3	Natural Gas / Oil	524	1977
Kennedy	Natural Gas	382	2000-2009
GEC	Natural Gas	382	2011
Solid Fuel:		-	
Northside Units 1&2	Pet Coke	586	2003
Scherer Unit 4	Coal	198	1989
Peaking Reserve:			
Northside CTs	Diesel Fuel Oil	246	1975
Total		3,135	

Generation Facility Locations



· Electric System Overview



Evolution of generation portfolio in the next decade

Overview

JEA is planning two significant retirements and replacements to maximize value to customers in the community:

- Beginning in 2025, JEA will replace the 524 MW Northside Unit 3 with a natural gas combined cycle facility
- -This replacement enables the smooth retirement of a vintage 1977 unit from JEA's fleet and replacement with a more efficient facility, improving JEA's environmental footprint
- Later In the decade, JEA expects solar + storage to offset the costs of operating Units 1 & 2, allowing JEA to replace 586 MW of coal generation with clean, reliable capacity and energy
- -Enhanced investment opportunity resulting in lower overall rates to customers and substantially improving JEA's environmental footprint is a unique win-win-win opportunity





The Northside replacement initiatives represent a material increase in JEA's renewable energy portfolio and a meaningful investment opportunity





JEA will harness opportunities across three markets to serve customers more effectively, driving development in Jacksonville

How trends are creating opportunities Jacksonville Today

How JEA will harness opportunities for customers



- The transition to electrified products

 driven by declining costs and
 evolving customer preferences –
 requires significant infrastructure
 investments and grows load
- EV penetration is approximately 33% of the national average (2)
- No plans to fully electrify ports or municipal fleets
- Provide EV incentives, public charging infrastructure, and private charger installation, boosting EV adoption to be in line with the US average
- Electrify the Port of Jacksonville / non-road end users and municipal and public school buses



DG solar and storage

- Solar and storage LCOEs declined nearly 3x in Florida from 2010-17 due to lower hardware prices
- Customers are increasingly looking to solar plus storage as a convenient, affordable, and reliable generation option
- Fewer than 0.5% of customers in Jacksonville have installed DG solutions
- Build community solar, providing equitable access to DG
- Offer residential storage installation to accelerate pre-parity adoption
- Provide C&I DG installation services throughout the region



- Customers are seeking out an increasingly sophisticated, robust set of energy efficient (EE) home and business solutions to manage energy use
- Jacksonville residents are increasingly adopting EE products, but FL utilities have been hesitant to seek earnings on lost load (1)
- JEA has begun some public lighting upgrades, in partnership with the City (3)
- Seek incentives that provide fair compensation for the deployment of EE devices
- Power Jacksonville's streetlights with "smart", efficient lighting, building on current programs (3)

Notes:

While US utilities, on average, earned 0.7% of 2017 retail sales from Energy Efficiency savings. Southeast utilities earned 0.3%

As a % of car parc. Based on Management Response forecasts, in 2019, EVs comprised 0.2% of the JAX LDV fleet, vs. the national average of 0.6%

JEA has upgraded 30,000 traffic signal bulbs to LED, and has upgraded the majority of its streetlights (> 60%)

3

Core growth opportunities



Included in the Respondent Financial Model Management Case and Management Case under Scenario A



Included in the Respondent Financial Model Community Improvement Case



Electrification

Initiative JEA's business model Start year

- 3.1 Expand incentives for electric vehicles and chargers
- JEA will generate regulated earnings from the \$15M in Capex deployed to provide vehicle and charger incentives to customers, and administer the overall program, contributing to an incremental 72GWh of load growth in 2030 by supporting EV market growth
- 2020

- 3.2 Build out public DC FAST and L2 charging throughout Jacksonville
- JEA will generate regulated earnings from the \$304M in Capex deployed to install and maintain public L2 and DC Fast chargers, contributing to an incremental 72GWh of load growth in 2030 by supporting EV market growth
- 2021

- 3.3 Own and operate bus charging infrastructure for Jacksonville's city and public school fleets
- JEA will generate regulated earnings from the \$95M in Capex deployed to design, install, and maintain municipal electric school buses and public transit bus charging infrastructure in partnership with the City and Jacksonville Public Schools
- 2022

- 3.4 Build an L2 home charger installation business
- JEA will become the premier entity in Jacksonville to install the ecosystem of private home L2 chargers, earning a 15% (1) margin on installation, contributing to an incremental 72GWh of load growth in 2030 by supporting EV market growth
- 2023

- 3.5 Electrify non-road end use
- JEA will generate regulated earnings from the \$35M in Capex deployed from an ambitious program to support electrification of port equipment and in-port activities (e.g., cranes and freight carriers)

2023

Notes:

Assumes ~15% margin, \$420/charger fee, and share of new chargers market reaching 27% in 2030
Capital opportunity reflects investment the Port of Jacksonville, but JFA will pursue other non-road electrification apportunities as well.

3

Core growth opportunities Detail (cont'd)



Included in the Respondent Financial Model Management Case and Management Case under Scenario A



Included in the Respondent Financial Model Community Improvement Case



DG Solar and Storage

Initiative JEA's business model Start year

- 3.6 Install, own, and dispatch behind the meter DG storage
- JEA will generate regulated earnings from the \$31M in Capex deployed to install and maintain utility-owned behind-the-meter battery storage, "boosting" near-term DG uptake in the pre-cost parity years



- 3.7 Build a DG solar installation business for Industrial customers
- JEA will provide solar design, development, and installation services for C&I customers



Energy Efficiency

Initiative JEA's business model Start year

- 3.8
- Install "smart poles," building on JEA's existing "smart streetlights' program
- JEA will generate regulated earnings from the \$200M in Capex deployed to build out "smart poles" in its service territory to enable the roll-out of new public services and smart city use cases (e.g., free community WiFi, environmental data sensors to support traffic algorithms, etc.)





Core growth opportunities timeline to capture

	All timing refers to calendar year				Included in the Respondent Financial Model Management Case and Management Case under Scenario A							ent	Included in the Respondent Financia Model Community Improvement Co					cial Case					
	2020	2021			2021	2022				2023					2024			2025					
	Q1	Q2	Q3 C	Q4 Q	1 Q2	2 Q3	Q4 (21 (Q2 (Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Expand incentives for electric vehicles and charging		Planning Pre-launch implementation Program implementation Program implementation									Pro- gram close												
Build out public DC FAST and L2 charging throughout Jacksonville		Plan- Pre-deployment Implementation and deployment							Capit deplo to 20	yed													
Own and operate bus charging infrastructure	Plan- deployment Implementation and deployment dep								Capit deplo to 20	yed													
Build an L2 home charger installation business									Plan- ning	Pre-dimple	eploymer mentation	nt Imp	plementat	ion and d	eployme	ent						Capit deplo to 20	yed
5 Electrify the Port of Jacksonville									Plan- ning		epl <mark>oymen</mark> mentatior		plementat	tion <mark>and</mark> d	eploym	ent						Capit deplo to 20	yed
Install, maintain, and dispatch residential storage			Plan- deployment Implementation and deployment deployment							Capit deplo to 20	yed												
7) Build a C&I DG solar business		Plan- Pre-deployment implementation and deployment																					
Install "smart poles"							Planni	ing	Pre- deploy impler on	yment mentati	Implen	nentati	ion and de	eployment								Capit deplo to 20	yed



3 JEA's 2030 core growth opportunities consist of 8 initiatives



Included in the Respondent Financial Model Management Case and Management Case under Scenario A



Included in the Respondent Financial Model Community Improvement Case

> Cumulative regulated

		Market	Initiative (1)	capital deployment, 2020-30 (2)	Cumulative unregulated margins
		Expand incentives for electric vehicles and chargers	\$15M		
	Electrified transport and	Build out public DC FAST and L2 charging throughout Jacksonville	\$304M		
	facilities	Own and operate bus charging infrastructure for Jacksonville's city and public school fleets	\$95M		
	Core		Build an L2 home charger installation business		<\$1M
Growth Oppor- tunities	DG solar and storage	5 Electrify the Port of Jacksonville	\$35M		
		6 Install, maintain and dispatch residential storage	\$31M		
	Energy efficiency	7 Build a C&I DG solar design, development, and installation	· 	\$12M	
		business District "smart polos" to anable powermant city use agrees	¢2004	Ψ12111	
		Install "smart poles" to enable new smart city use cases	\$200M		

Detail follows. Initiatives with regulated capital deployment generate earnings via the regulated rate base. Initiatives with unregulated margins do not contribute to the rate base Refer to the Respondent Financial Model for required rate of return



JEA's strengths provide a foundation to drive further growth and economic development in Duval County

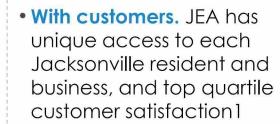
DRAFT - ALL CONTENTS SUBJECT TO CHANGE



JEA's intrinsic assets

- Robust infrastructure. JEA owns and manages energy and water networks directly related to major policy decisions and customer trends
- Skilled workforce. JEA has a capable, trained workforce active in the construction and management of critical infrastructure
- Relatively large footprint.
 Jacksonville is the largest city within a 100-mile radius, providing JEA a significantly larger customer base and greater sophistication than nearby peers

JEA's relationships



- With the Jacksonville community. JEA is a known community entity that has contributed over \$1B to the City of Jacksonville in the last decade
- Throughout Northeast Florida.
 JEA has long-standing,
 trusted relationships with
 nearby municipal utilities
 share a similar operating
 "DNA" as JEA

Jacksonville's distinctive characteristics



- High-growth MSA.
 Jacksonville is a growing,
 business-friendly community
- Commercial hub. The Port of Jacksonville supports \$30B in annual economic output, serving 70M+ consumers within a one-day drive
- Magnet for educated
 Floridians. Home to several
 Florida universities, and a
 major hub where Florida
 students relocate after
 graduation

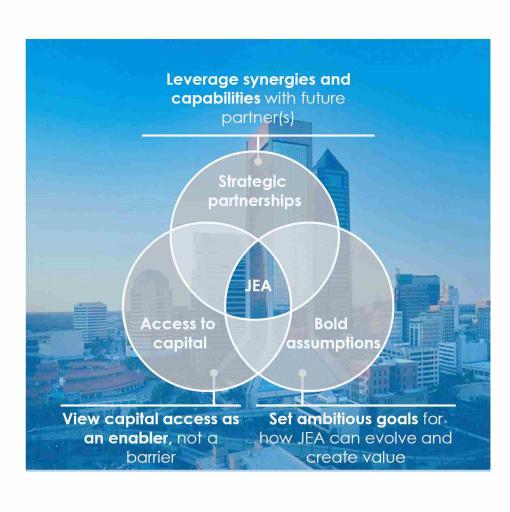
1 As rated by JD Power SOURCE: JAXPORT, JEA Invitation to Negotiate



Additional growth opportunities harness market trends to build ambitious businesses at a larger geographic and commercial scale

Additional growth opportunities are outside of the core utility construct...

...and involve building a well-balanced set of dynamic, high value businesses operating beyond JEA's service territory





Increase JEA's water footprint via acquisition, using its top quartile operational performance and capabilities to provide more efficient, affordable services across Florida



Substantially grow JEA's customer base for the District Energy System by executing the Lot J development and the larger master plan, with over 4 million of concentrated development



Increase dark fiber leasing as JEA invests in its digital communications network to ensure it can provide the speed and capacity needed by new, distributed smart assets at the grid edge



Monetize SJRPP and other owned land parcels for new development projects, such as a liquefied natural gas facility, dedicated port or rail facility, large data center with back-up generation, or new generation facility (already permitted)



Become the premier future solutions homes supplier in Florida, providing resource efficient, optimized ecosystems of products and services for homes and communities



STRATEGIC INITIATIVES - ADDITIONAL GROWTH OPPORTUNITIES

Additional growth opportunities not reflected in Respondent Financial Model

Additional Growth Opportunities:

A Water System Opportunities

 Financial projections do not consider the potential upside from expansion of the Water and Wastewater System through local water utility system acquisitions, similar to the near-term opportunity presented by the current Mayport Naval Station RFP contemplating transfer of ownership and management of its of the wastewater utility system

B District Energy Expansion Opportunities

 Financial projections do not reflect the potential to add additional customers as a part of the Lot J development and the larger master plan that encompasses over 4 million square feet of concentrated development

Dark Fiber Growth Opportunities

- Financial projections do not include further monetization of excess capacity of JEA's fiber-optic network through 3rd party leases
- Proliferation of smart, distributed devices will likely require increases in network capacity and speed, supporting expansion of the fiber-optic network

Owned Land Opportunities

- Financial projections do not capture potential to monetize JEA's land and other owned land parcels for the following potential uses:
 - Liquefied Natural Gas Facility

- o Dedicated Port and/or Rail Facility
- o Large Wholesale Data Center with dedicated generation
- New Generation Facility (Currently Permitted)

E Emerging Future Homes Opportunities

- Financial projections do not include opportunities to participate in the emerging Future Homes market
- JEA's deep expertise in the engineering, management, and maintenance of energy and water systems would be valuable to many potential partners seeking to develop integrated home solutions for resilience, resource efficiency, and automation/control



Financial projections do not account for numerous tangible sources of potential upside

Detail to follow

About this document

An overview of the approach and guidelines to JEA's strategy development

Strategic aspirations for JEA

2030 Vision for JEA across strategic pillars (customer, environmental, community, financial), with metrics outlined for each pillar; summary of how strategic initiatives will achieve financial and non-financial metrics

Operational improvements

Redesign of JEA's operating practices to achieve top-quartile performance as measured against JEA's peer set

Strategic capital investments

Investments in traditional utility infrastructure to deliver new outcomes and benefits to our customers (e.g. customer resiliency, grid flexibility and customer choice, clean and sustainable, etc.)

Core growth opportunities

Investments in new growth businesses core to the utility model: transport electrification, energy efficiency, distributed generation

Additional growth opportunities

Additional growth initiatives that position JEA as a growth platform that are currently not included in the financial projections

Next steps

Next steps to build capabilities and execute strategy

Appendix 1: Initiative charters and supporting analyses

Further detail on the strategic and financial objectives for each new initiative

Appendix 2: Next steps on implementation

Critical next steps to drive implementation of the strategic plan

Appendix 3: Organizational health initiatives

Actions JEA will undertake to improve its organizational health

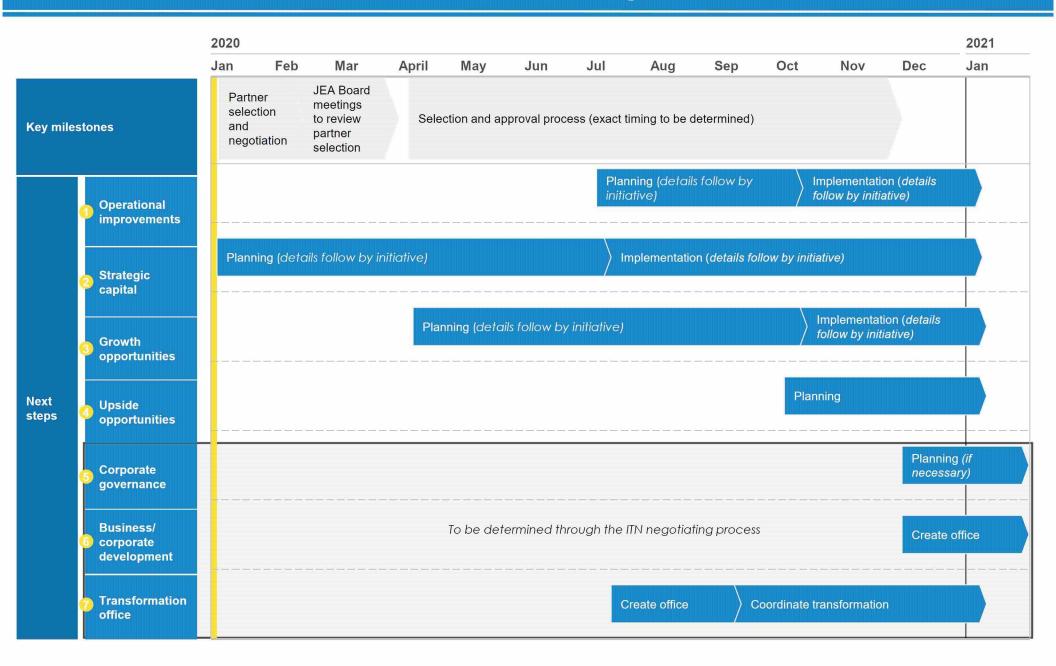








Potential timeline to prepare JEA for strategy execution





There are 5 key capabilities that are needed across initiatives

1



Centralized project management support resources with clear roles and responsibilities that define and manage large strategic projects, especially cross-functional

3



Additional resources with technical expertise in new areas of technology (e.g., assets used in grid flexibility, solar, etc.)

5



Regulatory resources that can develop and articulate compelling strategies that support the goals of JEA and its customers (e.g., cost recovery mechanisms for septic tanks, transport electrification investments)

2



Create a business development function that can successfully identify and take to market innovative products and services

4



Larger, centralized pool of digital and analytics talent, matrixed to key business functions that can support dashboarding, analytics and modeling, and development of new tools (e.g., inventory optimization, setting mins/maxes)

JEA's organizational health scores in the bottom quartile compared to the OHI global database

Peer Group Difference: Significantly Stronger Comparable Significantly Weaker Significantly Weaker

JEA's overall health score is in the bottom quartile...¹ Top Decile

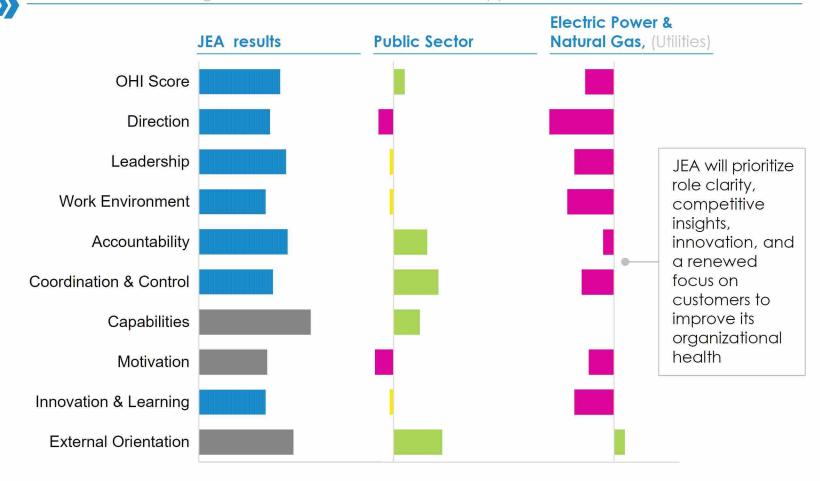
Second

Quartile

...and when compared to other groups with lower scores, JEA still scores low – including against other utilities

Percentage of respondents who selected 'agree' or 'strongly agree'

Difference between organization and benchmark median, pp



1 The global database includes nearly 900 organizations across industries and geographies that have completed the OHI in the last 5 years SOURCE: JEA (n=1685); Organizational Health Index Global Database

Detail to follow

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1) Generation Initiatives

Internal labor Contracts Materials Management 2018 addressable spend baseline and Case savings Initiative Description description, \$M **Context for Management Case** target Institute performance tracking of heat Fuels and Includes specific heat rate savings 4% rate to reduce variability and controllable other from Brandy Branch based on **Improve** losses consumtesting since SQ1 projection generation ables Improve technical performance (e.g., efficiency to · Incremental heat rate improv. based 421² clean HRSG, install better air inlet filter) on Generation team assessment of reduce remaining opportunity Reduce limestone usage by installing consumption of fuels, other new crush and burn system Annual materials savings from consumables second limestone crusher based on Generation business case · Based on positions identified by Increase crew productivity by 8% Internal 43 improving core work processes (e.g., labor, 3rd Generation leadership that can be planning and scheduling) and increasing phased out over the next two years party "wrench time" for core workflows, e.g.: services **Frontline** Break-ins (e.g., bearing failures) operational - PMs (e.g., oil replacement) excellence · Optimize resourcing and schedules of craft across shifts to match volume of work with resources Outsource fuel handling services to Fuels labor *3 Based on top-down assessment by cost-competitive third-party providers Generation team Lower fuel handling expenses

3 Savings opportunity estimate provided directly by business



1 Generation Initiatives (cont'd)



Internal labor



Contracts



Materials

Initiative

Description

- Reduce demand for third-party materials and services by applying stricter purchasing controls and standardizing material request submissions, e.g.:
 - Reducing frequency of use (e.g., cleaning services)
 - Revising specifications (e.g., using non-OEM vs. OEM parts for equipment with lapsed warranties)
 - Insourcing work, when possible

2018 addressable spend baseline and description, \$M





3rd party

13

Management Case savings target

5%

Context for Management Case

 Extrapolated from existing noregrets initiatives to reduce spend (e.g., Spend Control Tower, Pcard scrub)

Demand management

Negotiate lower commercial rates for materials and services by:

- Introducing new providers to increase competition (e.g., staff augmentation labor during outages)
- Expanding supplier performance management systems and methodologies (e.g., on-time delivery, measuring time to complete jobs)
- Leveraging additional flexibility as a non-governmental entity (e.g., outsource engineering, flexibility to discontinue vendors without multiple notices)



3rd party materials and services



10%

 Assumes JEA's small purchasing power will limit some of the opportunity created by removing current procurement requirements



Strategic sourcing Led by Supply Chain¹

1 T&D Initiatives

2018 addressable spend Management baseline and description, Case savings Initiative Description **Context for Management Case** target · Increase crew productivity by improving core Internal labor. 5% • T&D operations team believes there is limited work processes (e.g., planning and scheduling) third-party non-digital opportunity Frontline and increasing wrench time) services1 operational - All jobs are work ready excellence - Morning kickoffs start on time - Daily debriefs and feedback on opportunities · Further optimize processes, building off the Internal labor, 10% • T&D operations team believes there is more improvements from frontline operational excellence third-party upside with digital tools, particularly assuming by applying a series of digital tools that further services1 deployment of a new WMS increase productivity, improve customer experience, and maintain safety, e.g.: Digitalize frontline operations - Improve planning and scheduling by accounting for site conditions, real-time crew locations - Automate clerical tasks (e.g., dig requests, time sheets) - Enable digital collection of asset condition data · Reduce demand for third-party materials by 10% · Target for materials set based on perspective Materials applying stricter purchasing controls and of the T&D operations team that there is standardizing material request submissions: considerable upside **Demand** - Reducing amount or frequency of use (e.g., management address leakage) - Revising specifications (e.g., streamlining

Internal labor

Contracts

Materials

Does not include third-party services spend on vegetation management;
 Source: JEA financial statements, 2018 budget, and senior team initiative development

transformer specifications)

1 T&D Initiatives (cont'd)



Management

Case savings

target



Contracts



Materials

Initiative

Vegetation management

Description

- · Improve procurement process, bid packages, and bidding practices; implement performance management (e.g., miles trimmed by crew per day)
- Optimize long-term cycle planning and work management through machine learning that identifies highest areas of need relative to system priority and risk
- · Improve quality assurance process and in-thefield forester audits

2018 addressable spend baseline and description,



Contracted vegetation manage-ment 5%

5%

Context for Management Case

· Concerns about speed of vegetation growth, severity of storms, and public opposition to increasing the cut margin during trim cycles

- Negotiate lower commercial rates for materials and services by:
 - Introducing new providers to increase competition (e.g., staff augmentation labor during outages)
 - Expanding supplier performance management systems and methodologies (e.g., on-time delivery, measuring time to complete jobs)
 - Leveraging additional flexibility as a nongovernmental entity (e.g., outsource engineering, flexibility to discontinue vendors without multiple notices)



3rd party materials and services

 Unique voltage level of T&D system and small purchasing power

Strategic sourcing

Led by Supply Chain¹

1 The strategic sourcing initiative is centrally managed, but cuts across generation, T&D, water & wastewater, customer, and G&A spend areas Source: JEA financial statements, 2018 budget, and senior team initiative development



Overview of energy savings

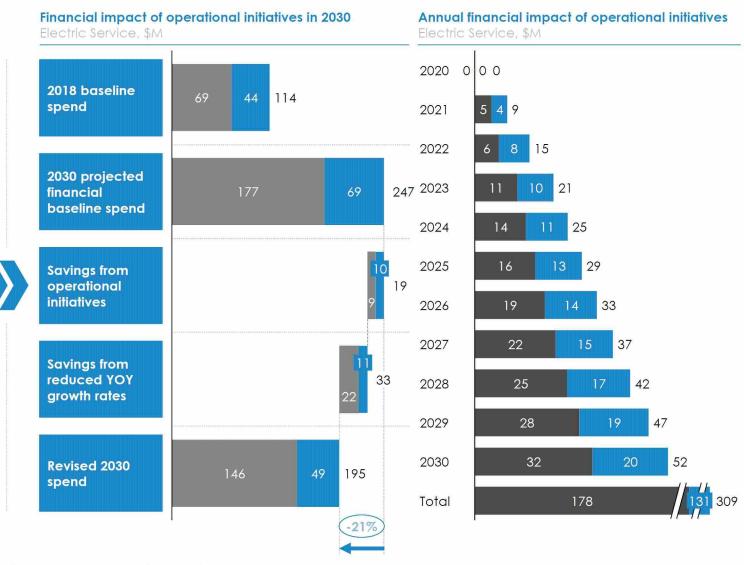
Internal Labor Non-Labor

Methodology

- 1. Begin with the baseline financial projections projection for O&M1
- 2. Phase in initiative savings through 2025
- 3. Apply lower projected growth for labor/benefits and materials/services relative to baseline financial projections²

