IRP Process and Report

Began IRP in September 2021

Stakeholder Meetings
Meetings held January 2022 - February 2023
May 25, 2023 final stakeholder meeting

Board Briefings
Board of Directors Meetings - January 11, 2022 and February 22, 2022
External Affairs Committee Meetings - July 25, 2022 and December 16, 2022
Finance & Operations Committee Meetings - September 9, 2022, December 16, 2022, March 10, 2023

IRP Modeling
Sensitivity Matrix included supplemental scenario with modeling results covering reliability, sustainability, and affordability
Results indicate the need for 1275 MW of Solar & Battery, and 571 MW of higher efficiency gas resource

Next IRP 3 - 4 years

Potential Goals
JEA Potential Goals by 2030

- 35% CLEAN ENERGY
- RETIRE LESS EFFICIENT GENERATION
- 80% CO₂ REDUCTION (FROM 2005)
- 100% CLEAN ENERGY TO SERVE JEA FACILITIES
- OFFSET ELECTRIFICATION DEMAND WITH ENERGY EFFICIENCY PROGRAMS
Path to Clean Energy and Carbon Reduction Goals

Key Terms
- FPL - Florida Power & Light
- PPA - Power Purchase Agreement
- FMPA - Florida Municipal Power Agency
- NGS - Northside Generating Station

-53% CO₂ since 2005
-63% CO₂ by 2026
-80% CO₂ by 2030
1,314 MW Solar represents 381 MW Net capacity

Higher efficiency generation ensures reliability and sustainability

Significantly less dependency on solid fuels and market purchases

Sustaining energy efficiency program
The IRP identified least-cost resource plans to meet forecasted energy requirements between 2022 through 2051.

Estimated cost (Net Present Value) considering IRP inputs:

- $16.5B to produce energy with existing generation resources
- $16.1B to produce energy with new additional resources

- 1275 MW Solar/Battery
- 571 MW High Efficiency Gas
- NGS Unit 3 Decommission

The new resources plan balances reliability, affordability, and sustainability to serve JEA customers.
JEA Capital Projects Cost 2024 - 2030

Capital investment to integrate JEA solar sites, a new Combined Cycle plant, NGS Unit 3 decommission.

Electric system integration studies are necessary to determine transmission cost for unidentified solar/battery sites.
Offset Electrification Demand

IRP modeling accounted for an increased energy demand of 434 GWh in 2030 from electric vehicles. Expanding energy efficiency and customer solutions to offset electrification demand.

2030

434 GWh
Electrification
Personal Electric Vehicle

434 GWh
Demand-side Management
Energy Efficiency
Distributed Energy Resources
Customer-Owned Solar
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