Savings do not include

 Fuel account savinas from site-led initiatives





Water & Wastewater Initiatives

Internal labor Contracts Materials 2018 addressable spend Management baseline and description, Case savings Initiative Description target **Context for Management Case** · Increase crew productivity by improving core Water and 15% · Many best practices are already in effect work processes (e.g., planning and scheduling) wastewater (e.g., hotspot jetting) and increasing "wrench time," e.g.: field · Six sigma effort in early stages of intervention personnel All jobs are work ready and expected to yield short-term (incl. pump improvements Morning kick-offs start on-time Frontline operational stations) Significant upside through new digital tools to Daily debriefs and feedback on opportunities) excellence optimize work planning and deployment Develop sludge disposal "cost curves" to pursue least-cost options on a week-to-week basis 10% Some incremental opportunity, particularly at Further optimize processes, building off the Labor at improvements from frontline operational excellence wastewater plants with larger footprints by applying a series of digital tools that further treatment increase productivity, improve customer sites Digitalize frontline experience, and maintain safety, e.g.: operations - Leverage equipment sensors to reduce the (wastewater need for manual inspection treatment) Use machine learning algorithms to drive predictive and condition-based maintenance Improve planning and scheduling by accounting for job type, crew locations, etc. Labor at 5% · Most recommended practices are already in Digitalize frontline effect (e.g., consolidated control room) with water operations (water treatment limited ability to capture incremental savings treatment) off small labor pool sites

Source: JEA financial statements, 2018 budget, and senior team initiative development



Water & Wastewater Initiatives (cont'd)



Internal labor



Contracts



Materials

Initiative

Reduce auxiliary load

Demand management

Description

and services by:

Reduce pumping costs by optimizing pumping cycles to ensure pump stations do not work against each other (i.e., reduce electricity consumption)

2018 addressable spend baseline and description,

Utility charges

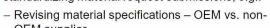
Management Case savings target

5%

Context for Management Case

 No current capabilities to intelligently manage pumping cycles to optimize electricity use

Reduce demand for third-party materials by applying stricter purchasing controls and standardizing material request submissions, e.g.:



- **OEM** supplier
- Purchasing through wholesale channels (i.e., bulk) vs. purchasing at local retailers (e.g., Home Depot)



Materials

5%

 Significant opportunity to optimize channel (e.g., reduce unnecessary retail purchases)

Negotiate lower commercial rates for materials

- Introducing new providers to increase competition (e.g., staff augmentation labor during outages)
- Expanding supplier performance management systems and methodologies (e.g., on-time delivery, measuring time to complete jobs)
- Leveraging additional flexibility as a nongovernmental entity (e.g., outsource engineering, flexibility to discontinue vendors without multiple notices)



3rd party services materials



10%

 Assumes JEA's small purchasing power will limit some of the opportunity created by removing current procurement requirements

Strategic sourcing²

2 The strategic sourcing initiative is centrally managed, but cuts across generation, T&D, water & wastewater, customer, and G&A spend areas



Overview of water & wastewater savings

Water Service, \$M

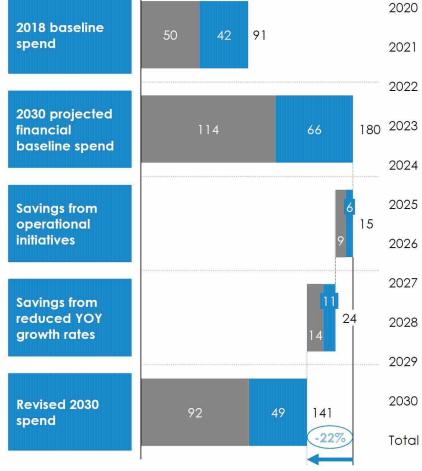
Financial impact of operational initiatives in 2030

Internal Labor Non-Labor

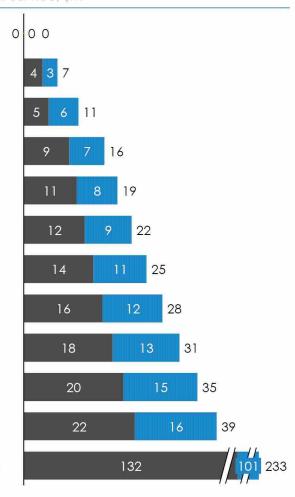
Methodology

- 1. Begin with the baseline financial projections projection for O&M1
- 2. Phase in initiative savings through 2025
- 3. Apply lower projected growth for labor/benefits and materials/services relative to baseline financial projections²





Annual financial impact of operational initiatives Water Service, \$M



² Baseline financial projections assumed annual increases of 5% for salaries and OT, 6% for benefits, and 4% for materials; the unconstrained strategy assumes annual increases of 3.5% for salaries, 3% for OT



1 Customer Initiatives



Internal labor



Contracts



Materials

Initiative

Description

- Increase frontline (e.g., call center agents, meter team) productivity by:
 - Optimizing capacity and skill-based routing, cross-skilling of agents, and improved scheduling that matches call volumes
 - Conducting people analytics, leveraging data to unlock further improvements to availability, average handle time, and first call resolution through directed coaching and realtime speaking guidance

2018 addressable spend baseline and description,



All labor and 3rd party services

Management Case savings target

5%

Context for Management Case

- Benchmarking indicated call centers are performing in the top quartile relative to other utilities
- Perspective of the Customer team is that there is limited non-digital opportunity

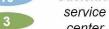
Digitize customer journeys

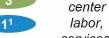
Frontline operational

excellence

- Shift customers to digital self-service by creating simple, intuitive web and appbased solutions for key journeys, e.g.:
 - Bill payment
 - Sign-up-and-move
 - Experience an outage







services. and postage 20%

- Significant opportunity to shift customers to digital self-service with high potential for success
- Established business models and approaches from within and beyond the utility industry
- Limited progress to-date capturing the opportunity

Deploy automation

- Contain IVR calls by analyzing reasons for leakage and adjusting IVR flow and logic
- **Utilize Robotic Process Automation to** eliminate repetitive tasks (e.g., complex, manual billing) and natural language processing to standardize data extraction (e.g., from recorded IVR calls)



Revenue team (labor, services)

Customer

10%

Conservative assessment of activities that could be rapidly automated within the Finance group. Considerable upside potential over the 10-year window



1 Customer Initiatives (cont'd)



Internal labor



Contracts



Materials

Initiative

Demand management

Description

- Reduce need for meter reads through digital smart meters and billing quality control
- Enhance routing based on crew location and skillsets

2018 addressable spend baseline and description,



Meters team (labor. services)

Management Case savings target

15%

Context for Management Case

- Leverage same digital field force tools developed for water and T&D
- Significant share of truck rolls due to billing errors that can be reduced through automated solutions
- Additional impact from further penetration of smart meters

Strategic sourcing Led by Supply Chain¹

- Negotiate lower commercial rates for materials and services by:
 - Introducing new providers to increase competition (e.g., staff augmentation labor during outages)
 - Expanding supplier performance management systems and methodologies (e.g., on-time delivery, measuring time to complete jobs)
 - Leveraging additional flexibility as a nongovernmental entity (e.g., outsource engineering, flexibility to discontinue vendors without multiple notices)



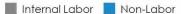
3rd party services. materials 10%

 Assumes JEA's small purchasing power will limit some of the opportunity created by removing current procurement requirements

1 The strategic sourcing initiative is centrally managed, but cuts across generation, T&D, water & wastewater, customer, and G&A spend areas



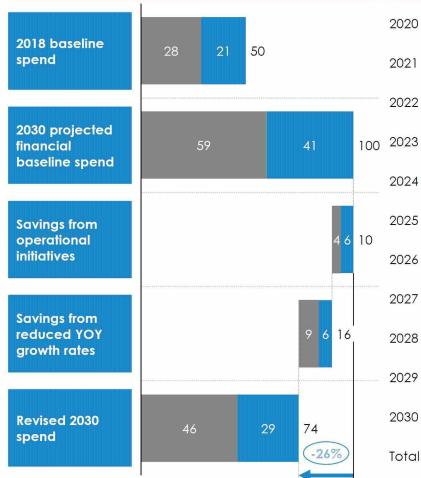
Overview of customer savings



Methodology

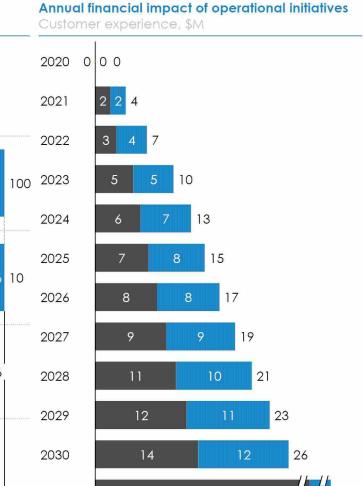
- 1. Begin with the baseline financial projections projection for O&M1
- 2. Phase in initiative savings through 2025
- 3. Apply lower projected growth for labor/benefits and materials/services relative to baseline financial projections²





Financial impact of operational initiatives in 2030

Customer experience, \$M



78



² Baseline financial projections assumed annual increases of 5% for salaries and OT, 6% for benefits, and 4% for materials; the unconstrained strategy assumes annual increases of 3.5% for salaries, 3% for OT

1 G&A Initiatives

2018 addressable Management Case savings spend baseline and Initiative Description description, \$M **Context for Management Case** target Remove organizational complexity (i.e., 5% Opportunity to reassess roles and Compliance, optimize spans and layers) and overlapping responsibilities under new ownership Environmental roles to ensure JEA employees are staffed structure Finance, HR and tasked to support the appropriate Limited standardization across **Maximize** strategic priorities corporate operations in current state organizational Redesign, standardize, and harmonize effectiveness the way work is delivered and managed by incorporating lean best practices & performance management into daily operations Automate low-value activity through Compliance, 10% Highly commoditized, off-the-shelf smart workflows and robotic process Environmental, solutions with proven value case for automation (RPA) to handle tasks such as finance and HR workflows Finance, HR **Deploy** data entry and reconciliation Significant time invested in low-value automation Create digital journeys (e.g., workarounds to digital systems onboarding/offboarding) that improve employee experience while reducing costs 34% Bottoms-up business case developed Strategically address delivery options to: Technology Become more cost competitive; internal labor and Free resources from current state contracted operations to focus on strategic TS service labor1 priorities and establish workforce delivery capacity, both in scale and skills; and transformation Improve quality through engagement of select partners

1 Excludes internal labor from the application development and administrative teams Source: JEA financial statements, 2018 budget, and senior team initiative development

2 Represents cumulative savings vs. the 10-year baseline financial projections baseline

Internal labor

Contracts

Materials



1 G&A Initiatives (cont'd)



Internal labor



Contracts



Materials

Initiative

Advanced supply chain

Description

- Redesign warehouse layout to reduce unnecessary walking, unnecessary replenishment, and double-handling of items
- Automate inventory level management through integration to the work management system to optimize supply levels and dispatch to work sites

2018 addressable spend baseline and description, \$M



Supply chain labor 15%

target

Management

Case savings

Context for Management Case

 Limited prior efforts to optimize efficiency of supply chain personnel

Demand management

- Reduce amount or frequency of use for materials and services (e.g., reduce fleet mileage, eliminate low-value tasks)
- Optimizing scope of work to maintain focus on high-value requirements
- In-source work to JEA employees



10

3rd party services (excluding

TS, A&G other) and materials

5%

Primarily service contracts; high costs of JEA G&A personnel relative to contractors limit ability to eliminate demand

Strategic sourcing **Led by Supply** Chain²

- Negotiate lower commercial rates for materials and services by:
 - Become more cost competitive;
 - Free resources from current state operations to focus on strategic priorities and establish workforce capacity, both in scale and skills; and
 - Improve quality through engagement of select partners



10

3rd party services (excluding TS, A&G other) and materials

15%

Significant opportunity for commercial rate negotiations relative to other business units based on procurement team's assessment

2 The strategic sourcing initiative is centrally managed, but cuts across generation, T&D, water & wastewater, customer, and G&A spend areas



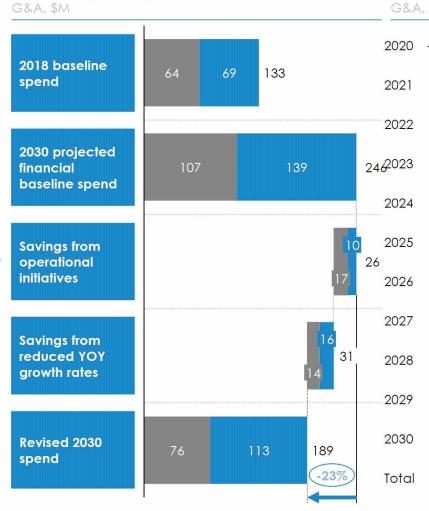
Summary of G&A savings



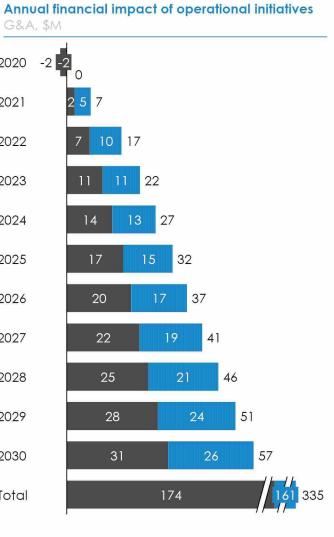
Methodology

- 1. Begin with the baseline financial projections projection for O&M1
- 2. Phase in initiative savings through 2025
- 3. Apply lower projected growth for labor/benefits and materials/services relative to baseline financial projections²





Financial impact of operational initiatives in 2030





² Baseline financial projections assumed annual increases of 5% for salaries and OT, 6% for benefits, and 4% for materials; the unconstrained strategy assumes annual increases of 3.5% for salaries, 3% for OT





A Subset of capital investment opportunities are included as part of the 2 2030 Strategy; entire opportunity could be substantially larger

	Initiative	Potential sub-investments What's included in the Respondent Financial Model Management Case and Management Case under Scenario	A
A	System resiliency	 Overhead-to-underground conversions of JEA's at-risk distribution feeders and laterals (all phases) Microgrids (e.g., RICE engines, batteries, controllers) Feeder and substation hardening measures (e.g., floodgates, elevation, etc.) Targeted water system measures (e.g., effluent pipe lining, back-up power at pump stations) Grid hardening investment over 10 years, based on scaling other utilities' programmatic hardening investments to JEA's system Portfolio of water resiliency projects over 10 years, built on ~\$30M identified projects for Buckman, Monterey, Cedar Bay, and Arlington East; assume ~\$20M of small incremental projects 	of
В	Grid flexibility	 Deployment of advanced VVO (e.g., capacitor banks, regulators, etc.) Conversion of 4kV feeders Deployment of line sensors onto UG feeders (e.g., FCIs) Modernization of relay packages (e.g., electromechanical to microprocessor-based) Expanded communications infrastructure (e.g. fiber, wireless) Implementation of ADMS and DERMS with advanced functionalities (e.g., automated load shedding, FLISR, etc.) Portfolio of grid flexibility solutions to manage intermittent supply and demand from new DER (e.g., solar, electric vehicles, etc.), scaled based on investment programs announced at: HECO: \$205M of programmatic investment over 6 years (~\$35M yr for 460K customers, similar size to JEA) in-line sensors, advanced switches and advanced operating systems SCE: ~\$1,500M of programmatic investment over 5 years (~300M annualized for 5M customers, or ~\$30M / yr scaled to JEA) in distribution automation, digital communications infrastructure, and advanced technology platforms (e.g., ADMS) 	
C	Advanced asset management (1)	 Deployment of equipment health sensors on substation transformers, battery banks, circuit breakers Structured, flexible data lake, 3-4 initial use cases to build the analytics capability, and programmatic in-house use-case development thereafter New WMS replacement Investment budget for technology investments, which need to be prioritized based on the functionalities and use cases that create the most value for JEA's system 	
D	Septic tank phase- outs	 Phase-out of 65K septic tank systems, assuming that JEA is able to develop innovative solutions that cost less than a traditional gravity system Capital to phase out the 22K high-priority locations with failing systems by 2030 with distributed treatment systems 	
E	Alternative water supply	 Construction of 40 MGD of treatment and purification capacity Capital to support development of 2 of 4 facilities by 2030; support across 4 different facilities 	5
	Note:	xx \$M of total capital (2) xx \$M of capital included in the Respondent Financial Model Management Case and Management Case Under Scenario	4

^{1.} Advanced asset management investments (e.g., data and analytics platforms) can support both electric and water businesses (e.g., prédictive maintenance strategies, crew routing and dispatching). A greater share of the required capital identified to date is related to the electric business (e.g., transformer monitoring solutions, new WMS), so the capital associated with advanced asset management (\$70M) has been fully allocated to the electric business in the Respondent Financial model as a simplifying assumption

^{2.} Rounded to the nearest \$5M



2A System resiliency charter (1/2)



Assumptions



2A System resiliency charter (2/2)



Specific investment opportunities

Targeted water system measures

Hardening measures that enable JEA's water system to continue operating at a high-level during major weather events, including back-up generation, equipment elevation, installation of cut transfer switches, and targeted tree trimming and circuit undergrounding





- Over recent years, JEA has implemented a number of hardening solutions on their system, including installation of remote control VFDs, additional tree trimming near water facilities; undergrounding of electric circuits serving water facilities, and prioritized installation of back-up generators at 90%+ of JEA's facilities
- JEA has completed extensive N-1 planning for its system to ensure sufficient redundancy and capacity in the event individual facilities fail. Significant performance improvements have already been achieved, increasing operational capacity from 150% to 175% and reducing overflow from 11M gallons to 2M gallons¹
- JEA is completing a resiliency assessment and expects to issue a Master Plan in March of 2020, but major incremental investments are unlikely to be required. JEA expects to implement additional measures at four sites in the near future: Monterrey, Arlington, Buckman, and Cedar Bay
- \$50M is a rough estimate for incremental projects to be executed over the next 10 years, pending the completion of the assessment

\$470M **Energy industry** example, scaled to JEA \$460M Water industry example, scaled to JEA

Implementation risk assessment

Capability development

- JEA performs most hardening activities today
- Microgrids, however, are a more nascent technology and may require pilots and partnerships

Time to execution



Most hardening investments can be launched today. Investments will require ongoing programs to bolster the full system over time

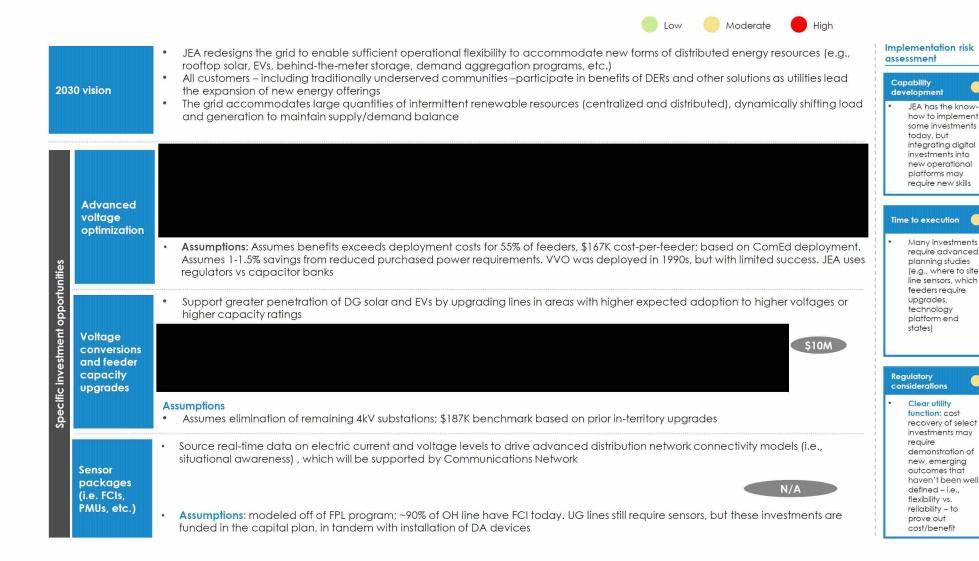
Regulatory considerations



Clear utility function: Florida **PUC** requires storm hardening plans from IOUs due to ongoing threat of severe storms

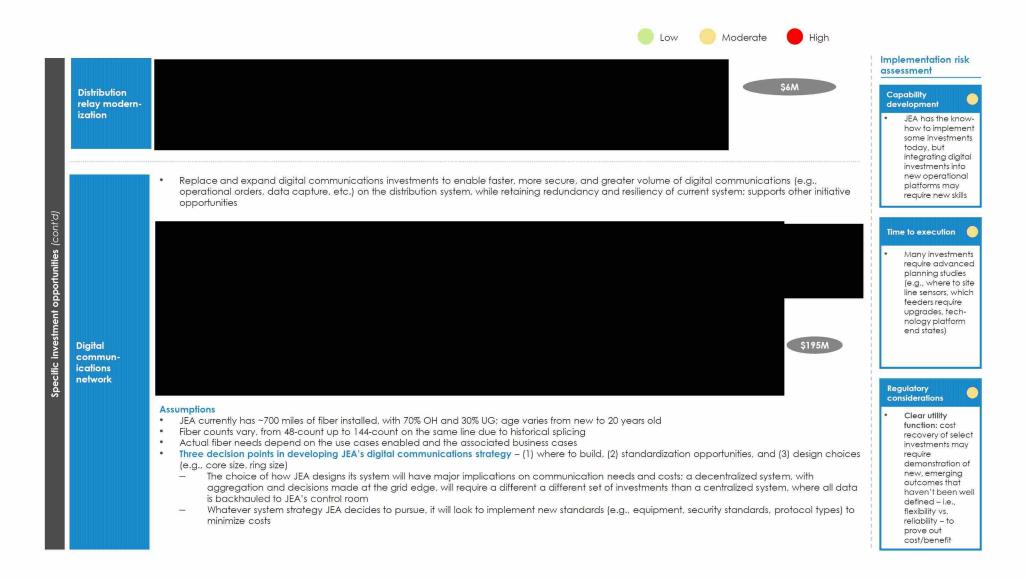


^{2B} Grid flexibility charter (1/3)





^{2B} Grid flexibility charter (2/3)



^{2B} Grid flexibility charter (3/3)



SOURCE: JEA system statistics, data, and analysis; JEA interviews; National Grid GMP

demonstration of new, emerging outcomes that haven't been well defined - i.e., flexibility vs. reliability – to prove out cost/benefit



2C Advanced asset management charter



SOURCE: JEA system statistics, data, and analysis; Greentechmedia



2030 vision

JEA

City

Investments

^{2D} Septic tank phase out charter



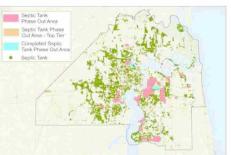
Area

Set the city on a clear path to replace all septic tanks in Duval County

homes in the Septic Tank Phase Out

Septic Tank Phase Out Area Septic Tank Phase Out Area - Top Tier Completed Septic Tank Phase Out A

Septic tanks by area of priority



Implementation risk assessment

Capability development

Moderate



- JEA has conducted considerable analysis of the septic tank challenge and has begun phasing out 1,600 priority septic tanks
- Additional personnel and/or contracted partners would be needed to address scale of full septic phaseout

Time to execution



Significant phaseout possible within the ten year window. Expect long project planning to obtain required approvals from homeowners

Regulatory considerations



- JEA has not identified a viable alternative to gravity sewer connections for impacted septic systems
- Meeting full need would represent a significant increase in capital expenditure that could crowd out other investments or increase pressure on customer rates

JEA will fund and lead the phase out of all 22,000 priority septic tanks over the next decade

- Customers will be connected to the least-cost alternative solution (e.g., gravity system, distributed treatment)
- Customers with distributed systems will be charged a fair rate for treatment of their waste
- The City of Jacksonville will fund the replacement of the remaining 43,000 septic tanks
- JEA will provide engineering and construction support to ensure the city can replace all remaining tanks at the lowest price possible

\$1300M

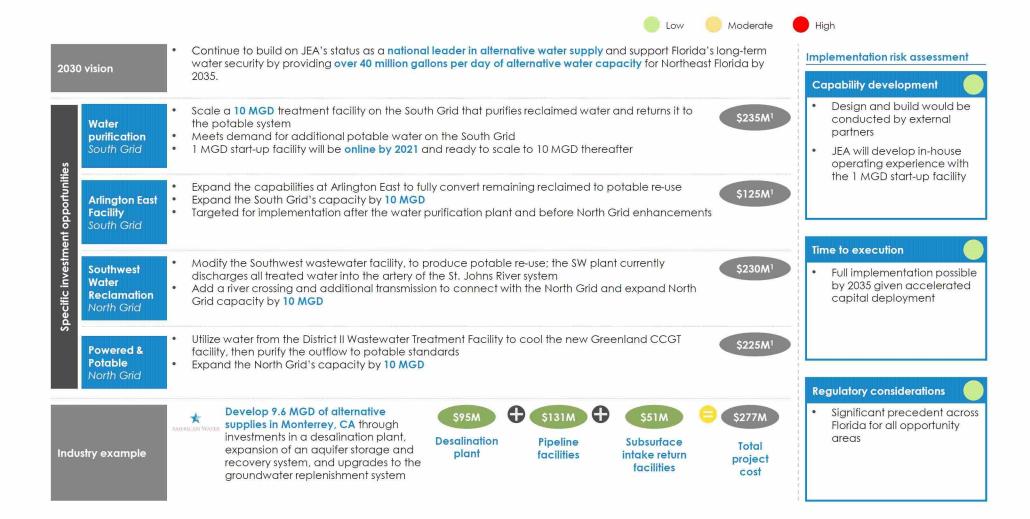
\$440M

\$860M

Total capital



Alternative water supply charter



1 Sizing represents capital opportunity through 2035

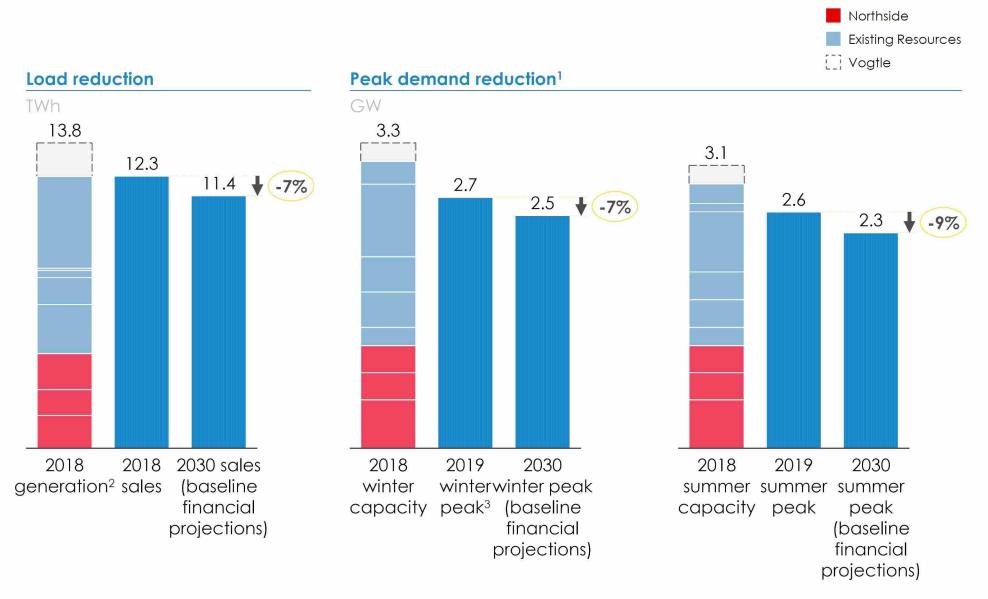


2 Generation portfolio –about the supporting analysis

- The following pages contain strategic analysis JEA completed through its evaluation of whether to replace the Northside generation units with renewables
 - The analyses compare the cost of operating the Northside generation units (as per the baseline financial projections) to the cost of building and operating renewables portfolios under different scenarios
- These are strategic analyses, not operational analyses; JEA will complete additional analysis to convert its strategic decision into a executable implementation plan



2 The 10-year site plan energy and peak demand forecasts were scaled downward to be consistent with the baseline sales forecast



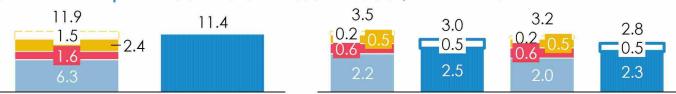
SOURCE: CEMS, EIA, NREL, IRENA, JEA analysis

STRATEGIC INITIATIVES - CAPITAL

2 JEA considered three potential generation pathways that leverage EE/DR and gas + renewables to replace Northside

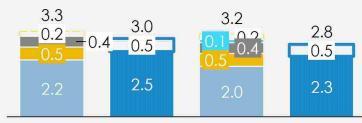


Current Plan: replace NS 3 in 2025 with 500 MW CCGT; maintain NS 1+2









% renewable gen¹





0%

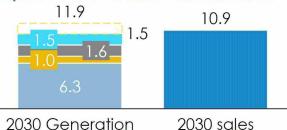
% renewable gen

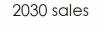


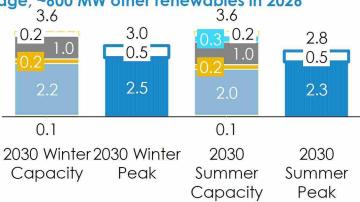




Distributed resources: replace NS 3 in 2025 with DER portfolio and 200 MW CCGT PPA; replace NS 1 + 2 with ~600 MW solar + storage, ~600 MW other renewables in 2026







% renewable gen

Capacity margin



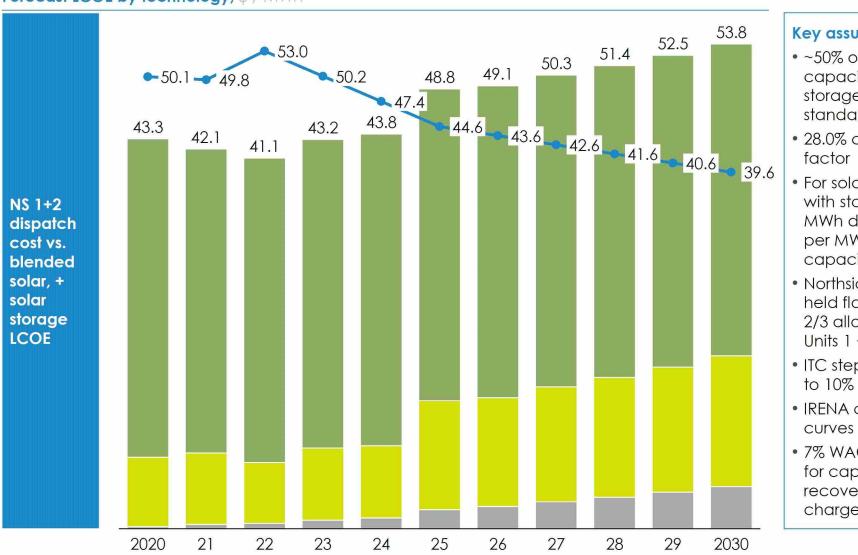
20%

Owned renewable generation capacity, i.e. excludes PPAs SOURCE: CEMS, EIA, NREL, IRENA, JEA analysis

2 Solar plus storage becomes affordable relative to the dispatch cost of Northside in 2025



Forecast LCOE by technology, \$ / MWh

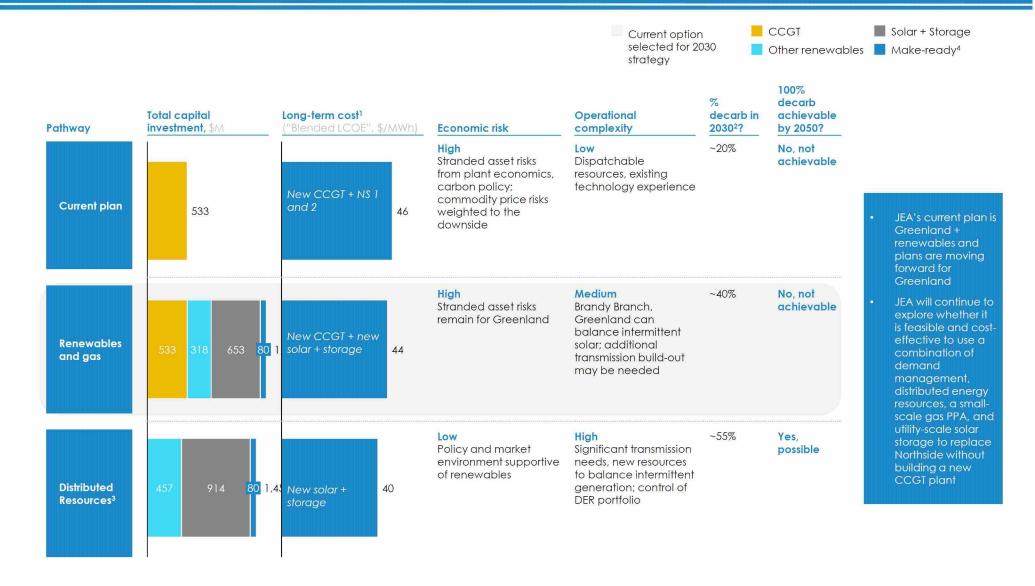


Key assumptions

- ~50% of solar capacity has storage, 50% is standalone
- 28.0% capacity
- For solar paired with storage, 4 MWh duration per MW capacity
- Northside O&M held flat, with 2/3 allocated to Units 1+2
- ITC steps down to 10% in 2022
- IRENA cost
- 7% WACC used for capital recovery charges

SOURCE: IRENA, NREL, JEA, Team Analysis

Pathway 3 has highest operational complexity but lowest longterm costs and stranded asset risks



- Capital and LCOE only reflect new utility-scale resources; DER portfolio costs are not included

SOURCE: CEMS, EIA, JEA, NREL





3 Core growth initiatives were evaluated under three scenarios

Geography

Business

model

Market trajectory

Base case scenario

Within Jacksonville

Catalyzed market scenario

Within Jacksonville

Underserved markets beyond Jax incremental

- Outside of Jacksonville
- Includes Orlando, Tallahassee, and Gainesville municipal utilities

- JEA will execute initiatives within these markets - unregulated or unregulated
- JEA will execute initiatives within these markets - unregulated or unregulated
- Assumes JEA will earn a margin on unregulated services provided to the municipalities, the municipal utilities, and their customers

- Uses Management Response forecasts, assuming no additional market arowth
- Assumes JEA can grow the market beyond Management **Response** forecasts driven by the 2030 growth initiatives
- Assumes market forecasts similar to Jacksonville scaled to muni utility customer count (e.g., % EVs on road, DG solar deployed)
- JEA will leverage existing municipal relationships to boost markets by the same proportion as in Jacksonville

By pursuing core growth businesses, JEA will "catalyze" uptake in Jacksonville beyond base forecasts



Base and "catalyzed" markets through 2030, by relevant metric

How JEA will support and catalyze the growth of the Jacksonville market

Cumulative residential and C&I DG solar and storage adoption, 2020-30 MW



Utility-managed DG programs will spur customers to adopt DG at twice the pre-parity uptake rate, with a modest increase once solar reaches parity

- Utility-run residential DG storage installation and management services – in tandem with education and awareness - drives adoption of DG products, particularly given customers' resiliency concerns
- C&I solar and storage installation supports customers' sustainability goals through a known and trusted entity

Cumulative EV penetration, 2020-30 light duty vehicles, #K



JEA will broaden its vehicle and charger incentive program while building out robust public and private EV charging infrastructure, driving the EV adoption rate to match national levels

- Vehicle and charger incentives alleviate the cost burden of EV ownership
- Public chargers reduce customers' range anxiety, while private charger installation provided by a trusted utility relieves the onus of finding a third-party contractor

Cumulative Residential and Commercial spend on EE appliances, \$M



JEA will not built out the nt Response

JEA will provide customers incentives that earn a utility return on energy saved, supporting the existing market and continuing to build out EE public lighting

 In addition to energy savings, these initiatives will provide ancillary community benefits (e.g., greater public safety, affordability)

3 Core growth businesses – earnings under each scenario

Excluded from "utility growth business" scenario and included in "adjacent growth business" scenario

X Case included in final strategy

X Case excluded from final strategy

Cumulative earnings, 2020-30

Initiative	Management Case	Base case	Catalyzed market scenario	Underserved markets beyond Jax - incremental
3.1 Expand incentives for electric vehicles and chargers	\$5	\$2	\$5	\$-
32 Build out public DC FAST and L2 charging throughout Jacksonville	\$58	\$29	\$58	\$25
Own and operate bus charging infrastructure for Jacksonville's city and public school fleets	\$19	\$19	\$19	\$8
3.4 Build an L2 home charger installation business	<\$ 1	\$0	\$0	\$0
3.5 Electrify the Port of Jacksonville	\$6	\$6	\$6	\$-
3.3 Install, maintain and dispatch residential storage	\$7	\$6	\$7	\$-
37 Build a C&I DG solar design, development, and installation business	\$12	\$3	\$4	\$43
33 Install "smart", efficient streetlights	\$12	\$12	\$12	\$-
TOTAL	\$181	\$136	\$173	\$43

3.1

Expand incentives for electric vehicles and chargers

- Clear existing capability / precedent
- Requires capability building or partnership / lacks precedent

Opportunity summary



- JEA will derive \$5M in regulated earnings from the \$15M in Capex deployed to provide vehicle and charger incentives to customers, as well as to administer the overall program
- This program with the other EV market boosting programs will drive 72GWh of load growth in 2030 by supporting EV market growth throughout Jacksonville beyond the baseline financial projections
- JEA's customer and billing relationships make JEA the most effective platform to provide customers broad, equitable programs that alleviate cost concerns



Market/regulatory precedent

 Some examples exist of utilities earning on charging infrastructure rebates, while rate-base rejections from regulators have also occurred



- Duke has announced a \$76M EV and charging infrastructure pilot program in North Carolina (pending approval)
- \$11M of this program is dedicated to rebates for residential EVs, fleet EVs, and charging infrastructure, as well as education and outreach to drive adoption



- An approved BGE program provides rebates on L2 chargers only
 - \$300 rebate for up to 1,000 residential customers
 - \$25K rebate for up to 700 multi-family property owners

Earnings potential



2020 -

2025





Capabilities required

- Robust Marketing & Sales organization that supports customer sign-up for rebates
- Resourced regulatory team with the ability to make a compelling case to the regulator despite mixed success with approvals from other utilities



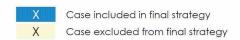
What you need to believe

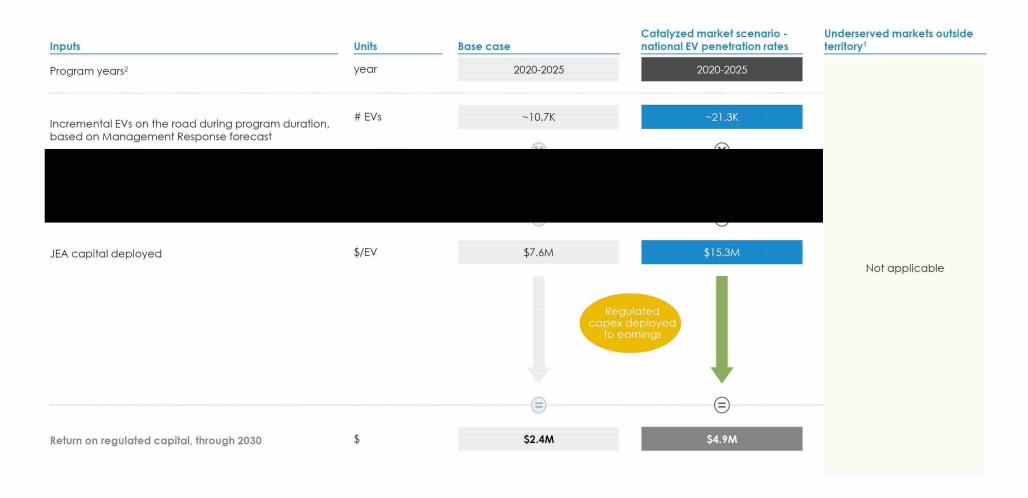
- Regulatory approval for content and scale of program to be able to earn regulated return on capital
- EV forecast will be boosted by this initiative and other EV related initiatives to drive EV penetration in Jacksonville to national levels
- Customers will participate in the program if it is made available to them

1 Assumes EV penetration catalyzed market case due to market stimulation from transport electrification initiatives SOURCE: Company website and press information

3.1

Expand incentives for electric vehicles and chargers



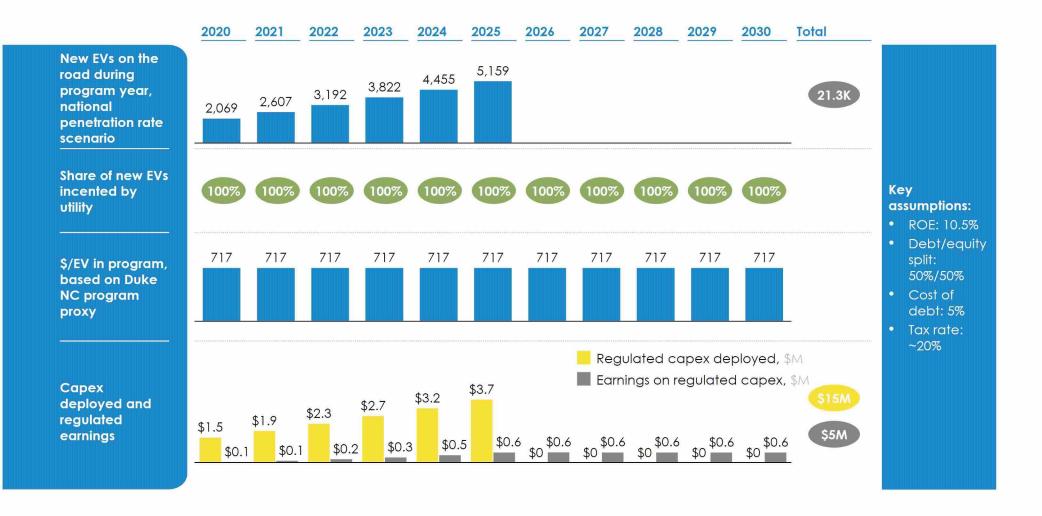


¹ Includes Orlando, Tallahassee, and Gainesville municipal utilities; 2 Includes Florida market minus FPL, Duke Energy FL, Jacksonville, and 3 neighboring municipal utilities 3 Assumes JEA can rate base a program to stimulate EV deployment significant cost reduction become primary driver for deployment rather than programs and incentives

SOURCE: Duke NC Electric Transportation Pilot filing to the NC Utilities Commission (March 2019); EIA; FPL SEC filings; External experts; Team analysis



Expand incentives for electric vehicles and chargers



SOURCE: Team analysis

322 Build out public DC FAST and L2 charging throughout Jacksonville

- Clear existing capability / precedent
- Requires capability building or partnership / lacks precedent

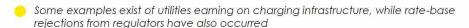
Opportunity summary



- JEA will derive \$58M in regulated earnings from the \$302M in Capex deployed to install and maintain public L2 and DC Fast chargers
- This program with the other EV market boosting programs will drive 72GWh of load growth in 2030 by supporting EV market growth throughout Jacksonville beyond the baseline financial projections
- · With access to capital, JEA can coordinate and build out the largescale infrastructure required to support the Jacksonville EV market
- Expansive, utility-run deployment can alleviate customers' range anxiety, supporting EV adoption within Jacksonville and the region



Market/regulatory precedent





- Duke has announced a \$76M EV and charging infrastructure pilot program in North Carolina (pending approval)
 - Includes ~\$37M over 3 years for utility owned and operated charging infrastructure deployment



- BGE will launch its EV charging network in Maryland by fall 2019. including 500 owned Level 2 smart chargers or DC fast chargers
- BGE was approved to build out infrastructure for 16% of the expected EV fleet on the road in 2030
- BGE's charging rates will be comparable to other public charging options



-chargepoint - Chargepoint has an integrated portfolio of charging hardware, cloud services, and support offerings for EV owners and lessees

Earnings potential



Timing considerations







Earnings breakout



Return on regulated capital, through 2030



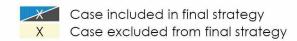
What it takes to succeed

- Ability to deploy more complicated FAST DC charging quickly and in line with customer need, through in-house installation or through contractor management
- Servicing capabilities or contractor management for deployed infrastructure
- Advanced geospatial analytics to plan optimal charger placement
- Sophisticated regulatory operation to get approval for charging capex and EV



What you need to believe

- Will obtain regulatory approval for content and scale of program to be able to earn regulated return on capital and to establish EV charging rates
- EV forecast will be boosted by this initiative and other EV related initiatives to drive EV penetration in Jacksonville to national levels
- JEA will capture 85% to 60% of DCFC and 65% to 45% of L2 over the course of 10
- 1 Assumes EV penetration boost case due to market stimulation from transport electrification initiatives full calculation in appendix
- 2 Assumes that the utility will have an 85% share of chargers deployed in 2020 dropping to 60% in 2030 for DCFC and 65% share dropping to 45% from 2020 2030 for L2 chargers as the charging market





1 Includes Orlando, Tallahassee, and Gainesville municipal utilities;

SOURCE: SQ2; Duke NC Electric Transportation Pilot filing to the NC Utilities Commission (March 2019); FPL SEC filings; Interviews with external experts; Team analysis

throughout Jacksonville



3.3

Own and operate bus charging infrastructure for Jacksonville's city and public school bus fleets

- Clear existing capability / precedent
- Requires capability building or partnership / lacks precedent

Opportunity summary



- JEA will derive \$19M in regulated earnings from the \$95M in Capex deployed to design, install, and maintain municipal electric school buses and public transit bus charging infrastructure in partnership with the City and Jacksonville Public Schools
- This program will drive 1.2GWh of load growth per year² and provide an average savings to the city of ~\$25K per year per bus on fuel costs
- JEA is well situated to help the City of Jacksonville "lead by example", facilitating the transition of municipal and school buses. In partnership with a bus provider, JEA will assist with fleet procurement and provide infrastructure installation and management services



Market/regulatory precedent



Limited proven examples exist - ability to earn off of programs unclear

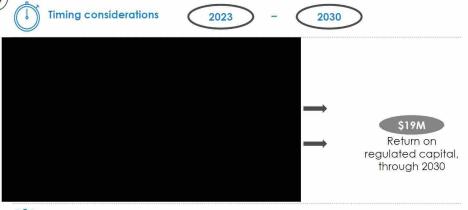


- Duke has announced a \$76M EV and charging infrastructure pilot program in North Carolina (pending approval)
 - \$27M of this program is dedicated to public school and public transportation bus electrification



- Southern California Edison (SCE) rolled out the \$356M Charge Ready Transport program designed to advance the electrification of medium- and heavy-duty vehicles by installing infrastructure to support charging stations at no charge
- Rebates for charging station equipment will also be available to some customers as well, including transit agencies and school bus operators
- The program, which was approved by CA regulators in 2018, will fund installations at 870 commercial customer sites over a fiveyear period, which the utility anticipates will support at least 8,490 fleet vehicles

Earnings potential





What it takes to succeed

- Ability to deploy bus charging quickly and in line with city needs, through inhouse installation or through contractor management
- Servicing capabilities or confractor management for deployed charging infrastructure
- Advanced geospatial analytics to plan optimal bus charger placement
- Sophisticated regulatory operation to make the case for the buildout of the infrastructure buildout



What you need to believe

- The city will select JEA to partner with for the large-scale Capex buildout for electric buses
- Will obtain regulatory approval for content and scale of program to be able to earn regulated return on capital and to establish electric bus charging rates
- The city will choose to deploy 50% of school and transit bus fleets

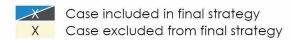
1 Assumes 50% of 220 buses will be electrified and that 1 charger is needed for every electric bu

2 Based on analysis on New York city bus electrification (55MWh/bus) scaled to Jacksonville based or

SOURCE: Company website and press information; Columbia University



333 Own and operate bus charging infrastructure for Jacksonville's city and public school fleets



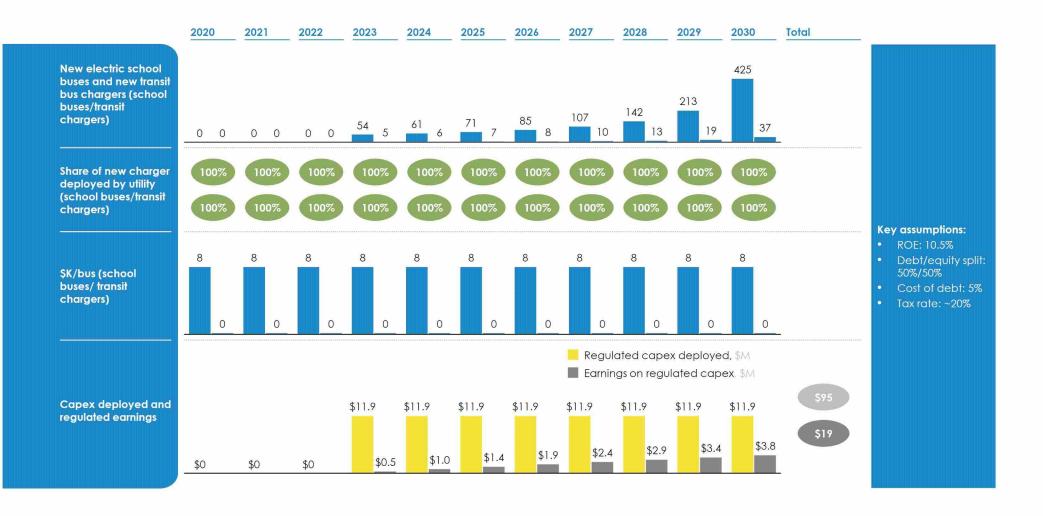
Inputs	Units	Base case	Catalyzed market scenario	Underserved markets outside territory ¹
Program years	year	2023-2030		2025-2030
School buses in Duvall County	# buses	850	porton:	860
Number of JTA transit buses	# buses	220		223
		Ø	Tunner	\otimes
		$oldsymbol{arphi}$		
School bus charging Capex to be deployed through JEA, 2020 -	\$M	\$92.6		\$93.7
School bus charging Capex to be deployed through JEA, 2020 - 2030	\$M	\$92.6		\$93.7
2030		\$92.6		\$93.7
2030	\$M \$M	\$92.6 (=) \$95.4	***************************************	\$93.7 (=) \$96.5
2030		\$92.6 (=) \$95.4		\$93.7
2030 Total capex to be deployed, 2020 - 2030	\$M	\$92.6		\$93.7 (=) \$96.5
2030 Total capex to be deployed, 2020 - 2030		\$92.6 (=) \$95.4 (Regulated		\$93.7 (=) \$96.5 (X) 100%
2030 Fotal capex to be deployed, 2020 - 2030 Market capture outside of JEA territory	\$M %	\$92.6 \$95.4 Regulated capex deployed		\$93.7
2030 Fotal capex to be deployed, 2020 - 2030 Market capture outside of JEA territory	\$M	\$92.6 (=) \$95.4 (Regulated		\$93.7 (=) \$96.5 (X) 100%
2030 Total capex to be deployed, 2020 - 2030 Market capture outside of JEA territory	\$M %	\$92.6 \$95.4 Regulated capex deployed		\$93.7 ———————————————————————————————————
2030 Total capex to be deployed, 2020 - 2030 Market capture outside of JEA territory Average margin, 2020 - 2030	\$M %	\$92.6 \$95.4 Regulated capex deployed		\$93.7
School bus charging Capex to be deployed through JEA, 2020 - 2030 Total capex to be deployed, 2020 - 2030 Market capture outside of JEA territory Average margin, 2020 - 2030 Tax burden	\$M %	\$92.6 \$95.4 Regulated capex deployed		\$93.7
2030 Total capex to be deployed, 2020 - 2030 Market capture outside of JEA territory Average margin, 2020 - 2030	\$M %	\$92.6 \$95.4 Regulated capex deployed		\$93.7
2030 Total capex to be deployed, 2020 - 2030 Market capture outside of JEA territory Average margin, 2020 - 2030 Tax burden	\$M % %	\$92.6 \$95.4 Regulated capex deployed to earnings		\$93.7
2030 Total capex to be deployed, 2020 - 2030 Market capture outside of JEA territory Average margin, 2020 - 2030	\$M %	\$92.6 \$95.4 Regulated capex deployed to earnings		\$93.7 \$96.5 \$100% 10% 20%

1 Include Orlando, Tallahassee, and Gainesville municipal utilities:

SOURCE: Jacksonville Transportation Authority; Duke NC Electric Transportation Pilot filing to the NC Utilities Commission (March 2019); Interviews with external experts; Team analysis



33 Own and operate bus charging infrastructure for Jacksonville's city and public school fleets



3.4 Build an L2 home charger installation business

- Clear existing capability / precedent
- Requires capability building or partnership / lacks precedent

Opportunity summary



- JEA will become the premier entity in Jacksonville to install the ecosystem of private home L2 chargers, earning a 15% margin on installation
- This program with the other EV market boosting programs will drive 72GWh of load growth in 2030 by supporting EV market growth throughout Jacksonville beyond the baseline financial projections
- As a known entity with trusted residential and commercial relationships, JEA is positioned to become an installer of choice for retailers - in both homes and at public nodes on the distribution system – potentially turbocharging the Jacksonville EV market

Earnings potential



Timing considerations







Earnings breakout1

< \$1M

Cumulative earnings, 2020-302



Market/regulatory precedent

No utility precedent exists, but non-utility players are active in the highly fractured market



- Amazon Home Services allows customers to purchase and schedule professional EV charging installation directly on Amazon.com with or without purchase of a charger
- The program is invite only for service providers, and Amazon selects pre-approved service providers in specific areas where the program is offered. Revenue is shared between Amazon and the service providers retain 80% of the service sold while Amazon keeps 20%



What it takes to succeed

- Partnership with major charging retailers to gain customer access in a fragmented, competitive market with commoditized hardware
- Sophisticated regulatory operation to defend building a standalone, competitive business within the utility territory
- Management and organization agility to quickly stand up a new, standalone unregulated business



What you need to believe

- EV forecast will be boosted by this initiative and other EV related initiatives to drive EV penetration in Jacksonville to national levels
- Retailers will select JEA as partner of choice over other providers
- Regulators will allow JEA to operate in unregulated charging businesses while having fully separate regulated businesses
- Ability to capture market in a field that is currently not saturated, but could see a growing presence from incumbent players as EV deployment increases



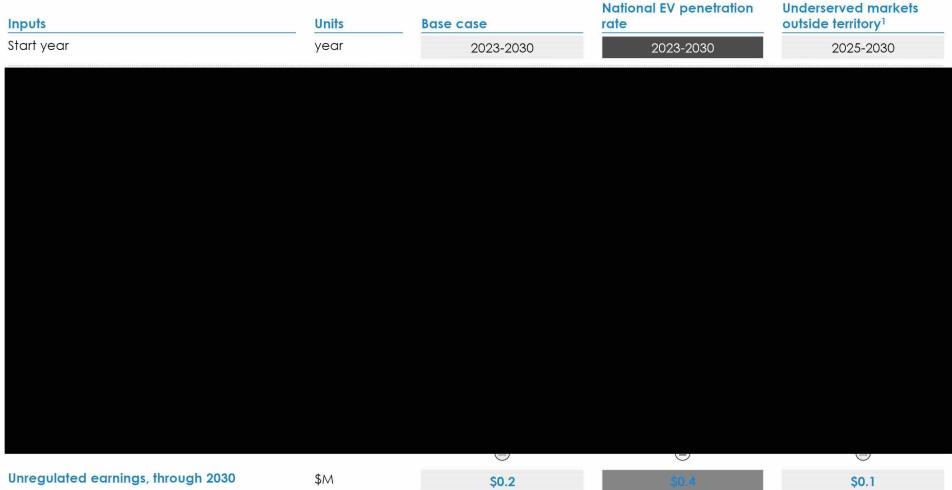
Chargepoint partners with a network of local installers to provide residential and commercial installation

1 Assumes EV penetration boost case due to market stimulation from transport electrification initiatives - full calculation in appendix

3.4 Build an L2 home charger installation business

Case included in final strategy Case excluded from final strategy

Catalyzed market scenario -National EV penetration rate



1 Include Orlando, Tallahassee, and Gainesville municipal utilities: SOURCE: FPL SEC filings: Amazon charger marketplace; Interviews with external experts; Team analysis

3.4 Build an L2 home charger installation business



3.5 Electrify the Port of Jacksonville

- Clear existing capability / precedent
- Requires capability building or partnership / lacks precedent

Opportunity summary



- JEA will derive \$6M in regulated earnings from the \$35M in Capex deployed from an ambitious program to support electrification of port equipment and in-port activities (e.g. cranes and freight carriers)
- JEA has the trained workforce and relationships with Jacksonville institutions to catalyze widespread port facilities electrification, becoming a nationally known leader in port electrification



 Limited proven examples exist outside of California, making ability to earn off of programs unclear







 SoCal Edison contributed \$573 million of regulated capex towards the total spend for LA port electrification



- San Diego Gas & Power driving a suite of public sector, non-road, and other electrification projects:
- Port Electrification: Install 30-40 pieces of equipment to support electric semi-trucks and other medium/heavyduty equipment Airport Electrification: Install up to 45 charging ports to support ~90 new electric ground support equipment at SAN

Earnings potential



Timing considerations



_





Earnings breakout



\$6M

Return on regulated capital, through 2030

What it takes to succeed

- In-house or contractor ability to deploy infrastructure (i.e., non-road electrified cranes and other equipment)
- Partnerships with private stakeholders (e.g., port owner / users) to facilitate technology transition

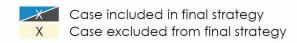


What you need to believe

- Will obtain regulatory approval for content and scale of program to be able to earn regulated return on capital and to establish port electrification program given the economic development that will take place for the city
- Fuel savings for port users will drive technology adoption

SOURCE: Company website and press information

3.5 Electrify the Port of Jacksonville





1 Include Orlando, Tallahassee, and Gainesville municipal utilities; 2 Based on SoCal Edison program spend per TEU infrastructure needed to electrify the entire freight handling system at the Port of Long Beach

SOURCE: SoCal Edison publicly posted materials; Port of LA

3 Includes funds from SoCal Edison for the deployment of the

3.5 Electrify the Port of Jacksonville



program

earnings

\$0.3

\$0.2

\$0 \$0

\$0 \$0

\$0 \$0

3.6 Install, own, and dispatch behind the meter DG storage



Clear existing capability / precedent



Requires capability building or partnership / lacks precedent

Opportunity summary



JEA will derive \$7M in regulated earnings from the \$30.7M in Capex deployed to install and maintain utility-owned behind-the-meter battery storage, "boosting" near-term DG uptake in the pre-cost parity years

- JEA will leverage its current behind the meter relationship with customers to provide affordable storage systems that provide resiliency as storm frequency and intensity increase
- JEA will own and install customers' storage in partnership with hardware producers, charging a monthly fee to participating customers
- JEA can also realize demand management savings from aggregation and dispatch of the distributed batteries



Market/regulatory precedent

Limited utility precedent. Green Mountain Power is one of the only utilities to successfully implement this program, while private players are active in the space



· Green Mountain Power (GMP) & Tesla signed a fixed price contract to design, install, operate and maintain customers' residential batteries for 10 years, at \$7k/yr per device



- · GMP will own and operate the batteries, which makes them a capital expense. Full program costs have been submitted as part of the 2019 rate case
- GMP's revenue requirement is reduced by customer payments and demand charge reductions



- Swell Energy in partnership with AutoGrid is serving clients across the US, including FL
- Swell installs and maintains the battery technology while AutoGrid provides aggregation and operations to offer flexibility to the grid





Program duration



2030

\$7M



What it takes to succeed

- Robust marketing and sales organization with trusted access to customers in order to promote sign-up / buy-in for the storage program
- Procurement capabilities to facilitate build-out hardware. installation, and O&M products and services
- Resourced regulatory team with the ability to make a regulatory case, based on proven utility business models



What you need to believe

- Will obtain regulatory approval for deploying BTM storage that the utility will be able to retain control of to earn a regulated return on capital deployed
- Customers will sign up for the program, where JEA retains ownership and control of the BTM assets in their homes
- The number of customers deploying distributed assets pre-cost parity will be boosted by this type of program offering, and by FL residents' need for resilience and reliability

2 Due to rounding, numbers may not tie 3 Assumes catalyzed market scenario for storage deployment based on the new programs fostering a 4 Average 5kW system cost between 2021-30, based on baseline DG forecasts

3.6 Install, maintain and dispatch residential storage

Case included in final strategy Case excluded from final strategy Catalyzed market -Aggressive pre-cost parity **Underserved markets** adoption outside territory¹ Inputs Units Base case Program duration year 2021-2030 2021-2030 2023-2030 Total customers deploying storage over program # customers 24K 21K 25K years, using Management Response as baseline Tax burden % 20% Earnings on regulated capital, through 2030 \$M \$7.4 \$6.1M Unregulated earnings, through 2030 \$M \$2.5

1 Includes Orlando, Tallahassee, and Gainesville municipal utilities;
2 Battery cost is forecasted at the annual level based on year of expected capital deployment during program duration
3 If outside of JEA territory, JEA can play as an unregulated developer / installer for utilities deploying comparable programs

SOLIPCE: Wood Mackanzie, Greentach Media, EPLISEC fillings: Interviews with external expects; Team analysis.

3.6 Install, maintain and dispatch residential storage



3.7 Build a DG solar installation business for Industrial customers

Clear existing capability / precedent

Requires capability building or partnership / lacks precedent

Opportunity summary



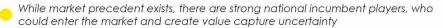
model

Business • JEA will earn a ~15% margin by providing solar design. development, and installation services for C&I customers

- · JEA will help C&I customers achieve their sustainability goals and meet regulatory standards, leveraging its position as a utility poised to both enforce codes and compliance as well as provide "clean" energy solutions
- The unregulated program is set to start in 2022 providing time to build the business outside of current regulated framework



Market/regulatory precedent





- NextEra Energy has a robust unregulated renewable energy business, which offers development services to C&I, utility, and other players
- In 2018 NextEra deployed more than 1GW of wind capacity and nearly 0.5GW of solar capacity in C&I customer PPAs



- DTE Energy founded an unregulated "Power and Industrial" business, which had \$161M in income in 2018
- Provides services to C&I customers, and currently has 217MW of renewables capacity out under long-term PPAs
- Operates within and beyond DTE's territory

Earnings potential



Program duration



2030





What it takes to succeed

- Project management and execution capabilities
- Dynamic marketing and sales organization, separate from JEA's regulated business and located outside of Jacksonville
- Sophisticated regulatory operation to defend building a standalone, competitive business within the utility territory
- Management and organization agility to quickly stand up a new, standalone unregulated business



What you need to believe

- C&I customers will choose to partner with JEA, enabling up to 19% market capture over 10 years
- Customer acquisition costs will remain low given scale of larger C&I projects, enabling profit margin of 15%
- Regulators will allow JEA to operate in unregulated solar installation businesses while having fully separate regulated businesses
- Ability to capture market in a field that is currently not saturated but larger national players, but could see a growing presence from incumbent players as demand arows

1 Based on storage deployment projections. Potential that new customer offerings including this business could create upside by fostering new market growth

4 Earnings are post-tax, assuming a 20% tax rate

3.7 Build a C&I DG solar design, development, and installation business

Case included in final strategy X Case excluded from final strategy					
Inputs	Units	Base case	Catalyzed market - Aggressive pre-cost parity adoption	Underserved markets outside territory ¹	
Program duration	Years	2022-2030	2022-2030	2025-2030	
C&I solar deployed, 2020 – 2030 using Management Response as a baseline	MW	254	285	304	
Daseille			X	×	
Average solar cost, 2020 – 2030, based on Management Response	\$M/MW	\$1.1	\$1.1	\$1.1	
forecasts			\bigcirc	\bigcirc	
Tax burden	~		•		
	%	20%	20%	20%	
Unregulated earnings, through 2030	\$M	\$3.3	\$3.6	\$8.1	

1 Includes Orlando, Tallahassee, and Gainesville municipal utilities;

² Assumes JEA can reach FPL PPA market share of 19% in year 10 within territory, half of that in municipal territories based on understanding of these players' needs, and half of the muni capture in the rest of FL

Install "smart" poles – expanding JEA's current LED lighting program

Clear existing capability / precedent

Requires capability building or partnership / lacks precedent

Opportunity summary



Business • JEA can drive ~\$40M in earnings from supporting 5G capabilities as model an operator and partnering with telecom companies

- JEA can support penetration of 5G capabilities by:
 - Installing smart poles to enable other smart city functionalities (e.g. Wi-Fi, security cameras, EV charging)
 - Install 5G microcells on existing JEA assets, including poles, substations, pump stations, and other buildings
- Within these options, JEA could consider two revenue models:
 - Revenues from installation, service, and leasing fees to partners
 - Rate-based revenues, with the cost recovered by ratepayers
- If JEA partners with telecom companies and recovers the cost of deploying 5G infrastructure from ratepayers, JEA could facilitate free and/or low-cost 5G service offerings to public spaces and/or underserved communities



Market/regulatory precedent

 Market precedent exists, although programs relatively new with no longterm impact documentation. There may be a supply shortage in many markets, suggesting potential for need



- The City of San Jose partnered with telecom companies to install small cells on 4K light poles
- With a PPP, private companies are expecting to invest \$500M for small cell installations and fiber and other infrastructure



- Xcel Energy has provided wireless network operations access to 180K street lights in Colorado to deploy small cells, having received 1K small cell requests as of Aug 2019
- Carriers have the option of using existing streetlights or requesting new dual-site poles, which are installed by Xcel





Program duration



2030



\$200M²

Assumed Capex deployed, 2023-30



What it takes to succeed

- Personnel and equipment needs to deploy hardware
- Procurement capabilities for hardware
- Ability to acquire permits
- Smart cell deployment capabilities
- Capabilities to offer broadband service



What you need to believe

Permits for small cell deployment will be approved in a time-appropriate manner

1 Scaled from San Jose case study

2 Assume JEA can deploy \$25M in regulated capex per year, beginning in 2023

SOURCE: Company website and press information





4 Water system opportunities

Sine 2000, JEA has acquired numerous local utilities in the greater Jacksonville area

Target	Seller	Announce- ment Date	# of Water Connections (1)	# of Sewer Connections (1)	Transaction Value (\$MM)
Gate Maritime	Gate Maritime Properties, Inc.	6/13/2000	NA	NA	\$1.0
Regency Utilities	Regency Utilities Inc.	4/10/2001	NA	NA	\$7.7
United Water	United Water Florida LLC	12/28/2001	37,000	37,000	\$219.0
Florida Water	Florida Water Services Corporation	10/15/2003	5,800	5,300	\$25.0
Nocatee	Nocatee Utility Corporation	12/6/2004	17,500	17,500 (2)	\$2.3
St. Joe	St. Joe Utilities Company	12/22/2004	8,600	8,600 (2)	\$2.3
Total			68,900	68,400	\$257.2



JEA has the historically-proven ability to expand its footprint through strategic acquisitions of nearby community owned utilities

¹ Approximated connection figures



Water system opportunities (cont'd)

Overview

Water/wastewater utilities face increasing pressures, but have limited ability to respond...

- Florida water utilities will require \$10B through 2030 to replace aging infrastructure
- US water bills increased ~6% since 2010, while average consumption has decreased
- Water / wastewater regulations increased 40% between 2010-17. FL lawmakers are considering new environmental standards, but few utilities have the expertise to meet these regulations

...a high performer with operational excellence and access to capital can radically transform FL water/Wastewater utilities

- JEA is a top performing water/wastewater utility that has maintained high quality operations while keeping rates below Florida's mean
 - The average water utility's O&M/customer spend is 4x higher than JEA's, and wastewater O&M/customer spend is 5% higher
- JEA is a leader in environmental water quality, and can help Northeast Florida utilities meet and exceed environmental standards

JEA has or could build this capability internally

THE BUSINESS MODE



JEA would likely need to partner to build this capability

How JEA will capture value

JEA will acquire and transform nearby water utilities along major Florida transit routes, becoming a roll-up platform for water services by doing the following:

- Bring acquired utilities up to top performer status
- Optimize back office services
- Enhance systems through efficient Capex deployment, maintaining affordability across a wide customer base

What it takes for JEA to be successful

- A deep understanding of the water system, regulations, and customer relationships
- A trusting relationship with Florida municipalities and utilities to support smooth acquisition and integration
- Operational expertise in managing regional capital projects, including implementing emerging technologies
- A partner to infuse capital for water acquisition, integration, and system improvements, given 30x P/E multiples (1)

By the numbers expansion potential

Up to 2,950K new customer accounts added by acquiring utilities in Florida

THE OPPORTUNITY

\$1,135M of potential Opex savings from moving these utilities to JEA's efficiency (2) \$930M run-rate capex investment opportunity through

JEA can grow its water footprint via acquisition, using its top quartile operational performance and capabilities to provide more efficient, affordable services across Florida

- 2 Assumes Northeast Florida utilities' cost profiles resemble the national average, as benchmarked by AWWA, and that JEA can improve O&M/customer spend to JEA's levels by 2030

Source: GWI, Circle of Blue, AWWA State of Water Industry 2019, Michigan State University, EPA, Market data, BAML analyst reports, press search, JEA Invitation to Negotiate



Potential acquisition paths along

Tallahassee 10

major FL transit arteries

Jacksonville

auderdale

Orlando



There are water/wastewater M&A opportunities along 4 major transport arteries

Value creation opportunity from each pathway

M&A pathways - transportation arteries across Florida



Additionally, JEA will accrue equity value by becoming a roll-up platform that transforms and invests in these utilities

SOURCE: GWI; utility websites; AWWA State of Water Industry 2019

¹ Assumes potential acquisition targets operate at median Opex / customer, based on American Water Association benchmarking 2 Assumes JEA will invest Capex in underfunded systems at 50% the rate of JEA's projected investments in its own system 3 Represents combined water and wastewater utilities only, located near the four major highways. Excludes 30 identified utilities without reported customer counts

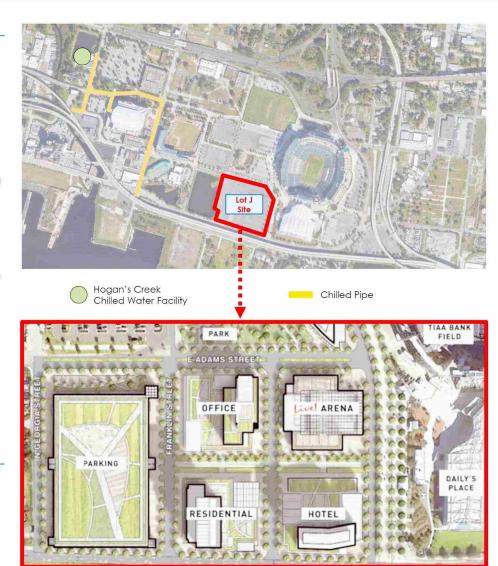
4B District Energy expansion opportunities | Lot J Development

Lot J Development Overview

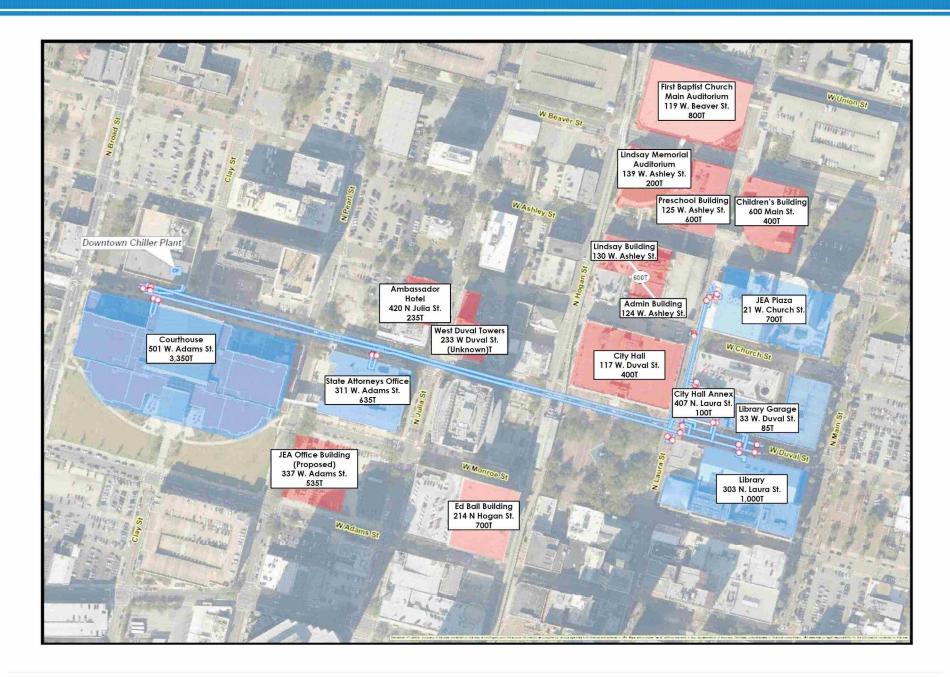
- On July 31, 2019, the City of Jacksonville announced an agreement with the Jacksonville Jaguars to invest and redevelop land, known as "Lot J", located adjacent to TIAA Bank Field
- Development plans for Lot J include a high-rise apartment building, a boutique hotel, office space, a live entertainment venue, and 13,000 parking spaces
- As part of the agreement, the City would provide more than \$230 million in grants and infrastructure improvements
- The remaining \$220 million of investment will be provided by the Jacksonville Jaguars
- Under the Lot J agreement, the City would give developers the land for the Lot J high-rise tower(s), the boutique hotel, the office tower and a mid-rise residential building or buildings
- The City has pledged \$92.8 million in infrastructure improvements in the area including necessary utility upgrades
- Development is expected to begin in 2Q2020
- The Lot J project is part of a larger overall master plan that could reach \$2.5 billion and extend to the nearby shipyards, encompassing over 4 million square feet

JEA District Energy System Growth Opportunity

- Given the close proximity of Lot J to JEA's Hogan's Creek chilled water facility and existing JEA District Energy System infrastructure, the Lot J development is a tangible opportunity for expansion of the system
- Concentrated development provides ability to acquire customers at scale at a lower infrastructure investment cost
- Potential for additional development outside of Lot J as part of the larger master plan offers incremental opportunities for customer acquisition



4B Downtown expansion opportunities (cont'd)

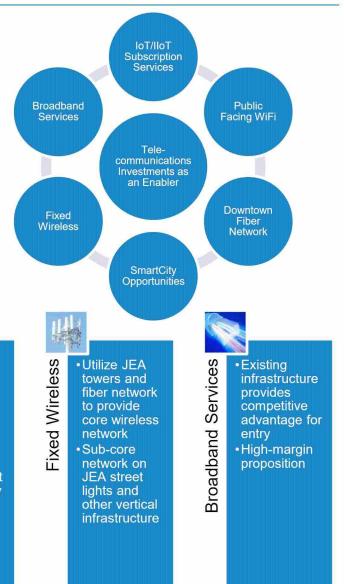




4C Dark fiber growth opportunities

Overview

- Proliferation of smart, distributed devices will likely require increases in network capacity and speed, supporting expansion of the fiber-optic network
- Increase dark fiber leasing as JEA invests in its digital communications network to ensure it can provide the speed and capacity needed by new, distributed smart assets at the grid edge
- By investing in telecommunications infrastructure, JEA can enable improved operations and community development while enhancing returns







 Extend JEA messaging and commitment to community services Leverages underlying network for JEA/public

Downtown Fiber Network

 Unique opportunity to leverage infrastructure to connect JaxNAP located downtown



SmartCity

 Innovation corridor launched on Bay St downtown

 Opportunity for further community advancement through utility investment

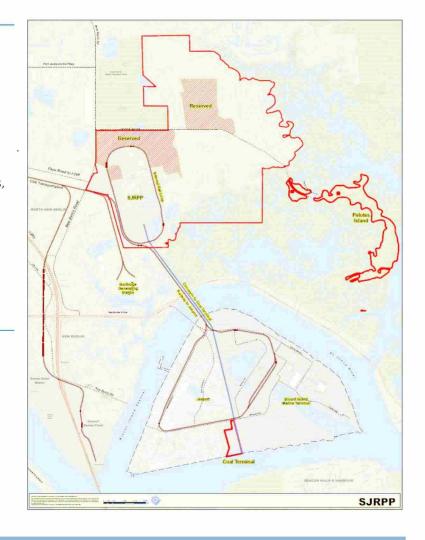
4D Owned land opportunities | St. Johns River Power Park

History

- Until it was closed in January 2018, the SJRPP was a large coal-fired electric generating plant, featuring two turbine/generators that each supplied 632 MW to the transmission grid
- When the plant was constructed in the early 1980s, it was the largest construction project in Jacksonville's history, taking six years to build, at a cost of \$1.45 billion
- Facility is jointly owned by JEA 80% share, and Florida Power and Light 20% portion
- After nearly 30 years in service, SJRPP closed on January 5, 2018. Catalytic reactors, cooling towers and smokestacks were imploded
 - Demolition and site remediation will continue until mid-2020
- Decommissioned plant is located on a 1,600 acre site in Northeast Jacksonville
- JEA will retain 100% of site ownership at the completion of remediation; therefore, site is included as part of the generation portfolio

The Future of SJRPP

- Decommission of the generation site creates an extremely unique opportunity for JEA, freeing up a large, unencumbered parcel of land that is accessible by water for a variety of import/export uses
- Other potential uses of the asset include:
 - Dedicated port facility
 - New generation facility (currently permitted)
 - Large wholesale data center w/ dedicated generation
 - Property sales for redevelopment reflected in "Management Sales Initiatives" HoldCo revenue in Respondent Financial Model





Closing the Power Park reduces JEA carbon emissions by 30% and saves \$50 million in operating expenses per vear

1 Assumes potential acquisition targets operate at median Opex / customer, based on American Water Association benchmarking 2 Assumes JEA will invest Capex in underfunded systems at 50% the rate of

Emerging future homes opportunities

Overview



JEA has or could build this capability internally



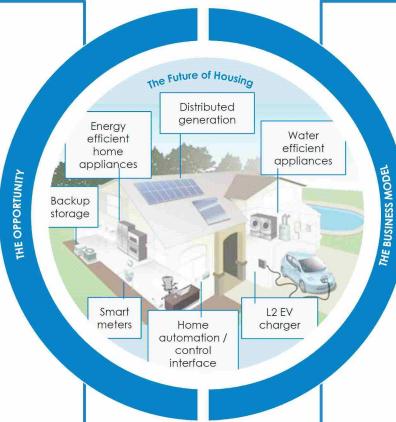
JEA would likely need to partner to build this capability

The Home of the Future will be fully automated, efficient, and resilient...

- The confluence of automation and energy / water efficiency is revolutionizing homes
 - The home control/ automation market is fast growing, with over 30% growth projected through 2022, and \$39B worth of system sales in the US in 2019
 - Energy efficiency is becoming mainstream - ACEEE estimates that emerging EE technologies can reduce consumption an additional 40-60% by 2050
- As Florida storms become more frequent and intense, customers are increasingly interested in resiliency products

...but there is not yet a clear "winner" in the Future Homes solutions space

- Recent market growth is fragmented across appliance contracting, energy services, and technology, stalling further adoption
- Utilities sit at the nexus of these industries, and have the relationships (e.a., with customers, contractors) and capabilities to tap into the nascent Future Homes market



How JEA can capture value

- JEA will provide a packaged set of Future Homes solutions to revolutionize housing in Florida
- This business could "play" in the following spaces:
 - Provide engineering, design, and installation services of Future Homes packages for new build developers
 - Offer flexible financing (e.g., "rent to own", tariff financina) to incentivize adoption
 - Maintain and optimize resource use for ecosystems of home devices, using the home as a arid asset
 - Retrofit existing homes and communities

What it takes for JEA to be successful

- Deep energy and water expertise, including system optimization
- A partner with operational capabilities to install and maintain cutting edge home appliances in the crowded contractor market
- A sophisticated marketing and sales organization that can acquire and educate customers outside JEA's current geography
- A financial partner that can underwrite / support flexible financing of customers' end systems

By the numbers market potential

2 million new build homes in FL projected between 2020-30, requiring require nearly \$20B worth of appliances

Over 1 in 3 2030 homes could be fully efficient, using recent growth in the home automation market as a proxy

At this trajectory, Homes of the Future can make up a \$1.3B market in Florida in 2030



JEA has an opportunity to become the premier, smart, efficient homes solutions supplier for Florida developers and communities, providing solutions for resilience, resource efficiency, and automation/control

Note: The smart thermostat and HVAC market grew 36% p.a. between 2014-18 - whole home systems could follow the same trajectory SOURCE: U.S. Census Bureau (BOC): New Residential Construction (C20, C22); Moody's Analytics Estimated and Forecasted, Alternative Fuels Data Center



JEA can also attract new businesses to Jacksonville, supporting economic development and growing load

Industries targeted by Economic Development Organizations in the Southeast¹



Aerospace and Defense



High Tech and IT



Financial Services



Manufacturing



Transport and Logistics



How JEA will deliver

- By building a dedicated economic development arm, JEA can encourage development in sectors already considering relocating to the Southeast
- JEA's existing strengths (e.g., high-growth MSA, Port of Jacksonville) already make Jacksonville an attractive destination for target corporations
- As JEA executes its 2030 strategy, it can provide the resiliency and low carbon offerings critical to helping corporations meet their sustainability goals
- By attracting 2-3 new, energy intensive businesses to Jacksonville in the next 10 years, JEA can grow load 2-4%. This load growth is equivalent to adding JEA's two largest customer accounts2

Case studies – utilities' successful economic development efforts

TVA is supporting Google's conversion of a coal plant into a renewably powered data center



\$600M investment will employ approx. 100 people and provide a \$100K grant for STEM education for Jacksonville County Public Schools

NextEra Energy is building a **150MW solar farm** that will provide 100% renewable power to the data center

Georgia Power is bringing a 1.1Msf manufacturing facility to Savannah



Safavieh, a manufacturer and distributor of international home furnishings, will create 200 jobs and invest over \$60M in a new distribution facility

1 Not exhaustive – survey of large utility economic development organization
2 JEA's two largest customer accounts - US Navy Public Works Center (1.8%) and the City of Jacksonville (1.8%) - amount to 3.6% of 2018 load
SOURCE: Site Selection, Company websites and press – The Guardian, Knox News

Detail to follow

About this document

An overview of the approach and guidelines to JEA's strategy development

Strategic aspirations for JEA

2030 Vision for JEA across strategic pillars (customer, environmental, community, financial), with metrics outlined for each pillar; summary of how strategic initiatives will achieve financial and non-financial metrics

Operational improvements

Redesign of JEA's operating practices to achieve top-quartile performance as measured against JEA's peer set

Strategic capital investments

Investments in traditional utility infrastructure to deliver new outcomes and benefits to our customers (e.g. customer resiliency, grid flexibility and customer choice, clean and sustainable, etc.)

Core growth opportunities

Investments in new growth businesses core to the utility model: transport electrification, energy efficiency, distributed generation

Additional growth opportunities

Additional growth initiatives that position JEA as a growth platform that are currently not included in the financial projections

Next steps

Next steps to build capabilities and execute strategy

Appendix 1: Initiative charters and supporting analyses

Further detail on the strategic and financial objectives for each new initiative

Appendix 2: Next steps on implementation

Critical next steps to drive implementation of the strategic plan

Appendix 3: Organizational health initiatives

Actions JEA will undertake to improve its organizational health











Next Steps on Implementation





next steps on implementation - operational improvements Improve generation efficiency to reduce consumption of fuels, other consumables

Generation efficiency



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Identify controllable parameters to pursue reduction of chemical variability as precisely as reasonably required 	• Q3 2020	 Energy: technical knowledge of fuel consumption and relevant performance metrics 	 May require greater technical knowledge
	Review utilization of environmental controls (e.g., limes, limestone, ammonia) to ensure excess materials are not used	• Q3 2020	 Energy: technical knowledge of fuel consumption and consumables 	May require greater technical knowledge
Imple- mentation Planning	 Develop understanding of drivers of heat rate and emissions limits (e.g., SOx, NOx) using performance monitoring tools, like etaPRO 	• Q3 2020	 Energy: familiarity with the most relevant heat rate monitoring tools and their integration with existing generation infrastructure; deep understanding of drivers of heat rate and loss 	 Potential need for improved technical knowledge of heat rate monitoring tools and plant engineering
	 Establish KPI for 1- and 30-day rolling average for sulphur oxides and nitrides, and include this metric in key management meetings 	• Q3 2020	 Energy: familiarity with SO_x and NOx emissions limits; technical knowledge of drivers of heat rate and chemical variability 	 Potential need for improved technical knowledge of heat rate monitoring tools and plant engineering
	 Coach plant operators on identified interventions to reduce heat rate and convince managers to adjust behaviors accordingly 	• Q4 2020	 Energy: coaching; change management; technical understanding of drivers of heat rate and chemical variability 	 Potential need for more project managers with black belt experience
lmple-	Monitor and control emissions scrubbing and use of related chemicals	• Q1-Q2 2021	 Energy: project management; technical knowledge of drivers of heat rate and chemical variability 	May require greater technical knowledge
mentation	Install a new crush and burn system to reduce limestone usage	• Q1-Q2 2021	Energy: ability to translate data on reductions into actionable steps to reduce fuel consumption	Potential need for external technical expertise on limestone crushing system
	Collect data to monitor improvements in efficiency and reductions in excess consumption	• Q1-Q2 2021	 Energy: technical understanding of drivers of heat rate and chemical variability 	May require improved data collection practices

1 All of the major initiative categories will be rolled out to Northside, Kennedy, Brandy, Branch, and Greenland generation facilities; 2 Bottom up planning Environmental: 4 To be rolled out in the following order: Buckman; District II; Southwest; Arlington; and Water Treatment Plants

3 HR, Finance, Compliance,





Generation: frontline operational excellence

			4
Frontline	operational	excellence	

Activities	Timing ¹	Required Team(s)/Capabilities	Risk to manage
 Build a frontline operational excellence team that includes three key sub-teams: plant operations, maintenance; and fuel handling 	• Q3 2020	 Energy: ability to identify leaders within organization, and experience forming cross-functional working teams; project management 	Need to create new cross- functional operations team
 Each sub-team conducts plant visits to perform wrench time analysis and identify existing pain points (e.g., log taking, work planning, repairing equipment, pulling bottom ash, etc.) 	• Q3 2020	Frontline operations sub-teams: experience observing sites and monitoring crew performance	 May need to ensure that observations are standardized across sub- teams
 Host frontline ideation sessions for each of the pain points to proactively engage workforce on solutions 	• Q3 2020	• Frontline operations sub-teams: effective communication with frontline	Need to identify session leaders
 Develop implementation plans and KPIs for new activities based on site observations, frontline ideation, and industry best practices 	• Q3 2020	 Frontline operations sub-teams: project management; work planning; knowledge of equipment specifications and needs 	May need greater strategic collaboration between sub- teams
Coach frontline on implementation	• Q4 2020	 Frontline operations sub-teams: effective communication/coaching for frontline; change management 	Requires central change management team
 Pilot and test new practices with subset of crews and sub-teams (e.g., improved logs; improved scheduling and work planning; maintenance and repairs, etc.) 	• Q4 2020-Q4 2022	• Frontline operations sub-teams: project management; change management	 Potential need for more project managers with black belt/lean operations experience
 Refine and scale new practices, monitoring KPIs to validate impact 	• Q4 2020-Q4 2022	 Frontline operations sub-teams: project management; ability to leverage data to effectively monitor KPIs 	 Need to build digital/ analytics team and incorporate with existing strategy
	 Build a frontline operational excellence team that includes three key sub-teams: plant operations, maintenance; and fuel handling Each sub-team conducts plant visits to perform wrench time analysis and identify existing pain points (e.g., log taking, work planning, repairing equipment, pulling bottom ash, etc.) Host frontline ideation sessions for each of the pain points to proactively engage workforce on solutions Develop implementation plans and KPIs for new activities based on site observations, frontline ideation, and industry best practices Coach frontline on implementation Pilot and test new practices with subset of crews and sub-teams (e.g., improved logs; improved scheduling and work planning; maintenance and repairs, etc.) Refine and scale new practices, monitoring KPIs 	 Build a frontline operational excellence team that includes three key sub-teams: plant operations, maintenance; and fuel handling Each sub-team conducts plant visits to perform wrench time analysis and identify existing pain points (e.g., log taking, work planning, repairing equipment, pulling bottom ash, etc.) Host frontline ideation sessions for each of the pain points to proactively engage workforce on solutions Develop implementation plans and KPIs for new activities based on site observations, frontline ideation, and industry best practices Coach frontline on implementation Q4 2020 Pilot and test new practices with subset of crews and sub-teams (e.g., improved logs; improved scheduling and work planning; maintenance and repairs, etc.) Refine and scale new practices, monitoring KPIs Q4 2020-Q4 2022 	 Build a frontline operational excellence team that includes three key sub-teams: plant operations, maintenance; and fuel handling Each sub-team conducts plant visits to perform wrench time analysis and identify existing pain points (e.g., log taking, work planning, repairing equipment, pulling bottom ash, etc.) Host frontline ideation sessions for each of the pain points to proactively engage workforce on solutions Develop implementation plans and KPIs for new activities based on site observations, frontline ideation, and industry best practices Coach frontline on implementation Q4 2020 Frontline operations sub-teams: erfective communication with frontline; change management Pilot and test new practices with subset of crews and sub-teams (e.g., improved logs; improved scheduling and work planning; maintenance and repairs, etc.) Refine and scale new practices, monitoring KPIs Q4 2020-Q4 2022 Frontline operations sub-teams: project management; change management Frontline operations sub-teams: project management; change management Frontline operations sub-teams: project management; change management

1 To accrue benefits of operational improvements in a coordinated fashion, it is best to undertake new activities within the same time period SOURCE: Expert insights



1.3 Generation: Lower fuel handling expenses

Lower fuel handling expenses



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Define potential opportunity to reduce fuel handling costs, including contractor spend and ancillary activities (e.g., ash handling) 	• Q3 2021	 Energy: thorough technical, financial, and operational understanding of fuel handling 	 No major gaps identified; may require additional resourcing
	 Conduct market assessment to understand players in the coal fuel handling market 	• Q3 2021	Energy: understanding of market for fuel handling	 May require greater understanding of market
	 Conduct supplier workshops for coal yard contractors and providers of ancillary services 	• Q3 2021	 Energy/Procurement: technical and operational understanding of fuel handling 	 Requires cross-functional collaboration between Energy and Procurement
Imple- mentation Planning	 Understand and prioritize other non-negotiation- related opportunities in the coal yard (e.g., rental cost reduction; diesel spend reduction; streamlined operations to reduce overtime/party size) through variety of diagnostic analyses (e.g., fleet rationalization, wrench time analysis, etc.) 	• Q3 2021	 Energy: workforce planning; crew right-sizing; scheduling and planning; operational knowledge of coal yards 	 May require additional operational expertise
	 Identify and prioritize additional non-cost opportunities related to heat rate and auxiliary load 	• Q3 2021	 Procurement: technical understanding of drivers of heat rate and auxiliary load 	 May require additional technical knowledge
	 In addition to expense reduction, understand opportunities to maximize value capture from sale of fly ash based on market scan 	• Q3 2021	Energy: knowledge of market for coal byproducts	 May require additional technical knowledge
	Based on contractor fuel handling expense reduction targets, issue RFPs	• Q4 2020-Q1 2021	 Energy: knowledge of technical needs Procurement: experience in RFPs; vendor management 	 May require additional capabilities vendor management
	 Negotiate contracts for fuel handling contractor services 	• Q4 2020-Q1 2021	Procurement: excellence in negotiations	 May require additional capabilities in negotiations
Imple- mentation	Rollout coal yard operational efficiency activities	• Q1-Q2 2021	Energy: operational knowledge of coal yards	 No major gaps identified; may require additional
	Monitor changes in spend for fuel handling expenses	• Q1-Q2 2021	Energy: technical and financial knowledge of fuel handling	resourcing • No major gaps identified; may require additional resourcing

SOLIPCE: Export insight



1.4 Generation: demand management

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Conduct bottom-up diagnostic to identify areas of biggest spend (e.g., fuels, reagents, and byproducts; materials management; contracted maintenance) on a plant-by-plant basis 	• Q2 2021	 Energy: generation plant/maintenance managers with knowledge of day-to-day operations/unique plant design Finance: financial modeling; data analysis 	 May require further centralized knowledge and coordination at plant level
	 Itemize overall spend across major categories and develop framework to define which work and materials are necessary 	• Q2 2021	 Energy: generation plant/maintenance managers with knowledge of day-to-day operations/unique plant design 	 May require further centralized knowledge and coordination at plant level
Imple- mentation Planning	 Assess optimal mix between contracted and insourced work (e.g., consider insourcing smaller jobs) 	• Q2 2021	 Energy: technical knowledge of plant needs; work planning; understanding of labor contracts 	May require further centralized knowledge and coordination at plant level
	 Conduct deep-dive analyses to prioritize major categories for demand management (e.g., ammonia; activated carbon; sodium bicarbonate, etc.) 	• Q2 2021	 Energy: engineering expertise to identify major spend categories specific to generation plants 	 May require additional engineering and technical expertise
	Develop strategy to control spend	• Q3 2021	Energy/Procurement: cross-functional strategic planning	Requires cross-functional planning
	 Stand up Spend Control Tower at each plant with regular cadence of meetings and culture of "no" 	• Q3 2021-2030	 Energy: project management; technical knowledge Procurement: ability to provide commercial perspective as needed 	 Requires cross-functional team at each plant with input from Procurement
	 Deploy tiger teams to develop fact base, conduct market research, and reduce spend across priority categories 	• Q4 2021-2030	Energy: technical knowledge of spend categories; understanding of market for relevant materials	 Requires cross-functional teams with subject matter expertise
Imple-	phone, categories		 Procurement: ability to provide commercial perspective as needed 	одрагиес
mentation	Undertake contractor spend reduction program	• Q4 2021	 Energy: work planning; understanding of day-to-day operating needs 	Energy team may require additional resources
	Undertake rental equipment spend program	• Q4 2021	Energy: fleet optimization; equipment management	Energy team may require additional resources

SOURCE: Expert insights



1.5 T&D: frontline operational excellence

Frontline operational excellence



	Activities	Timing ¹	Required Team(s)/Capabilities	Risk to manage
Imple- mentation Planning	 Build a frontline operations working team that includes key sub-teams (e.g., lines and cables; substations; feeders; planning and scheduling; and other maintenance) 	• Q3 2020	 Energy: ability to identify leaders within organization, and experience forming cross-functional working teams; project management 	 Need to create new cross- functional operations team
	 Each sub-team conducts a ride-along in order to conduct wrench time analysis and identify existing pain points, as well proportion of crew leader time spent on field supervising vs. admin 	• Q3 2020	 Frontline operations sub-teams: experience observing sites and monitoring crew performance 	 May need to ensure that observations are standardized across sub- teams
	 Host frontline ideation sessions for each of the pain points to proactively engage workforce on solutions 	• Q3 2020	 Frontline operations sub-teams: effective communication with frontline 	 Need to identify session leaders
	 Create an implementation plan and KPIs for improved operations (e.g., crew matching, materials planning strategy for pre-kitting, fleet optimization plan) 	• Q3 2020	• Frontline operations sub-teams: Work planning, crew right- sizing; resource scheduling; fleet optimization	Requires coordination between sub-teams
	Coach frontline on implementation	• Q4 2020-Q4 2022	• Frontline operations sub-teams: effective communication/coaching for frontline; change management	 No major gaps identified; may require additional resourcing
Imple- mentation	 Pilot and test new practices with subset of crews and sub-teams on daily, weekly, and monthly basis (e.g., pre-kitting; improved fleet management, etc.) 	• Q4 2020-Q4 2022	• Frontline operations sub-teams: project management; change management	 Potential need for more project managers with black belt/lean operations experience
mentation	 Refine and scale new practices, monitoring KPIs to validate impact 	• Q4 2020-Q4 2022	 Frontline operations sub-teams: project management; ability to leverage data to effectively monitor KPIs 	Need to build digital/analytics team
			 Digital/Analytics: ability to support data collection and analysis in partnership with operations teams 	

1 To accrue benefits of T&D operational improvements in a coordinated fashion, it is best to undertake new activities within the same time period



1.6 T&D: digitalize frontline operations

Digitalize frontline operations



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Identify opportunities to digitalize elements of user journeys (e.g., pre-drop, tools selection) and core workflows through observations, interviews, and data analysis 	• Q4 2022	 Energy: strategic planning; design thinking; experience observing sites and monitoring crew performance Digital/Analytics: familiarity with T&D digital needs and relevant solutions on the market 	 Need to build new ad hoc team and integrate within existing group
Imple-	 Conduct pre-discovery and discovery activities (e.g., sketches, pre-build wireframes) and socialize with field workforce 	• Q4 2022	 Energy: design thinking; effective communication with frontline workforce 	 May require team leaders with greater capabilities in design thinking
mentation Planning	 Sequence key digitalization opportunities based on observations, interviews, data analysis, and pre-discovery/discovery activities 	• Q4 2022	 Energy: strategic planning; understanding of frontline needs; familiarity with day-to-day operations 	 May require greater familiarity with digital solutions
	 Develop a roadmap that identifies strategic digital priorities for T&D organization; secure manager buy-in for plan 	• Q4 2022	 Energy: project management; strategic planning; Digital/Analytics: familiarity with T&D digital needs and relevant solutions on the market 	 Need to build digital/analytics team
	 Develop system architecture and data lake; integrate new infrastructure with existing core IT 	• Q4 2022	 Digital/Analytics: data architecture IT: systems engineering 	 Need to build digital/analytics team
Imple-	 Stand up agile development teams that collaborate with frontline to develop MVPs (minimum viable products) to test in variety of use cases (e.g., field mobility, operational technology for visibility into work, leak surveys, emergent work, planned work, etc.) 	• Q1 2023	 Energy: project management; understanding of frontline needs; agile experience Digital/Analytics: software development 	 Potential need for more project managers with agile experience to implement strategy
	Procure relevant technology ¹	• Q2 2023	 Procurement: vendor selection; contract management; excellence in negotiations Digital/Analytics; Energy: technical knowledge of digital technologies 	 Requires cross-functional collaboration between procurement, digital, and energy teams
mentation	Pilot digital solutions with a small set of crews	• Q2-Q3 2023	Energy: project management; change management; effective communication with frontline crews	 Need for agile/change management expertise
			 Digital/Analytics: technical knowledge of digital technologies 	 Need to build digital/analytics team
	 Refine and scale by expanding across the T&D frontline workforce 	• Q3-Q4 2024	 Energy: project management; change management; effective communication with frontline crews 	 Potential need for project managers with agile experience
	 Monitor KPIs to track impact and progress 	• Q3 2024-2030	 Digital/Analytics: data collection, storage, and analysis 	 Need to build digital/analytics team

1 For further detail on procurement activities, see the strategic sourcing initiative



1.7 T&D: demand management

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Conduct bottom-up diagnostic to identify areas of biggest spend (e.g., cables, transformers, switchgear) on a facility basis 	• Q2 2021	 Energy: T&D managers with knowledge of day-to-day operations Finance: financial modeling; data analysis 	 May require further centralized knowledge and coordination at facility level
	 Itemize overall spend across major categories and develop framework to define which work and materials are necessary 	• Q2 2021	 Energy: T&D line managers with knowledge of day-to- day operations/unique plant design 	May require further centralized knowledge and coordination at facility level
Imple- mentation Planning	 Assess optimal mix between contracted and insourced work (e.g., consider insourcing smaller jobs) 	• Q2 2021	 Energy: technical knowledge of plant needs; work planning; understanding of labor contracts 	May require further centralized knowledge and coordination
	 Conduct deep-dive analyses to prioritize major categories for demand management (e.g., core T&D equipment, spare parts) 	• Q2 2021	 Energy: engineering expertise to identify major spend categories specific to T&D 	 May require additional engineering and technical expertise
	Develop strategy to control spend	• Q3 2021	Energy/Procurement: cross-functional strategic planning	Requires cross-functional planning
	 Stand up Spend Control Tower at each facility with regular cadence of meetings and culture of "no" 	• Q3-Q4 2021	 Energy: project management; technical knowledge Procurement: ability to provide commercial perspective as needed 	 Requires cross-functional team at each facility with input from Procurement
Imple- mentation	 Deploy tiger teams to develop fact base, conduct market research, and reduce spend across priority categories 	• Q4 2021-Q1 2022	 Energy: technical knowledge of spend categories; understanding of market for relevant materials Procurement: ability to provide commercial perspective 	 Requires cross-functional teams with subject matter expertise
	Undertake contractor spend reduction program	• Q2-Q3 2021	 e Energy: work planning; understanding of day-to-day operating needs 	Energy team may require additional resources
	Undertake rental equipment spend program	• Q2-Q3 2021	Energy: fleet optimization; equipment management	Energy team may require additional resources

1 For further detail on procurement activities, see the strategic sourcing initiative



1.8 T&D: vegetation management

Vegetation management

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Assess current annual vegetation inspection plan and spend targets, along with existing contracts with vendors	• Q3 2020	Energy: technical knowledge of vegetation management	No major gaps identified; may require additional resourcing
	Procure advanced analytical modeling and machine learning tools to asses infrastructure and vegetation	• Q3 2020	 Energy: knowledge of key vegetation characteristics (e.g., seasonality, common threats) 	Need to build digital/analytics team
	growth rates ¹		 Procurement; Digital/Analytics: ability to select appropriate machine learning and analytic solutions 	
Imple- mentation	 Collect data on trims, inspections, and line maintenance and run relevant analyses (e.g., TCO vs. cycle time) 	• Q3 2020	 Energy and Digital/Analytics: data collection and handling; data analysis 	May require greater technical knowledge
Planning	Develop multi-layer spend taxonomy to identify and quantify major areas of vegetation contractor spend	• Q3 2020	Energy and Digital/Analytics: project management; modeling	Need to build digital/analytics team
	quantity major areas or vegetation contractor spend		Procurement: cross-functional collaboration	team
	Translate data and spend categories into set of	• Q3 2020	 Digital/Analytics: data translation 	 Need to build digital/analytics
	procurement requirements that target most important types of vegetation and locations		Procurement: excellence in vendor communication team	team
	Develop tree trimming strategy based on analytic inputs	• Q3 2020	Energy: strategic planning	 May require greater technical knowledge
	 Launch requests for information (RFIs) from broad set of vendors² 	• Q4 2020	Energy: technical knowledge of vegetation management	Procurement team may require
	Volidolo		Procurement: excellence in vendor communication	additional resources
	 Launch multi-level requests for proposal (RFP)/ e- auctions to maximize savings per category 	• Q1 2021	 Procurement: expertise in RFPs; vendor management 	 Procurement team may require additional resources
	Conduct negotiations with vendors	• Q2 2021	Procurement: excellence in vendor negotiations	 May require further development of negotiation skills
	 Achieve principal agreement with vendor and finalize contract 	• Q3 2021	Procurement: excellence in contracts	 No major gaps identified; may
Imple-			 Legal: knowledge of applicable contract law 	require additional resourcing
mentation	Continue rollout of advanced analytics tools for	• Q3 2021-2030	Energy: project management	Need for project managers with
	vegetation management (e.g., trim predicted by		Digital/Analytics: data analysis; modeling; machine learning	expertise in vegetation
	growth/risk area) and vendor spend			 Need to build digital/analytics team
	 Monitor contractor activity based on agreed-upon deadlines and milestones 	• Q3 2021-2030	 Energy: contractor management; experience using performance management software 	 May require technical knowledge of new assets
	Set up a systematic supplier management process (e.g., quarterly reviews)	• Q3 2021-2030	Energy: vendor communication; contract analysis	 No major gaps identified; may require additional resourcing

1 N.B. This area of procurement addresses the analytics solutions required to undertake an effective contracting strategy for vegetation management. 2. For further detail on procurement activities, see the strategic sourcing initiative



1.9 Water and wastewater: frontline operational excellence

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Frontline operational excellence

	Activities ¹	Timing ²	Required Team(s)/Capabilities	Risk to manage
	Distribution/Collection: Build a frontline operations working team	• Q4 2020	 Water and Wastewater: ability to identify leaders within organization, and experience forming cross-functional working teams; project management 	 Need to create new cross- functional operations team
	 Distribution/Collection: conduct ride-alongs for distribution and collection to quantify current wrench time and identify existing pain points 	• Q4 2020	 Frontline operations working team: experience observing crew performance; technical expertise in distribution 	 May need to ensure that observations are standardized across sub- teams
Imple- mentation Planning	 Distribution/Collection: Host frontline ideation sessions for each of the pain points to proactively engage workforce on solutions 	• Q4 2020	Frontline operations working team: effective communication with frontline	 Need to identify session leaders
	 Distribution/Collection: Redesign work planning to streamline routing of teams/materials 	• Q4 2020	 Frontline operations working team: Work planning, crew right-sizing, and schedule optimization 	 Requires coordination between sub-teams
	 Distribution/Collection: Develop action plans and KPIs for new activities based on observations, frontline ideation, and industry best practices 	• Q4 2020	 Frontline operations working team: project management; ability to gather best practices within the utility industry 	 May need greater strategic collaboration between sub- teams
	Distribution/Collection: Coach frontline on implementation	• Q1-Q3 2021	 Frontline operations working team: effective communication/coaching for frontline; change management 	 Requires central change management team
Imple- mentation	Distribution/Collection: Pilot and test new practices with subset of crews and sub-teams	• Q1 2021-Q4 2023	Frontline operations working team: project management; change management	 Potential need for more project managers with black belt/lean operations experience
	 Distribution/Collection: Refine and scale new practices, monitoring KPIs to validate impact 	• Q1 2022—Q4 2023	 Frontline operations working team: ability to deploy work order/field force management system; ability to leverage data to effectively monitor KPIs; project management 	 Potential need for a more effective work order/field force management system to create and track data

1 Savings in this initiative are allocated to distribution and collection, not water treatment; 2 To accrue benefits of water and wastewater operational improvements in a coordinated fashion, it is best to undertake new activities within the same time period



1.10 Water and wastewater: digitalize frontline operations

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Digitalize frontline operations

	Activities ¹	Timing	Required Team(s)/Capabilities	Risk to manage
Imple- mentation Planning	 Treatment: Identify opportunities to digitalize elements of user journeys (e.g., pre-drop, tools selection) and core workflows through observations, interviews, and data analysis 	• Q1 2023	 Water/wastewater: strategic planning; design thinking; experience observing sites and monitoring crew performance Digital/Analytics: familiarity with digital needs for treatment and relevant solutions on the market 	 Need to build new ad hoc team and integrate within existing group
	 Treatment: Sequence key digitalization opportunities based on observations, interviews, data analysis, and pre-discovery/discovery activities (e.g., sketches, wireframes) 	• Q1 2023	 Water and Wastewater: strategic planning; understanding of frontline needs; familiarity with day-to- day operations 	 May require greater familiarity with digital solutions
	 Treatment: Develop a roadmap that identifies strategic digital priorities for water treatment plants; secure manager buy-in for plan 	• Q1 2023	 Water and Wastewater: project management; strategic planning Digital/Analytics: familiarity with water/wastewater treatment digital needs and relevant solutions on the market 	 Need to build digital/analytics team
Imple- mentation	 Treatment: Stand up agile development teams that collaborate with plant crews to develop MVPs (minimum viable products) to test in variety of use cases (e.g.,) 	• Q2-Q3 2023	 Water and Wastewater: knowledge of tasks that present automation opportunity; ability to communicate needs to procurement Procurement: vendor selection for automation solutions; some technical knowledge required 	 Potential need for more project managers with agile experience to implement strategy
	Treatment: Procure relevant technology ²	• Q4 2023-Q1 2024	 Procurement: vendor selection; contract management; excellence in negotiations Digital/Analytics; Water/Wastewater: technical knowledge of digital technologies 	 Requires cross-functional collaboration between procurement, digital, and water/wastewater teams
	Treatment: Pilot digital solutions with a small set of plant crews	• Q2-Q4 2024	 Water and Wastewater: project management; change management; effective communication with plant crews Digital/Analytics: technical knowledge of digital 	 Need for agile/change management expertise Need to build
	Treatment: Refine and scale by expanding across the workforce	• Q2-Q4 2024	Water and Wastewater: project management; change management; effective communication with frontline crews	digital/analytics team Potential need for more project managers with agile experience
	Treatment: Monitor KPIs to track impact and progress	• Q2-Q4 2024-2030	Digital/Analytics: data collection, analysis, and storage	Need to build digital/analytics team

1 Savings in this initiative are attributed to water and wastewater treatment, not distribution and collection 2. For further detail on procurement activities, see the strategic sourcing initiative



1.11 Water and wastewater: reduce auxiliary load



Reduce auxiliary load

	Activities ¹	Timing	Required Team(s)/Capabilities	Risk to manage
	 Use a performance monitoring tool in control room to inform baseline perspective on auxiliary load in order to optimize pump station behavior 	• Q3 2020	 Water: familiarity with monitoring tool; familiarity with drivers of heat rate and heat loss; ability to collect and process data 	 May require upskilling in performance monitoring tools
Imple- mentation Planning	 Develop benchmarks for appropriate auxiliary load based on JEA past performance and that of 	• Q3 2020	 Water: engineering understanding of pumping behavior performance limits; knowledge of industry players 	 May require greater engineering knowledge
	other industry players		Digital/Analytics: modeling support to water	 Need to build digital/analytics team that understands water technology
	 Conduct analyses to optimize pump station behavior (e.g., model of water network; sensor of wells; machine-learning algorithm to direct 	• Q3 2020	Digital Analytics: data analysis; machine learning expertise	 Need to build digital/analytics team
	pumping in real-time)		Water: technical/engineering knowledge of pumps	
	 Set target for load reduction based on industry insights and analyses 	• Q3 2020	 Water: technical/engineering knowledge of pumps; strategic planning 	 May require additional technical knowledge
	 Based on analyses, develop coordinated schedule and plan to reduce auxiliary load (e.g., optimizing pumping cycles to ensure pump stations do not simultaneously work against each other) 	• Q3 2020	 Water: technical/engineering knowledge to optimize pump scheduling 	 May require additional capabilities to manage pumping schedules to minimize electricity usage
	Identify auxiliary equipment that can reduce loads	• Q4 2020	 Water: technical knowledge of relevant pumping technologies 	 May require greater technical knowledge
	loudo		 Procurement: knowledge of regional providers of these assets/services 	
	Procure load-reduction equipment	Q1 2021	 Procurement: vendor selection for load-reduction solutions; some technical knowledge required; excellence in contracts 	 May require greater technical knowledge
Imple- mentation	 Pilot auxiliary load-reduction technologies to optimize pumping (install or outsource to contractor) 	• Q2-Q4 2021	Water: project management; contractor management	 Potential need for more project managers with black belt experience
	 Collect data to track success of new technology rollout 	• Q2 2021	 Digital/Analytics: data collection, storage, and monitoring 	 Need to build digital/analytics team
	 Refine and scale by expanding across the fleet, monitoring KPIs to validate impact 	• Q4 2021-2030	Water: knowledge of relevant SOWs on pump controls	 No major gaps identified; may require additional resourcing



1.12 Water and wastewater: demand management

	Demand management			
	Activities ¹	Timing	Required Team(s)/Capabilities	Risk to manage
	 Conduct bottom-up diagnostic to identify areas of biggest spend (e.g., chlorine and other DBPs; tubing, filtration sands, maintenance, etc.) for each treatment plant or distribution facility 	• Q2 2021	 Water/wastewater: managers with knowledge of day-to-day operations/unique plant design Finance: financial modeling; data analysis 	 May require further centralized knowledge and coordination at plant/facility level
	 Itemize overall spend across major categories and develop framework to define which work and materials are necessary 	• Q2 2021	Water/wastewater: managers with knowledge of day-to- day operations/unique plant design	 May require further centralized knowledge and coordination at plant/facility level
Imple- mentation Planning	 Assess optimal mix between contracted and insourced work (e.g., consider insourcing smaller jobs) 	• Q2 2021	 Water/wastewater: technical knowledge of materials/plant needs; work planning; understanding of labor contracts 	 May require further centralized knowledge and coordination at plant/facility level
	 Conduct deep-dive analyses to prioritize major categories for demand management depending on needs of treatment plant or distribution facility 	• Q2 2021	 Water/wastewater: engineering expertise to identify major spend categories specific to treatment plants 	 May require additional engineering and technical expertise
	Develop strategy to control spend	• Q3 2021	 Water/wastewater; Procurement: cross-functional strategic planning 	 Requires cross-functional planning
	 Stand up Spend Control Tower at each plant/facility with regular cadence of meetings and culture of "no" 	• Q3 2021-2030	Water/wastewater: project management; technical knowledge	 Requires cross-functional team at each treatment plant/distribution facility
			 Procurement: ability to provide commercial perspective as needed 	with input from Procurement
	Deploy tiger teams to develop fact base, conduct market research, and reduce spend across	• Q4 2021-2030	 Water/wastewater: technical knowledge of spend categories; understanding of market for relevant materials 	Requires cross-functional teams with subject matter
Imple- mentation	priority categories		 Procurement: ability to provide commercial perspective as needed 	expertise
	Undertake contractor spend reduction program	• Q4 2021	 Water/wastewater: work planning; understanding of day- to-day operating needs 	 Water/wastewater team may require additional resources
	Undertake rental equipment spend program	• Q4 2021	 Water/wastewater: fleet optimization; equipment management 	 Water/wastewater team may require additional resources

1 Savings in this initiative are attributed to treatment, distribution, and collection



Customer: frontline operational excellence



Frontline operational excellence

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Build a frontline operations performance team that includes call center managers and meter team representatives	• Q4 2020	Customer: talent development; project management	 Need to create customer- focused operations team
Imple- mentation Planning	Coach frontline working team on agile and lean operating practice	• Q4 2020	Customer (or external group): ability to communicate agile/lean operating model to leaders	May require third-party support
	Team leaders observe performance across key moments at call centers (e.g., outage, billing issues, etc.) and metering (e.g., meter reads) to understand opportunities and pain points for operational excellence	• Q4 2020	Frontline operations team: experience observing sites and monitoring crew performance	No major gaps identified; may require additional resourcing
	 Host frontline ideation sessions for each of the pain points to proactively engage customer-facing workforce on solutions 	• Q4 2020	 Frontline operations team: effective communication with frontline; talent development 	Need to identify session leaders
	 Develop action plans and KPIs for new activities based on call center observations, ride-alongs for metering, frontline ideation, and industry best practices 	• Q4 2020	Frontline operations team: project management; ability to gather best practices within the utility industry	 May need greater strategic collaboration between sub- teams
	Develop better call scripts	• Q4 2020	• Frontline operations team: effective communication/coaching for frontline; change management	Customer team may require additional resources
	Coach frontline on implementation	• Q1 2021	• Frontline operations team: effective communication/coaching for frontline; talent development	Customer team may require additional resources
	Implement plans for optimized capacity and skill- based routing	• Q1 2021	 Frontline operations team: work planning and schedule optimization 	No gaps identified
Imple- mentation	Pilot and test new practices with subset of call center and metering workforce	• Q2 2021	Frontline operations sub-teams: project management; change management; communication with frontline	 Potential need for more project managers with black belt/lean operations experience
	Improve performance management practices using workshops, people analytics, and other tools	• Q2 2021	 Frontline operations team: familiarity with relevant technologies and procedures 	 May require greater technical knowledge
	Refine and scale new practices, monitoring KPIs to validate impact	• Q2 2021	Frontline operations sub-teams: project management; ability to leverage data to effectively monitor KPIs	Need to build digital/ analytics team and incorporate with
			 Digital/Analytics: ability to support data collection and analysis in partnership with operations teams 	existing strategy

SOLIPCE: Export insight



1.14 Customer: digitalize customer journeys

Digitalize customer journeys



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Identify key customer journeys and quantify magnitude of break-points for each, using advanced analytics	• Q4 2022	 Customer: knowledge of key customer journeys and needs Digital/Analytics: financial modeling; data science 	Need to build digital/analytics team that includes data scientists/architects
Imple- mentation Planning	Conduct qualitative analysis (e.g., interviews and surveys on pain points) to generate customer insights	• Q4 2022	 Customer: customer interviews; testing/iteration Regulatory/Legal: familiarity with regulatory and legal stipulations for data collection from customers 	Customer team may require additional resources
	Develop a digital operations strategy that identifies specific technologies for each customer journey	• Q4 2022	Customer: project management; market research	Customer team may require additional resourcing
	Stand up agile development teams that collaborate with customers to develop MVPs (minimum viable products) to test and iterate new ideas (e.g., beta- testing apps; new Internet platforms, etc.)	• Q4 2022	 Customer: project management; design thinking; agile thinking; thorough understanding of customer needs Digital/Analytics: software development; software engineering 	Potential need for more project managers with black belt/agile operations experience and customer knowledge
Imple- mentation	Pilot digital solutions and test with customers on new journeys	• Q1-Q2 2023	Customer: project management; communication with frontline teams and customers	Potential need for project managers with greater digital fluency
	Continue deployment of digital solutions that shift customers to digital self-service through intuitive web- and app-based solutions for key journeys (e.g., bill payment, sign-up-and-move, outages)	• Q2-Q4 2023	 Customer: project management; acute sensitivity to customer needs Digital/Analytics: technical knowledge of digital technologies and customer needs Communications: ability to message key changes to customers 	Need to build digital/analytics team focused on implementation
	Collect data to track success of new technology rollout	• Q2-Q4 2023-2030	Digital/Analytics: data collection, storage, and monitoring	Need to build digital/analytics team
	Refine and scale new practices, monitoring KPIs to validate impact	• Q4 2023-2030	 Digital/Analytics & Customer: knowledge of relevant technologies and specifications; effective communication with frontline teams 	Need to build digital/analytics team



1.15 Customer: deploy automation

Deploy automation

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Assemble a customer automation working team to spearhead this initiative	• Q4 2022	Customer: project management	 Potential need for more project managers with black belt/exp. to implement strategy
	 Issue RFI for vendor (pre-contract) to help identify, size, and prioritize use cases 	• Q4 2022	 Customer: contractor management Procurement: vendor communications; experience in RFIs 	 May require greater cross- functional collaboration between Customer/Procurement
Imple- mentation Planning	Conduct assessment of opportunity areas and highest-value use cases (with contractor)	• Q4 2022	Customer: project management	Requires contractor support
	Develop change management plan and communicate with customer workforce	• Q4 2022	Customer: change management; effective communication with workforce	Requires additional change management capabilities
	Design a capability-building program for customer support workforce	• Q4 2022	Customer: project management; talent development; workforce curriculum development	Need to identify session leaders
	 Identify and negotiate contract with third-party providers of automation solutions, as well as business process outsourcing (BPO)¹ 	• Q4 2022	 Customer: project management; technical knowledge Procurement: excellence in negotiations and vendor selection, as well as knowledge of best providers of automation solutions and BPO 	 May require greater cross- functional collaboration between Customer/Procurement
	 Launch end-to-end automation sprints, leveraging the appropriate automation solutions (e.g., RPA, machine learning, etc.) 	• Q1-Q2 2023	 Customer: project management; change management Digital/Analytics: technical knowledge of automation tools 	 Potential need for more project managers with black belt experience to implement strategy Need to build digital/analytics
Imple- mentation				team
	Develop infrastructure to provide ongoing automation support	• Q2-Q3 2023	Digital/Analytics: technical knowledge of automation tools	Need to build digital/analytics team
	Monitor performance and impact and continue rollout of automation across customer BU	• Q4 2023-2030	Customer: project management	 Potential need for more project managers with black belt experience to implement strategy Need to build digital/analytics team

1 For further detail on procurement activities, see the strategic sourcing initiative



1.16 Customer: demand management

Demand	management	e e

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Perform diagnostic of existing analog meters, as well as market for smart meters 	• Q3 2020	 Customer: knowledge of customer care best practices Water: technical expertise in smart metering 	 May require greater technical expertise
	 Develop neighborhood-level rollout prioritization plan for smart meter deployment 	• Q3 2020	 Water: technical expertise in smart metering; route planning 	 May require greater technical expertise
Imple- mentation Planning	 To address short-term needs for manual reads, develop integrated WMS/route plan to improve work planning and optimize deployment of personnel based on skill level relative to task (i.e., match less-skilled workers to basic jobs) through analog improvements or technical overhaul 	 Q3 2020 - analog changes to scheduling Q3 2020- Q3 2023 - full technical overhaul 	 Water/Customer: work planning; route planning; scheduling Digital/Analytics: knowledge of WMS/route planning software and tools; technical expertise 	Need to build digital/analytics team
	Develop plan for improved controls to reduce spend for reverification activity in meter reads	• Q3 2020	 Revenue: knowledge of best practices in billing QC Water/Customer: knowledge of meter read protocols/routes 	Revenue team may require additional resources
	 Develop control tower process to track spend on water meter reads and streamline spend authority 	• Q4 2020	 Customer: project management; knowledge of team needs Procurement: ability to provide commercial perspective as needed 	 Need to build digital/analytics team
	 Compile meter read data in a centralized database that allows for more effective decision-making 	• Q4 2020-Q1 2021	 Customer: project management; database administration Digital/Analytics: data architecture; data analysis 	 Need to build digital/analytics team
Imple- mentation	Deploy smart water meters to eliminate manual meter reading activities	 Q4 2020-Q3 2021 (or beyond) 	Water/Customer: project management; change management	 Need project managers with experience in operational excellence/capital deployment
	 Upskill the customer services reps to reduce need for field visits and preempt the switch to smart water meters 	• Q1 2021	Customer: training skills; curriculum development	 Customer team may require additional resources
	 After deployment of smart meters, measure reduced truck rolls by neighborhood 	• Q3 2021-Q4 2030	 Water: technical expertise in smart metering; data analysis 	 Customer team may require additional resources



G&A: maximize organizational effectiveness



Maximize organizational effectiveness

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Establish efficiency G&A working team or transformation office	• Q2 2021	G&A efficiency working team: project management; talent development	Need to assemble ad hoc team
Imple- mentation Planning	Identify areas of overlap between the work G&A teams do	• Q2 2021	G&A efficiency working team: project management; work planning	 Potential need for more project managers with black belt/lean operations experience to implement strategy
—	 Host workshops to understand pain points and areas of overlap; map core processes and key activities G&A teams perform 	• Q2 2021	G&A efficiency working team: effective communication with workforce; experience in organizational redesign	Need to identify session leaders
Imple- mentation	 Based on bottom-up assessment, align on future-state organization structure that eliminates and addresses overlaps 	• Q3 2021	G&A efficiency working team: lean operations and organizational redesign experience	 Potential need for more project managers with lean operations experience to implement strategy
	Communicate changes to relevant stakeholders	• Q3 2021-Q3 2022	G&A efficiency working team: effective communication with workforce	 No major gaps identified; may require additional resourcing



G&A: deploy automation

Deploy automation



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Assemble an automation working team to spearhead this initiative across G&A functions (e.g., Procurement, Finance, Legal), with representation from each 	• Q3 2022	G&A team leaders: project management	 Potential need for more project managers with black belt/experience to implement strategy
Imple-	 Issue RFI for vendor (pre-contract) to help identify, size, and prioritize use cases 	• Q3 2022	 Working team: contractor management Procurement: vendor communications; experience in RFIs 	 May require greater cross- functional collaboration
mentation Planning	 Conduct assessment of opportunity areas and highest-value use cases 	• Q3 2022	Working team: project management	 Working team may require additional resources/coordination
	 Develop change management plan and communicate with workforce 	• Q3 2022	 Working team: change management; effective communication with workforce 	 Requires additional change management capabilities
	Design a capability-building program for workforce	• Q3 2022	Working team: project management; talent development; workforce curriculum development	 Need to identify session leaders
	 Identify and negotiate contract with third-party providers of automation solutions, as well as business process outsourcing (BPO)¹ 	• Q3 2022	 Working team: project management; technical knowledge Procurement: excellence in negotiations and vendor selection, as well as knowledge of best providers of automation solutions and BPO 	May require greater cross- functional collaboration
Imple- mentation	 Launch end-to-end automation sprints, leveraging the appropriate automation solutions (e.g., RPA, machine learning, etc.) 	• Q4 2022-Q1 2023	 Working team: project management; change management Digital/Analytics: technical knowledge of automation tools 	 Potential need for more project managers with black belt experience to implement strategy
				 Need to build digital/analytics team
	 Develop infrastructure to provide ongoing automation support 	• Q1-Q2 2023	 Digital/Analytics: technical knowledge of automation tools 	 Need to build digital/analytics team
	 Monitor performance and impact and continue rollout of automation across business units 	• Q3 2023-2030	Working team: project management	 Potential need for more project managers with black belt experience to implement strategy
1 For further d	letail on procurement activities, see the strategic sourcing in ert insights	itiative		 Need to build digital/analytics team



G&A: Technology service (TS) delivery transformation

TS delivery transformation



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Building a bottom-up cost analysis of all IT resources and FTE responsibilities	• Complete – Q4 2019	 IT: financial management; technical understanding of TS needs across the organization 	 May require additional technology skills
Imple- mentation Planning	Benchmark existing TS against industry best practices	• Q4 2019	IT: understanding of utility peers' operational IT strategies	 No major gaps identified; may require additional resourcing
	Design a workforce strategy of the future	• Q4 2019	• IT: effective communication with workforce; technical understanding of TS needs across the organization	 No major gaps identified; may require additional resourcing
	Based on bottom-up assessment, realign resources to core competencies and/or other technology needs throughout the business	• Q1 2020	IT: project management	 No major gaps identified; may require additional resourcing
Imple- mentation	 Begin strategic sourcing activities for TS solutions¹ 	• Q1 2020	Procurement: strategic sourcing	 Need to improve vendor management and governance capabilities
	 Monitor TS delivery using digital and analytic tools, as well as user feedback (e.g. from qualitative surveys) to relevant teams across the organization 	• Q1 2020	IT: governance; project management	 May require establishment of a project management office (PMO)

1 For further detail on procurement activities, see the strategic sourcing initiative SOURCE: Expert insights



1.20 G&A: advanced supply chain



Advanced supply chain

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Develop working team to lead advanced supply chain efforts to optimize both warehouse efficiency and inventory 	• Q1 2023	Procurement: project management; talent development	 Need to assemble sub- team within larger procurement function
	 Conduct diagnostic of operational performance through site observations at warehouses 	• Q1 2023	 Supply chain working team: experience observing sites and monitoring performance 	 No major gaps identified; may require additional resourcing
	 Identify key levers for operational improvement at warehouses (e.g., work management systems, automation, waste reduction) 	• Q1 2023	 Supply chain working team: supply chain expertise; strategic planning 	 No major gaps identified; may require additional resourcing
Imple- mentation	 Select new WMS and automation tools to improve warehouse efficiency 	• Q1 2023	• Supply chain working team: experience observing sites and monitoring performance	 May require greater coordination between
Planning			IT: knowledge of system requirements and specs	supply chain functions/IT
	 Conduct full diagnostic of inventory to determine its exact composition and size 	• Q1 2023	Supply chain working team: inventory management	 No major gaps identified; may require additional resourcing
	 Create a data lake with past usage data for inventory 	• Q1 2023	 Advanced supply chain working team: inventory management 	 Need to build digital/analytics team
			IT: data architecture; systems engineering	
	 Negotiate contracts for WMS and supply chain automation services 	• Q1 2023	Procurement: contract negotiation	 May require greater technical knowledge
			 IT/supply chain working team: knowledge of system technical specifications 	technical knowledge
	 Procure WMS and supply chain automation services¹ 	• Q2 2023	 Procurement: vendor management 	 May require greater
			 IT/supply chain working team: knowledge of system technical specifications 	technical knowledge
Imple- mentation	 Deploy warehouse redesign and automation solutions as appropriate 	• Q2-Q4 2023	Supply chain working team: project management	 May require project managers with cross- functional capabilities
	 Determine optimal inventory and adjust purchasing accordingly 	• Q2-Q4 2023	 Advanced supply chain working team: inventory management Digital/Analysis: data handling and analysis 	 May require improved inventory management capabilities
	 Implement appropriate controls (e.g., auto reorder logic) to ensure inventories are within the appropriate levels 	• Q2-Q4 2023	Advanced supply chain sub-team: inventory optimization; materials planning	 May require additional resources in supply chain team

1 For further detail on procurement activities, see the strategic sourcing initiative



1.21 G&A: demand management

	Demand management			
	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
Imple- mentation Planning	 Conduct bottom-up diagnostic to identify areas of biggest spend (e.g., office supplies, furniture, subscriptions, etc.) for each G&A-related business unit (e.g., Finance, Legal) 	• Q2 2021	 G&A department leaders: managers with knowledge of day-to-day operations/unique plant design Finance: financial modeling; data analysis 	 May require further centralized knowledge and coordination at department level
	 Itemize overall spend across major categories and develop framework to define which work and materials are necessary 	• Q2 2021	 G&A department leaders: managers with knowledge of day-to-day operations/unique plant design 	 May require further centralized knowledge and coordination at department level
	 Assess optimal mix between contracted and insourced work (e.g., consider insourcing smaller projects) 	• Q2 2021	 G&A department leaders: knowledge of materials needs; work planning; understanding of labor contracts 	 May require further centralized knowledge and coordination at department level
	 Conduct deep-dive analyses to prioritize major categories for demand management depending on business unit needs 	• Q2 2021	 G&A department leaders: understanding of department/team needs; strategic planning 	 May require additional resources for each department/business unit
	Develop strategy to control spend	• Q3 2021	 G&A department leaders; Procurement: cross- functional strategic planning 	 Requires cross-functional planning
	 Stand up Spend Control Tower in each department with regular cadence of meetings and culture of "no" 	• Q3 2021-2030	 G&A department leaders: project management; knowledge of team needs Procurement: ability to provide commercial perspective 	 Requires cross-functional team in each department with input from
			as needed	Procurement
	Deploy tiger teams to develop fact base, conduct market research, and reduce spend across	• Q4 2021-2030	 G&A department leaders: technical knowledge of spend categories; understanding of market for relevant materials 	Requires cross-functional teams with subject matter
Imple- mentation	priority categories		 Procurement: ability to provide commercial perspective as needed 	expertise
	Undertake contractor spend reduction program	• Q4 2021	 G&A department leaders: work planning; understanding of day-to-day operating needs 	 May require additional resources for each department/business unit
	Undertake rental equipment/supplies spend program	• Q4 2021	 G&A department leaders: fleet optimization; equipment management 	 May require additional resources for each department/business unit

SOURCE: Expert insights



1.22 Strategic sourcing across business units



Strategic sourcing

	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Develop a robust spending cube (i.e., analysis of current spend from variety of angles) 	• Q2 2021	 Procurement: centralized repository knowledge of current organization-wide spend 	 May require further centralized knowledge and coordination
			Finance: financial modelling; data analysis	 May require new cross- functional sourcing team
	 Develop categories that reflect existing spend patterns and exposure to specific suppliers (e.g., critical equipment; MRO; contractors; office supplies) 	• Q2 2021	 Procurement: understanding of current agreements and suppliers across business units and activities; strategic planning; ability to collaborate cross-functionally 	Procurement team may required additional resources
	 Conduct preliminary sequencing of categories(e.g., prioritization based on current spend, contracts up for bid, etc.) 	• Q2 2021	 Procurement: strategic planning; understanding of current agreements and suppliers across business units and activities 	Procurement team may require additional resources
Imple- mentation	 Identify subject matter experts (SMEs) and create cross- functional working teams for each category 	• Q2 2021	 Procurement: ability to collaborate and build relationships cross- functionally within organization 	Procurement team may require additional resources
Planning				 Requires creation of cross- functional working teams
	Clarify legal/regulatory requirements for sourcing	• Q2 2021	 Regulatory/Legal: knowledge of relevant procurement regulatory and legal requirements 	 Regulatory/legal teams may require additional resources
	 Conduct a supply market analysis for each category to build a fact base around most cost-effective suppliers 	• Q2 2021	 Procurement, along with BU leads: knowledge of market for each spend category; technical knowledge 	 Procurement team may require additional resources
	 Develop category strategy based on SME perspective and analyses 	• Q2 2021	Procurement: strategic planning	 Procurement team may require additional resources
	 Identify aspirational savings capture opportunity for every spend category 	• Q2 2021	 Procurement: strategic planning Finance: centralized knowledge of organization-wide budgets 	 May require cross-functional planning
	Launch requests for information (RFIs) and improve data collection to refine prioritization	• Q3-Q4 2021	Procurement: excellence in vendor communication; vendor workshops	May require improved data collection process
	Launch multi-level requests for proposal (RFP) and/or e- auctions to maximize savings within each category	• Q1-Q2 2022	Procurement: expertise in RFPs; vendor management	 May require upskilling in e- auctions
lmple-	Conduct negotiations with vendors	• Q2 2022	Procurement: excellence in vendor negotiations	May require further development of negotiation skills
mentation	Achieve principal agreement with vendor(s)	• Q3 2022	Procurement: excellence in vendor negotiations/contracts	 No major gaps identified; may require additional resourcing
	Finalize and sign contract(s)	• Q3 2022	 Procurement: excellence in contracts Legal: knowledge of applicable contract law 	 No major gaps identified; may require additional resourcing
	Set up a systematic supplier management process (e.g., quarterly reviews)	• Q3 2022-2030	Procurement: vendor communication; contract analysis	 No major gaps identified; may require additional resourcing

Note: Currently testing with FTI for Florida-specific regulatory considerations

System Resiliency



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Define overall goals and metrics for capital investments in system resiliency	Q1 2020	Energy/Water: business case analysis expertise; capital planning expertise; technical expertise	 No major gaps identified; may require additional resourcing
Implemen-	 Conduct a detailed capital planning study to define the set of investments needed based on forecasted assessment of future needs and risks (e.g., microgrids; feeder upgrades) 	Q1 2020	Energy Planning/Water Planning: capital planning expertise	May require contractors for resourcing or expertise in technology
tation Planning	 Develop stakeholder engagement plan for regulators, employees, and ratepayers 	Q1 2020	 Communications: Excellence in community engagement and stakeholder management Energy/Water: technical knowledge 	 Communications team may require additional resources
	 Develop regulatory case that demonstrates the benefits to ratepayers and determines proposed recovery mechanism, particularly in accordance with FPSC's planning requirements 	Q2 2020	 Regulatory: understanding of potential benefits to rate payers, as well as implications for rate basing 	 Current regulatory team may require additional resources, so contractor may be required
	Secure regulatory approval and appropriate permits	Q3 2020	 Regulatory: prior experience developing rate filings and defending rate cases 	 Current regulatory team may require additional resources
Pre-deploy- ment	 Decide on contract type and scope (e.g., fee structure, EPC vs construction) 	Q3 2020	Procurement: Excellence in contract design	 No major gaps identified; may require additional resourcing
implemen- tation	Select contractor based on qualifications	Q3 2020	Procurement: Excellence in vendor selection	No major gaps identified; may require additional resourcing
	 Procure relevant technology in accordance with system resiliency plan 	Q3 2020	Procurement: Procurement expertise	May need to develop technical expertise
	Work with contractor to design projects that minimize total cost of ownership (TCO)	Q4 2020 – Q4 2030	Energy/Water: project management; contractor management	 Requires project managers with expertise in contract/project mgmt. for complex capital projects
Deploy-ment	 Monitor contractor activity based on agreed-upon deadlines and milestones 	Q4 2020 – Q4 2030	Energy/Water: project management; contractor management	 May require project managers with cross- functional capability
	Ensure skills transfer between contractor and JEA	Q4 2020 – ongoing	 Energy: project management; talent development; technical expertise to develop curriculum alongside contractor 	 May need to develop technical expertise alongside contractor
	 Maintain and service new infrastructural upgrades using a detailed, updated tracking system 	Q4 2020 – ongoing	 Energy/Water: Technical knowledge of maintenance requirements Digital/analytics: knowledge of data collection and storage 	 May require field resource training, or outsourced maintenance Need to build a digital/analytics team

SOURCE: Expert insights



Grid Flexibility



	Activities	Timing ¹	Required Team(s)/Capabilities	Risk to manage
	Define goals, metrics (e.g., reliability metrics, system costs, customer satisfaction), and key capabilities	Q1 2020	Energy/Energy Planning: business case analysis expertise; capital planning; project controls	No major gaps identified; may require additional resourcing
	Conduct technical studies to determine specifications for equipment (e.g., what type of voltage regulators are available)	Q1 2020	 Energy/Energy Planning: technical engineering knowledge of grid components 	 No major gaps identified; may require additional resourcing
Implemen- _ tation	 Build a detailed capital plan for grid redesign to prioritize necessary investments based on forecasted assessment of future needs/risks (e.g., which feeders need upgrades, where to position line sensors) 	Q2-Q3 2020	 Energy Planning: Capital planning; engineering expertise Energy: project mgmt. in major capital projects; project controls IT/OT: expertise in integrating and securing IT/OT systems 	May require contractors for resourcing or expertise in technology
Planning	 Develop stakeholder engagement plan for regulators, employees, and ratepayers 	Q2-Q3 2020	Communications: Excellence in community engagement and stakeholder management Energy: technical knowledge	Communications team may require additional resources , so contractor may be required
	 Develop regulatory case that demonstrates the benefits to ratepayers and determines proposed recovery mechanism 	Q3-Q4 2020	 Regulatory/Energy: prior experience developing rate filings/defending rate cases 	 Regulatory team may require additional resources
	Secure regulatory approval and appropriate permits	Q3 2020	 Regulatory: prior experience developing rate filings and defending rate cases Environmental: permitting expertise 	 Regulatory team may require additional resources No major gaps identified; may require additional resourcing
	 Decide on contract type and scope (e.g., fee structure, EPC vs construction) 	Q3 2020	Procurement: Excellence in contract design	 No major gaps identified; may require additional resourcing
Pre- deployment	Select contractor based on qualifications relevant to project	Q3 2020	Procurement: Excellence in vendor selection	No major gaps identified; may require additional
implement- tation	 Train linemen on working with new assets (e.g., self-healing systems) 	Q3 2020	Energy: Technical expertise to develop training curriculum	resourcing • May need to develop technical expertise
	 Procure relevant technology (e.g., capacitor banks, voltage regulators, control devices, new feeders) in accordance with plan 	Q4 2020	Energy/Procurement: Knowledge of new assets to create specs for sourcing	May need to develop technical expertise
Implemen- tation	Work with contractor to design projects that minimize total cost of ownership (TCO)	Q4 2020 – Q4 2030	Energy: Contractor management	 Need project managers w. contract mgmt. expertise
	 Monitor contractor activity based on agreed-upon deadlines and milestones 	Q4 2020 – Q4 2030	Energy: Contractor management	 Need project managers w. contract mgmt. expertise
	Ensure skills transfer betweenn contractor and JEA	Q4 2020 – ongoing	 Energy: project management; talent development; technical expertise to develop curriculum alongside contractor 	May need to develop technical expertise alongside contractor
	 Maintain and service new infrastructural upgrades using a detailed, updated tracking system 	Q4 2020 – ongoing	 Energy: Technical knowledge of maintenance requirements Digital/Analytics: knowledge of data collection and storage; integrated with existing IT plan 	 May require field resource training, or outsourced maintenance Need to integrate in IT strategy

1 Pre-deployment implementation for certain activities can occur in tandem with tandem for later phases



2.3 Advanced Asset Management

Advanced Asset Management



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Define use cases/metrics for capital investments in advanced asset management software and hardware in line with creating O&M efficiencies	Q1 2020	 Digital/Analytics: business case analysis expertise; project management Energy Planning/Water Planning: capital planning expertise 	Need to build digital/analytics team
	 Determine relevant data architecture and overall vendor capabilities to support infrastructure through vendor workshops pre-RFP 	Q1 2020	 Digital/Analytics: excellence in data architecture and software engineering Energy Planning/Water Planning: knowledge of key pain points requiring AAM 	Need to build digital/analytics team
Implementatio n Planning ¹	 Build a detailed capital plan for asset management that defines the set of investments needed based on infrastructural needs (e.g., transformer monitoring) 	Q1 2020	Energy Planning/Water Planning: Capital planning expertise	May require contractor support
	 Develop stakeholder engagement plan for regulators, employees, and ratepayers 	Q1 2020	Communications: Excellence in community engagement and stakeholder management Energy/Water: technical knowledge	May require contractors, but most capabilities likely in-house
	Develop regulatory case that demonstrates the benefits to ratepayers and determines proposed recovery mechanism	Q2 2020	 Regulatory (with support from Energy/Water): prior experience successfully developing rate filings and defending rate cases 	Current regulatory team may require additional resources , so contractor may be required
	Secure regulatory approval	Q3 2020	Regulatory: prior experience successfully developing rate filings and defending rate cases	Current regulatory team may require additional resources
	 Decide on contract type and scope (e.g., fee structure, EPC vs construction) 	Q3 2020	Procurement: Excellence in contract design	 No major gaps identified; may require additional resourcing
Pre- deployment	Select contractor based on qualifications relevant to project	Q3 2020	 Procurement: vendor selection Digital/Analytics: technical knowledge 	 No major gaps identified; may require additional resourcing
implement- tatoin	 Procure relevant technology (e.g., digital sensors for transformer monitoring) and data architecture 	Q3 2020	Digital/Analytics & Energy/Water: technical expertise Procurement: procurement expertise	May need to develop technical expertise
	Work with contractor to design projects that minimize total cost of ownership (TCO)	Q4 2020 – Q4 2030	Digital/Analytics: Contractor management	 Requires project managers with expertise in contract/project mgmt. for complex capital projects
December 1	 Monitor contractor activity based on agreed-upon deadlines and milestones 	Q1 2021 – Q4 2030	Digital/Analytics: Contractor management; project management	Need to build digital/analytics team
Imple- mentation	Ensure skills transfer betweenn contractor and JEA	Q1 2021 – ongoing	 Water: project management; talent development; technical expertise to develop curriculum alongside contractor 	May need to develop technical expertise alongside contractor
	 Maintain and service new infrastructural upgrades using a detailed, updated tracking system 	Q1 2021 – ongoing	Digital/Analytics: knowledge of technical specifications	Need to build digital /analytics team

1 These three stages roughly correspond to the scoping, engineering, and execution phases, respectively, of a large capital deployment project



2.4 Septic Tank Phase Outs

Septic Tank Phase Outs



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	 Review 22,000 priority tanks and develop deployment schedule based on location and need 	Q4 2016	 Water Planning: business case analysis expertise; capital planning expertise 	May require contractor support
Implemen-	 Develop path forward for remaining 43,000 tanks in conjunction with City 	Q4 2016	Water Planning: capital planning expertise	May require contractor support
tation Planning	 Identify cost-effective replacement alternatives to traditional gravity sewerage system (e.g., pressure sewers, vacuum sewers) and build financial models to reflect these alternatives 	Q1-Q3 2017	 Water/Water Planning: technical expertise in sewerage Digital/analytics: financial modeling 	Need to build digital/analytics team
	 Building off existing communication efforts, conduct outreach, including public hearings and information sessions, to provide affected communities with relevant information about septic tank replacement, and secure construction approval from 70% of property owners 	Q1-Q2 2018	Water/Water Planning: project management; community engagement Communications: excellence in public service announcements and campaigns	Current water and communications teams may require additional resources
Pre-deploy-	 Secure construction easing and other relevant permits for septic tank replacement and sewerage installation 	Q2-Q3 2018	Water/Water Planning: permitting expertise	 No major gaps identified; may require additional resourcing
ment implemen- tation	 Survey neighborhoods to locate property lines, other utility assets, and wetlands, in order to deploy sewerage lines 	Q1 2019-Q1 2020	Water: contractor management; engineering; surveying	Requires contractor support
	Design project boundary area based on Duval County Health Department's identified septic tank failure areas	Q3 2019-Q2 2020	Water/Water Planning: mapping and surveying	Requires contractor support
	 Procure sewerage pipes that replace septic tanks and fit design requirements 	Q3 2019	Procurement: technical knowledge of sewerage	May require contractor support
	Remove of septic tanks and install new sewerage infrastructure (or outsource removal/installation to contractor)	Q4 2020- 2030	Water: project management; contractor management	 Requires project managers with expertise in contract/project mgmt. for complex water capital projects
Deployment	Ensure disposal of septic tanks and waste materials is in compliance with environmental, legal, and ethical standards	Q4 2020- 2030	Water/Regulatory: excellence in removal and disposal procedures and regulations	 May require contractor support and additional regulatory knowledge
	Integrate new pipes to existing sewerage infrastructure within JEA service area	Q4 2020- 2030	Water: technical knowledge of specs of new and old infrastructure	No major gaps identified; may require additional resourcing
	Monitor sewerage system for issues and dispatch maintenance accordingly	Q4 2020- 2030	Water: excellence in monitoring upgraded systems (e.g., site visits)	No major gaps identified; may require additional resourcing

SOURCE: JEA website; "Biltmore C Proposed Water and Sewer Improvement Project," January 26, 2017; "Beverly Hills Proposed Sewer Improvement Project," February 1, 2018. There are other priority areas with different timings, but Beverly Hills was identified as a proxy for the remainder of the project as it is already underway.



2.5 Alternative Water Supply

Alternative Water Supply



	Activities	Timing	Required Team(s)/Capabilities	Risk to manage
	Define overall goals and metrics for capital investments in alternative water supply	Q1 2024	Water: business case analysis expertise	No major gaps identified; may require additional resourcing
Implemen- tation	Analyze precedent within Florida for such initiatives and adopt best practices for JEA	Q1 2024	Water/Business Development/Regulation: knowledge of Florida landscape for alternative water	Need to build business development function
	 Create detailed assessment of water demand for North and South grid service areas and ensure that capital resources are allocated accordingly 	Q1 2024	Water: business case analysis expertise; capital planning expertise	May require contractor support
Planning	 Develop stakeholder engagement plan for regulators, employees, and ratepayers 	Q1 2024	Communications: Excellence in community engagement and stakeholder management Energy/Water: technical knowledge	May require contractors, but most capabilities likely in-house
	Develop regulatory case that demonstrates the benefits to ratepayers and determines proposed recovery mechanism	Q2 2024	Regulatory: prior experience developing rate filings and defending rate cases	Regulatory team may require additional resources
	Secure regulatory approval	Q3 2024	Regulatory: prior experience successfully developing rate filings and defending rate cases	Regulatory team may require additional resources
Pre-deploy- ment implemen- tation	Select external partner for design and build of new infrastructure, and sign relevant contracts	Q4 2024	Water: technical expertise to select partner Procurement: excellence in negotiations; knowledge of landscape for alternative water supply	Procurement team may require additional resources
	Procure relevant materials	Q4 2024	Procurement: procurement expertise	No major gaps identified; may require additional resourcing
	Contractor to begin installation of alternative water supply in North and South grid	Q1 2025- 2030	Water: project management	 Requires project managers with expertise in contract/project mgmt. for complex capital projects
Deploy-ment	Monitor contractor activity based on agreed-upon deadlines and milestones	Q1 2025- 2030	Water: contractor management	No major gaps identified; may require additional resourcing
	Ensure skills transfer between contractor and JEA through development of in-house operating experience with the 1MGD startup facility on the South Grid	Q4 2025- 2030	Water: project management to ensure coordination between contractor and JEA workforce; talent development; technical expertise to develop curriculum alongside contractor	May need to develop technical expertise and coordination with contractor

SOURCE: Expert insights



Expand incentives for electric vehicles and chargers

Expand incentives for EVs/chargers



	Activities	Timing ¹	Required team(s)/capabilities	Risk to manage
	 Determine appropriate rebate based on customer size and utilization through EV penetration potential analysis in service territory by customer segment, affordability, preferences, etc. 	• Q2 2020	Business Development: deep knowledge of Jacksonville market, as well as regional and national trends for consumer EV uptake	Need to build business development function
	Develop regulatory case that demonstrates the benefits to ratepayers and determines proposed recovery mechanism (if necessary)	• Q2 2020	Regulatory: understanding of potential benefits to rate payers, as well as implications for rate basing	No major gaps identified; may require additional resourcing
Imple- mentation Planning	Design and structure program based on regulatory case and business development input	• Q2 2020	Business Development: strategic planning expertise	Need to build business development function
	Develop strategy to promote and market the opportunity to residential customers sub-segments, e.g., urban, semi-urban, low income, etc.	• Q2 2020	 Customer: deep awareness of customer priorities through market research and customer engagement; ability to lead customer focus groups 	Customer team may need additional expertise or resources
	Identify potential partners and onboard key stakeholders and experts to engage with them	• Q2 2020	Business Development: ability to interface with EV stakeholders (e.g., car retailers; battery wholesalers; environmental groups/experts)	Need to build business development function
	Secure regulatory approval to extend rebates and discounts to customers (if necessary)	• Q3 2020	 Regulatory: prior experience successfully developing rate filings and defending rate cases 	No major gaps identified; may require additional resourcing
Pre- deployment implementation	Develop agreements with partners identified during planning	• Q3 2020	Business Development: expertise in negotiation and deal structuring	Need to build business development function
Imple- mentation	 Acquire customers for rebate sign-ups through a targeted marketing and sales campaign through partnership with EV OEMs, dealerships, and retailers 	• Q4 2020 – Q3 2025	 Customer: expertise in marketing and sales campaigns Business Development: cross-functional collaboration with customer team to ensure that partners can interface with customers 	Need to build business development function
	Administer program, processes rebates, performs regulatory reporting, provide customer service	• Q4 2020 – Q3 2025	 Energy: project management; billing/processing Regulatory: knowledge of reporting requirements for regulators 	No major gaps identified; may require additional resourcing
	Evaluate and analyze program effectiveness to strategically expand program	• Q4 2020 – Q3 2025	Business Development: project management; monitoring and evaluation	Need to build business development function

1 Refers to calendar vear



3.2 Build out public DC FAST & L2 charging

Build out public DC FAST/L2 charging



	tivities	Timing ¹	Required team(s)/capabilities	Risk to manage
	Identify addressable market for DC FAST/L2 installation based on bottom-up assessment of Jacksonville EV landscape, including EV penetration potential analysis in service territory by customer segment, affordability, preferences, etc.	• Q3 2020	 Business Development: deep knowledge of Jacksonville market, as well as regional and national trend for consumer EV uptake, and innovations in charging equipment 	Need to build business development function
Imple-	Determine optimal charger placement using advanced geospatial analytics and coordinate locations with city planners and regulators	• Q3 2020	 Energy: geospatial analysis; technical expertise to understand hardware specifications; urban planning 	May need to develop technical expertise
Flaming	Develop detailed regulatory filing plan and value proposition to ratepayers to submit to regulators (if necessary)	• Q3 2020	 Regulatory: understanding of potential benefits to rate payers, as well as implications for rate basing 	 Regulatory team may require additional expertise or resources
ı	Plan deployment schedule and engineering requirements for charging infrastructure - Analyze potential requirements to JEA grid that	• Q3 2020	Energy Planning: understanding of JEA's capital planning process and the necessary upgrades required for grid based on charging infrastructure load profile	May require project managers with cross-functional capability
	reflect the additional demand from EVs chargers		 Energy: project management to coordinate investment plan and deployment 	
	Secure regulatory approval to operate this business and earn regulated rate of return on capital, set EV charging rates, and sign formal partnership with City (if necessary)	• Q4 2020 – Q1 2021	 Regulatory: prior experience successfully developing rate filings and defending rate cases 	 Regulatory team may require additional expertise or resources
Pre-	Source DC FAST/L2 chargers including determining optimal sourcing strategy	• Q4 2020 – Q1 2021	 Business Development: knowledge of DC FAST/L2 charging market and ability to communicate plan across functions 	 Need to build business development function
deployment implementation	 Develop relationships with retailers of DC FAST/L2 charging equipment and negotiate contracts to serve as a preferred distributor; or 		 Procurement: procurement expertise; contract negotiation; cross- functional collaboration with business development team 	May need to develop technical expertise
	 Procure DC/FAST equipment directly from preferred manufacturers at lowest cost 			
	Install DC FAST/L2 equipment or outsource installation to contractors	• Q2 2021 - 2030	 Energy: technical knowledge of charging infrastructure Procurement: contractor management 	 May require field resource training, or outsourced deployment
	Maintain and service equipment or outsource maintenance to contractor	• Q2 2021 - 2030	 Energy: technical knowledge of charging infrastructure and required maintenance; contractor management 	May need to outsource maintenance

1 Refers to calendar year



Own and operate bus charging infrastructure for Jacksonville's city and public school fleet

Own and operate bus charging infrastructure for Jacksonville's city and public school fleets



	Activities	Timing ¹	Required team(s)/capabilities	Risk to manage
	Develop regulatory case that demonstrates the benefits to ratepayers and determines proposed recovery mechanism (if necessary) Incorporate full potential benefits of tax incentives for bus electrification Determine agreement to use operational data from buses to plan future investments	• Q1 2021	 Regulatory: understanding of potential benefits within the current regulatory environment, as well as implications for rate basing Regulatory/Legal: understanding of implications of data usage and privacy regulations 	 Regulatory team may require additional expertise or resources
Imple- mentation Planning	 Select strategic locations in which to install bus charging infrastructure Coordinate locations with city planners and regulators 	• Q1 2021	 Business Development: deep local knowledge of Jacksonville geography and real estate Business Development: geospatial analytics planning 	 Need to build business development function Need to integrate with data and analytics strategy
	Decide method of installation and maintenance (e.g., contract or self-install)	• Q1 2021	 Procurement/Supply Chain: conduct sourcing analysis Business Development: analysis for business case 	 Need to build business development function
	 Plan deployment schedule and engineering requirements for investment Integrate with capital deployment plans for distribution grid upgrades to ensure bus charger demand is supported 	• Q1 2021	 Energy Planning: understanding of JEA's capital planning process and the necessary upgrades required for grid based on charging infrastructure load profile Project Management: cross-functional project manager who can coordinate investment plan and deployment 	 May require project managers with cross-functional capability
Pre-	Secure regulatory approval (if necessary)	• Q2 2022	Regulatory: experience developing rate filings and defending rate cases	 Regulatory team may require additional expertise or resources
deployment implementation	 Assist City in procuring bus charging infrastructure for the right vehicles 	• Q2 2023	 Procurement: knowledge of best electric bus infrastructure providers; contract negotiation; contractor management 	May need to develop technical expertise
	Install bus charging infrastructure across the City of Jacksonville (or contractor to begin installation)	• Q4 2021 - 2030	 Energy: technical knowledge of bus charging infrastructure and its component parts Energy: contractor/project management 	May require training of field workers to install chargers
Imple- mentation	Maintain bus charging infrastructure	• Q4 2021 – ongoing	 Energy: technical knowledge of bus charging infrastructure and its component parts Procurement: contractor management if outsourced 	 May need to develop technical expertise May require field resource training, or outsourced deployment
	 Use operational data on ridership, charge times, and distance traveled on buses to help plan future investments 	• Q1 2024 - ongoing	Energy Planning: analytics & data management	 Need to incorporate with existing data and analytics strategy



Build an L2 home charger installation business

L2 home charger installation business



	Activities	Timing ¹	Required team(s)/capabilities	Risk to manage
Imple- mentation Planning	Build regulatory case for approval of unregulated business alongside regulated business	• Q3 2020	 Regulatory: understanding of distinct implications of unregulated business activities for JEA, the City of Jacksonville, and ratepayers 	 Regulatory team may require additional expertise or resources
	Identify addressable market for L2 installation based on bottom-up assessment of Jacksonville EV landscape through EV penetration potential analysis in service territory by customer segment, affordability, preferences, etc.	• Q4 2020	 Business Development: deep knowledge of Jacksonville market, as well as regional and national trends for consumer EV uptake Customer: customer insight analytics; ability to lead focus groups and customer research sessions 	 Need to build business development function May need to develop additional analytics capabilities in customer
Pre- deployment implementation	 Secure regulatory approval to operate unregulated L2 installation business alongside regulated business 	• Q4 2020	 Regulatory: experience developing filings for unregulated offerings 	 Regulatory team may require additional expertise or resources
	 Develop relationships with retailers of L2 home charging equipment and negotiate contracts to serve as a preferred distributor 	• Q1 2021	Procurement: expertise in contract negotiation and vendor selection	May need to develop technical expertise
	Develop strategy to promote and market the opportunity to residential customers sub-segments, e.g., urban, semi-urban, low income, etc.	• Q1 2021	 Customer: deep awareness of customer priorities through market research and customer engagement; experience developing marketing/sales campaigns 	 Need to ensure customer team is equipped with right knowledge and resources (financial/personnel)
	 Include initiative in overall communications strategy as an example of JEA commitment to innovation and decarbonization 	• Q1 2021	 Communications: ability to communicate value to all stakeholders in the community (e.g., customers, City of Jacksonville, JEA), as well as environmental benefit 	Current communications team may require additional resources for new projects
Imple- mentation	Install L2 home chargers across City of Jacksonville (or outsource to contractor)	• Q2 2021 - ongoing	 Energy: experience installing required L2 equipment Procurement: contractor management 	 May require field resource training, or outsourced deployment
	Bill customers for L2 installation, integrating charges into regular utility bills	• Q2 2021 - ongoing	Customer: billing/invoicing	May require new unregulated billing process/ team
	Maintain charging infrastructure	• Q2 2021 - ongoing	Energy: technical knowledge of bus charging infrastructure and its component parts	May need to develop technical expertise
			Procurement: contractor management if outsourced	 May require field resource training, or outsourced deployment



3.5 Electrify the Port of Jacksonville

Electrify the Port of Jacksonville



	Activities	Timing ¹	Required team(s)/capabilities	Risk to manage
	Evaluate and prioritize non-road and facility electrification opportunities, including but not limited to the Port of Jacksonville	• Q2 2022	 Business Development: advanced financial modelling; knowledge of the market for non-road electrification 	Need to build business development function
	Work with Port of Jacksonville (and any stakeholders for identified opportunities) to conduct diagnostic	• Q2 2022	Business Development: advanced financial modelling; knowledge of the market for non-road electrification	Need to build business development function
Imple- mentation	Develop detailed regulatory filing that demonstrates value proposition to rate-payers and proposed recovery mechanism (if necessary)	• Q2 2022	 Regulatory: understanding of potential benefits to rate payers, as well as implications for rate basing Business Development: advanced financial modelling; knowledge of the 	 Regulatory team may require additional expertise or resources Need to build business development
Planning	 Fully assess financial implications of port project for JEA as input for regulatory filing, using California and non-U.S. examples as benchmarks 		market for non-road electrification	function
	Determine right mix of electric equipment for port needs (e.g., HV machinery vs. fully battery-powered) and the related implications to infrastructure	• Q2 2022	 Energy: deep technical understanding of port infrastructure and non-road electrification Energy Planning: ability to ensure capital allocations to right projects 	May need to develop technical expertise
	Plan deployment schedule and engineering requirements for charging infrastructure and any necessary grid upgrades	• Q2 2022	 Energy Planning: familiarity with overall grid technology and needs; understanding of implications for rate base 	May need to develop technical expertise
	Secure regulatory approval (if necessary)	• Q3 2022	Regulatory: experience developing rate filings and defending rate cases	Regulatory team may require additional expertise or resources
Pre- deployment	 Develop partnerships with stakeholders (e.g., port authority, users) to coordinate electrification (e.g., ensure procurement of electric port equipment matches proposed timeline for charging infrastructure installation) 	• Q3 2022	 Business Development: developing relationships with multiple stakeholders, with acute understanding of their priorities Energy Planning: understanding of JEA's capital planning process 	Need to build business development function
implementation	Negotiate and sign agreements with Jacksonville Port Authority (JAXPORT) to begin electrification	• Q4 2022	Business Development: expertise in negotiation and deal structuring	Need to build business development function
	Include initiative in overall communications strategy as an example of JEA commitment to innovation and decarbonization	• Q4 2022	Communications: ability to communicate value to all stakeholders in the community (e.g., customers, City of Jacksonville, JEA), as well as environmental benefit	Current communications team may need additional resources
	Procure equipment (e.g., non-road electric cranes, cabling, autonomous electric trucks) required specifications	• Q4 2022	Procurement: expertise in procurement, with experience in non-road electrification equipment	May need to develop technical expertise
Imple- mentation	Install charging infrastructure at Port of Jacksonville or outsource installation to contractor	• Q1 2023 - 2030	 Energy: experience installing required equipment Procurement: contractor management 	 May require field resource training, or outsourced deployment



3.6 Install, own, and dispatch behind the meter DG storage



Behind the meter DG storage

	Activities	Timing ¹	Required team(s)/capabilities	Risk to manage
lmple-	 Identify addressable market for behind-the-meter (BTM) installation based on bottom-up assessment of Jacksonville residential landscape 	• Q3 2020	 Business Development: deep knowledge of Jacksonville market, as well as regional and national trend for consumer BTM uptake 	Need to build business development function
	 Develop regulatory case that demonstrates the benefits to ratepayers and determines proposed recovery mechanism (if necessary) 	• Q3 2020	 Regulatory: understanding of potential benefits to rate payers, as well as analysis of potential recovery mechanisms 	 Regulatory team may require additional expertise or resources
mentation Planning	Analyze potential requirements to JEA grid that reflect integration of potential BTM storage	• Q3 2020	 Energy Planning: understanding of JEA's capital planning process and the necessary upgrades based on charging infrastructure load profile 	May need to develop technical expertise
	 Integrate plan for BTM storage deployment with capital deployment plans for distribution grid upgrades 	• Q3 2020	 Energy Planning: understanding of JEA's capital planning process 	 May require additional capital planning support from contractor(s)
	Secure regulatory approval (if necessary)	• Q4 2020	 Regulatory: experience developing rate filings and defending rate cases 	 Regulatory team may require additional expertise or resources
Pre- deployment	Acquire residential customers for sign-up through targeted marketing/sales campaign	• Q4 2020 – Q1 2021	 Customer: expertise in marketing and sales campaigns; awareness of customer needs 	May require knowledge specific to DG storage
	Procure equipment and control software	• Q1 2021	Procurement: expertise in procurement	 May require knowledge specific to DG storage
	Include initiative in overall communications strategy as an example of JEA commitment to innovation and decarbonization	• Q2 2021	 Communications: ability to communicate value to all stakeholders in the community (e.g., customers, City of Jacksonville, JEA), as well as environmental benefit 	Current communications team may require additional resources for new projects
	 Install BTM storage in residential units across the Jacksonville area (or outsource installation to contractor) 	• Q2 2021 – 2030	 Energy: experience installing required BTM equipment Procurement: contractor management 	 May require field resource training, or outsourced deployment
Imple- mentation	 Administer program (e.g., bill customers for BTM services, integrating charges into regular utility bills, provide customer service 	• Q2 2021 – 2030	 Energy: project management; cross-functional collaboration with customer and billing teams 	 No major gaps identified; may require additional resourcing if regulated program
	Run system through remote access, monitor and collect performance data, and maintain system	• Q2 2021 – 2030	 Energy: project management; technical knowledge of system needs and components of DG storage Digital/Analytics: technical knowledge of data collection 	 May require field resource training, or outsourced maintenance
	 Collect and store customer data safely to ensure improvements in service and reliability for batteries 	• Q2 2021 – 2030	 Energy/Data & Analytics: technical knowledge of data collection and storage Regulatory/Legal: familiarity with data privacy regulations 	 Need to build data/ analytics team and incorporate with existing strategy



Build a DG solar installation business for industrial customers

				H
Build DG	solar	installation	business	Щ

	11	
on business	Щ	

	Activities	Timing ¹	Required team(s)/capabilities	Risk to manage
Imple- mentation Planning	 Develop detailed business case Define geographic scope of initiative (e.g., within or without Jacksonville) and segment customers appropriately (e.g., manufacturing, urban office space, large retailers, hospitals, etc.) Determine financing agreement (e.g., PPA, savings sharing) 	• Q2 2021	 Business Development: deep knowledge of Jacksonville C&I market, as well as regional and national trends for consumer DG solar installation Business Development: expertise in negotiation and deal structuring 	Need to build business development function
	Build regulatory case for approval of unregulated business alongside regulated business	• Q2 2021	 Regulatory: understanding of distinct implications of unregulated business activities for JEA, the City of Jacksonville, and ratepayers 	 Regulatory team may require additional expertise or resources
Pre-	Secure regulatory approval	• Q3 2021	 Regulatory: experience developing filings for unregulated offerings 	 Regulatory team may require additional expertise or resources
deployment implementation	 Include initiative in overall communications strategy as an example of JEA's commitment to innovation and decarbonization 	• Q4 2021	 Communications: ability to communicate value to all stakeholders in the community (e.g., customers, City of Jacksonville, JEA), as well as environmental benefit 	Communications team may need resources for new projects
	Market and sell DG solar services to customers in the Greater Jacksonville Area through new and existing channels	• Q1 2022 – ongoing	 Customer: acute awareness of C&I customer needs and preferences; sales competencies specific to C&I customers 	 Need to ensure customer team is equipped with right knowledge and resources (financial/personnel)
	Install DG solar equipment (or outsource installation to contractor)	• Q1 2022 – ongoing	 Energy/new team: experience installing required DG equipment Procurement: contractor management 	 May require field resource training, or outsourced deployment May require separate unregulated business unit team
Imple- mentation	Administer program and bill customers	• Q1 2022 – ongoing	Energy/new team: project management; cross-functional collaboration with customer and billing teams	 May require separate unregulated business unit and customer team
	Maintain and service DG solar equipment	• Q1 2022 – ongoing	 Energy: technical knowledge of DG infrastructure Procurement: contractor management 	 May require field resource training, or outsourced maintenance
	Collect and store customer data safely to ensure improvements in service and reliability	• Q1 2022 – ongoing	 Energy/Data & Analytics: technical knowledge of data collection and storage Regulatory/Legal: familiarity with data privacy regulations 	 Need to build data/analytics team and incorporate with existing strategy





1.8 Install "smart poles," building on JEA's existing "smart streetlights" program

Sm	art	po	e



	Activities	Timing ¹	Required team(s)/capabilities	Risk to manage
	Develop phased roadmap to prioritize streetlights for upgrade	Q4 2021– Q1 2022	Energy Planning: geospatial analytics; understanding of JEA"s capital planning process	 Need to build geospatial analytics capabilities
	Develop plan for use cases and functionalities for data collected	Q4 2021	 Digital/Analytics: excellence in data science; industry experience in telecom 	Need to build data/analytics team
	Assess potential for 5G on poles and other JEA assets	Q4 2021	Energy Planning: industry experience in telecom	May require telecom expertise
Imple- mentation	 Develop business model for telecom including an assessment of potential partners and regulatory considerations 	Q4 2021	 Business Development: industry experience in telecom Regulatory: expertise in telecommunications related regulations 	 Need to build business development function May need telecom expertise
Planning	 Plan deployment schedule and engineering requirements for project 	Q4 2021	 Energy Planning: capital planning; work planning; project management 	May need contractor support
	 Integrate data needs into existing or planned data architecture and strategy 	Q4 2021- Q1 2022	 Digital/Analytics: understanding of data architecture and new system compatibility with existing infrastructure 	Need to build data/analytics team
	 Develop regulatory case that demonstrates the benefits including 5G to ratepayers and determines proposed recovery mechanism (if necessary) 	Q4 2021– Q1 2022	 Regulatory: understanding of potential benefits to rate payers, as well as implications for rate basing 	 Regulatory team may require additional expertise or resources
	Secure regulatory approval for continuation of "smart streetlights" program, addition of new cellular and 5G infrastructure on existing poles, and data usage (if necessary)	Q2 2022	 Regulatory: experience developing rate filings and defending rate cases 	Regulatory team may require additional expertise or resources
	 Deploy pilot installation to test hardware installation and data transmission 	Q4 2021– Q1 2022	 Energy & Digital/Analytics: knowledge of technical specifications for pilot 	May require contractor suppor
Pre- leployment	Include initiative in overall community communications strategy	Q2 2022 - 2030	 Communications: ability to communicate value to all stakeholders in the community (e.g., customers, City of Jacksonville, JEA), as well as environmental benefit 	Communications team may need resources for new project
plementation	Procure hardware and "smart" module, along with additional multifaceted nodes that include cellular service, WiFi, EV charging stations, and crime sensors	Q2 2022 – Q4 2022	Procurement: expertise in procurement, as well as industry knowledge of nodal technology and smart poles	May need to develop technica expertise
	Secure partnerships with cellular and telecom companies that can expand service offerings (e.g., Ericsson's partnership with Los Angeles)	Q2 2022 – Q3 2022	 Business Development: ability to articulate value proposition to non-utility partners Business Development: expertise in marketing/sales 	Need to build business development function
James Is	 Upgrade poles in order of priority (or outsource installation to contractor) 	Q4 2022 - 2030	 Energy: experience installing poles Procurement: contractor management 	 May require field resource training, or outsourced deployment
Imple- mentation	Maintain and service poles, and ensure that all poles are included in asset management system	Q4 2022 - 2030	 Energy: technical knowledge of pole infrastructure Procurement: contractor management 	May require field resource training, or outsourced maintenance
	Ensure safe collection and storage of data by City and third parties	Q4 2022 - 2030	 Regulatory/Legal: familiarity with data privacy regulations, and ability to offer guidance to City 	Regulatory team may require additional expertise or resources; may require trainin on data handling requirements

Detail to follow

About this document

An overview of the approach and guidelines to JEA's strategy development

Strategic aspirations for JEA

2030 Vision for JEA across strategic pillars (customer, environmental, community, financial), with metrics outlined for each pillar; summary of how strategic initiatives will achieve financial and non-financial metrics

Operational improvements

Redesign of JEA's operating practices to achieve top-quartile performance as measured against JEA's peer set

Strategic capital investments

Investments in traditional utility infrastructure to deliver new outcomes and benefits to our customers (e.g. customer resiliency, grid flexibility and customer choice, clean and sustainable, etc.)

Core growth opportunities

Investments in new growth businesses core to the utility model: transport electrification, energy efficiency, distributed generation

Additional growth opportunities

Additional growth initiatives that position JEA as a growth platform that are currently not included in the financial projections

Next steps

Next steps to build capabilities and execute strategy

Appendix 1: Initiative charters and supporting analyses

Further detail on the strategic and financial objectives for each new initiative

Appendix 2: Next steps on implementation

Critical next steps to drive implementation of the strategic plan

Appendix 3: Organizational health initiatives

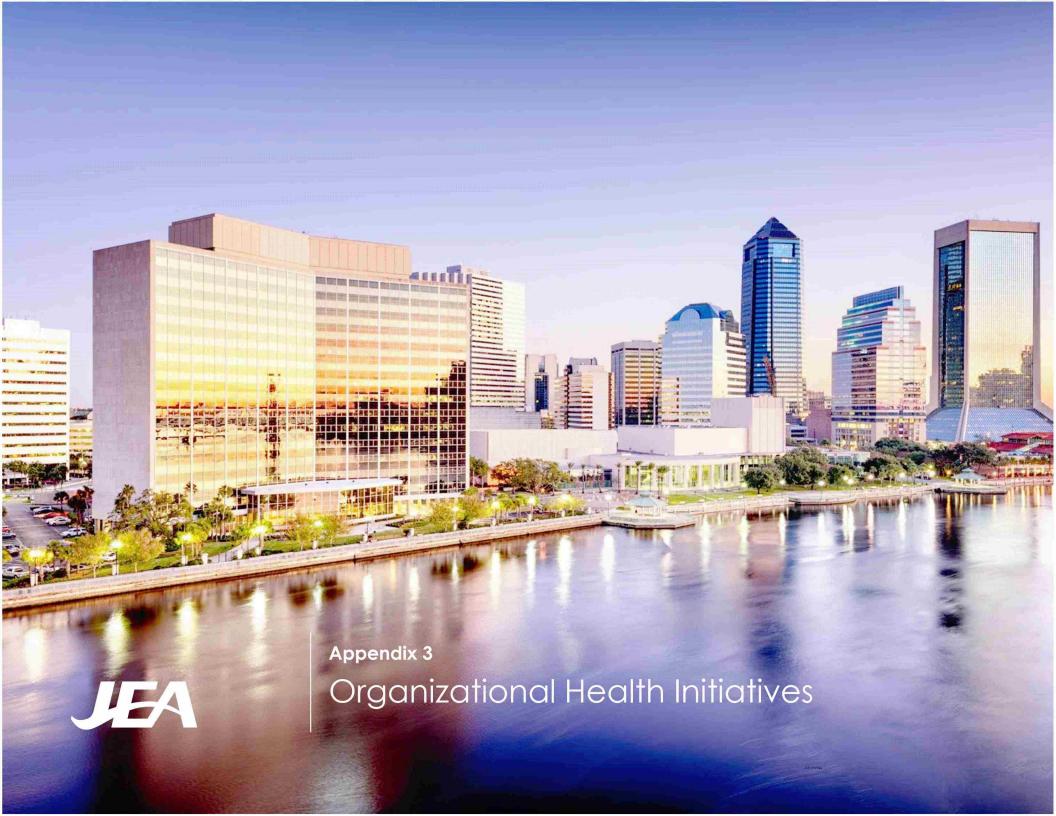
Actions JEA will undertake to improve its organizational health











Research has identified 4 signature recipes of organizational health

xx%

Percentage of organizations in our database that fit into each recipe



JEA target archetype



Leadership Factory

~20%

Performance driven by pipeline of strong leaders developed through coaching, formal training and the right growth opportunities









Focus on customer and competitive insights, coupled with keen financial acumen and operational management to drive innovation and shape the market



Quicken





Execution Edge

~40%

Gain competitive edge by involving all employees in sharing knowledge and innovating, supported by codified processes and clear roles









Talent and Knowledge Core ~10%

Key value creators are knowledge and expertise, achieved by identifying, attracting and providing opportunities to top talent





McKinsey&Company

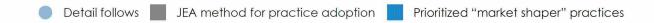
Like Olympic athletes, the recipes emphasize different strengths, but all recipes work to get top-quartile organizational health

SOURCE: Organizational Health Index Global Database

JEA's SLT has prioritized implementing practices that support the "Market Shaper" recipe

Top 10 practices by recipe			Practices prioritized by SLT	
Leadership Factory	Market Shaper	Execution Edge	Talent and Knowledge Core	
Risk management	Capturing external ideas	Performance transparency	Career opportunities	
2 Personal ownership	External partnerships	Employee involvement	Talent acquisition	
3 Challenging leadership	Role clarity	Creative & entrepreneurial	Rewards & recognition	
4 Career opportunities	Customer focus	Consequence management	Personal ownership	
5 Performance contracts	Top-down innovation	Capturing external ideas	Knowledge sharing	
6 Open and trusting	Competitive insights	Rewards & recognition	Talent development	
7 Supportive leadership	Gov't/community relations	Financial incentives	Meaningful values	
8 Financial management	Operationally disciplined	Knowledge sharing	Inspirational leaders	
9 Shared vision	Bottom-up innovation	Bottom-up innovation	Challenging leadership	
10 Financial incentives	Operational management	Top-down innovation	People performance review	

Market Shaper practices will be linked with current and future actions to ensure adoption





Actions JEA is undertaking through current effort



Develop our 2030 strategic plan with supporting initiatives

Strategic Clarity



Identify partners to provide strategic flexibility

External Partnerships



Additional steps to be taken to achieve "Market Shaper" profile



Expand JEA's innovation capabilities



Accelerate our emphasis on customer experience



Integrate new ways of working into our operational transformation

Top-down Innovation

Increase the velocity of innovation through formal structure to foster new ideas for products and services

Competitive Insights

Expand our ability to generate and share insights across the business that integrate into, and improve, our decisionmaking ability

Customer Focus

Provide industryleadina customer experiences and leverage customer satisfaction to build new businesses throughout Northeast Florida

Role Clarity

Define all roles in terms of business needs with clear objectives, tasks, inputs, outputs and responsibilities

Personal ownership

in solving

focus on

through

accountability

Empower team Encourage members to employees to take ownership explore creative **opportunities** problems and and equip them train leaders to to structure an improvement managing idea and communicate its objectives, business impact developina trust and driving

Bottom-up

Innovation

Knowledge Sharing

Facilitate knowledge sharing throughout the business while also looking beyond JEA for solutions and inspiration



Expand JEA's innovation capabilities

Details

JEA increased the velocity of innovation through new capabilities to understand the energy and water marketplace, generate competitive insights, and foster new ideas for products and services

• Our central innovation team has a dedicated competitive insights group that continuously performs proactive strategic analyses that result in specific insights and recommendations

Vision 2030

- Our business leaders use insights to make critical decisions regarding service enhancements, operational improvements, and competitive moves
- Access to high-quality business information is also a critical input to our annual budget process
 where there is a dedicated process to identify innovation projects that have additional support from
 across the business

Strategic priorities (Next three years)

Dedicate an innovation budget

 Assign a yearly budget dedicated to innovation and evaluate its use for idea creation, execution, and return on investment

Develop an innovation incubator

 Create a formal system for presenting and evaluating new ideas that receiving additional design and implementation support

Launch a competitive insights function

 Establish dedicated capabilities to generate competitive insights, disseminate them across the business, and measure their impact¹

Strengthen the innovation muscle

 Integrate innovation best practices into training programs and coaching practices at every level of the organization.

Quick wins (Next six months)2

Make the case for innovation

 Host a Utility of the Future workshop for managers from across the business

Celebrate progress

 Identify innovative projects and analysis across the business and recognize it during staff meetings, company emails, and public-facing material

Designate leaders

 Designate a senior leader responsible for coordinating the development and dissemination of competitive insights to the Senior Leadership Team

Integrate into daily cadence

 Dedicate time during Senior Leadership Team meetings to present and discuss new ideas

To achieve this:

- JEA's chief innovation officer will lead development of central capabilities (e.g., competitive insights group) and formal processes (e.g., innovation pipeline)
- Supporting innovation culture will be a shared responsibility of the Senior Leadership Team

Additional implementation planning necessary to size the resourcing needs and determine implementation costs and recurring O&M costs

² Some may be in process



B Accelerate our emphasis on customer experience

Details

- JEA is recognized as an industry leader in customer experience and has successfully leveraged its strong customer satisfaction to build new businesses throughout Northeast Florida
- Customer experience team continues to be the nexus of our customer-centric approach, leading research on the needs and desires of different customer segments, measuring customer satisfaction, and linking our performance to overall value

Vision 2030

- We set clear targets for customer satisfaction that are actionable, meaningful, and tailored to every level of the business from our CEO to frontline employees
- All customer facing employees are encouraged and empowered to respond directly to customer needs with clear decision rights that enable them to confidently find solutions whether in the field or in a customer care center

Strategic priorities (Next three years)

Know our customers Establish programs to ensure employees can gain direct exposure to customers (e.g., rotation program, ridealongs, CEO site visits)

Redesign customer journeys

 Identify the most important customer journeys and comprehensively redesign them to remove pain points and create a delightful experience2

Empower employees to take action

Ensure employees have autonomy and decision rights to solve customer needs expediently or quickly escalate the issue to a colleague for resolution

Link customer experience to employee performance

Integrate customer experience into the employee performance evaluation process to reward customer champions and provide coaching and support where needed

Quick wins (Next six months)1

Establish a **CSAT** metric

Develop a

metrics

cascade

Design and launch a Customer

as the foundation for measuring

Foster conviction in great customer experiences

Develop performance dialogues

 Identify the key drivers of customer satisfaction at the BU and team level. develop metrics for measuring improvement, set targets, and begin regularly collecting and reporting progress

Satisfaction (CSAT) metric that will serve

progress in JEA's customer experience

 Share examples of great customer experience in employee town halls, internal communications, and public facings documents

 Identify the questions that managers, directors, and executives can ask to identify constraints and drive improvement against each metric

To achieve this:

- JEA's chief customer experience officer will drive the design and implementation of customer satisfaction metrics and customer journey design
- **Operational business** leaders will set targets and performance dialogues for their **businesses**
- Supporting a customer-centric culture will be a shared responsibility of the Senior **Leadership Team**

1 Some of these are in process



© Integrate new ways of working into our operational transformation

Details

- JEA launched its operational transformation with a comprehensive training program that established a new way of working centered on role clarity, personal ownership, bottom-up innovation, and knowledge sharing
- Every team began their transformation by clearly defining individual roles, harmonizing those roles with colleagues across the business, and establishing consistent lines of accountability

Vision 2030

- · Leaders received training on how to manage through objectives while providing team members with clear decision authority to take ownership in solving problems
- Teams set dedicated time for problem solving that is now used to regularly generate, design, and launch improvement ideas
- Those ideas area easily shared across the business through a robust focus on knowledge sharing that also draws on best practices beyond JEA

Strategic priorities (Next three years)

Redesign roles & responsibilities

 Define all roles in terms of business needs with clear objectives, tasks, inputs, outputs and responsibilities

Launch structured problem solving

Establish dedicated time and processes for teams to identify challenges, generate improvement ideas, and take appropriate action

Rotate highperformers

· Create a rotation program for highperforming employees to complement in-depth knowledge of their own business unit with a broader understanding of the organization

Establish a knowledge management system

Launch a digital solution to facilitate creation, codification, and prioritization as well as organization and maintenance of knowledge with clear domain ownership1

Quick wins (Next six months)2

Launch an operational transformation • Establish a set of operational improvement initiatives that can be launched across the business to implement new ways of working

Run ideation sessions

 Run ideation sessions to identify specific operational improvements at the team/site level and integrate them into the transformation program

Celebrate ownership Celebrate employees who take personal ownership as well as the managers who successfully coach "from the sidelines" to enable their success

Define the big questions

· Define and share the big questions and challenges each business unit is struggling with and enlist employees in generating solutions

To achieve this:

- JEA's chief operating officer will lead overall development of the operational transformation program
- The Chief Human **Resources Officer will** drive enterprise-wide efforts to promote role clarity and knowledge sharing
- Supporting ownership and bottom-up innovation will be a shared responsibility of the Senior **Leadership Team**

¹ Costs associated with an enterprise-wide knowledge management platform are not included in the implementation costs associated with the operational performance initiatives