

Economic Infrastructure Subcommittee

Tuesday, December 9, 2025
8:30 AM - 11:30 AM
Reed Hall (102 HOB)

Daniel Perez
Speaker

Chip LaMarca
Chair

Committee Meeting Notice

HOUSE OF REPRESENTATIVES

Economic Infrastructure Subcommittee

Start Date and Time: Tuesday, December 09, 2025 08:30 AM

End Date and Time: Tuesday, December 09, 2025 11:30 AM

Location: Reed Hall (102 HOB)

Duration: 3.00 hrs

Discussion on the Impact of Data Centers on Electric Utilities

Presentations on the Use of Artificial Intelligence by Infrastructure Providers

NOTICE FINALIZED on 12/02/2025 3:19PM by Marks.Amie

Florida Power & Light

Data Centers and AI

Tiffany Cohen, VP Rate and Regulatory Strategy

December 9, 2025

Florida is a powerhouse for responsible growth and opportunity

State of Florida

- Sales tax exemption for data centers over 100 MW
- No state income tax
- AI programs at top universities are fueling workforce pipelines
- Wall Street of the South



Florida Power & Light Company

- Approved large load tariff
- Owns and operates robust transmission system
- Speed-to-market with connection to 500kV hardened lines
- Record storm performance with automated grid

The FPSC recently approved two new tariffs to serve large load customers during this rate period while protecting the general body of customers

FPL large load tariffs applicable to new customers with >50 MW and 85% load factor

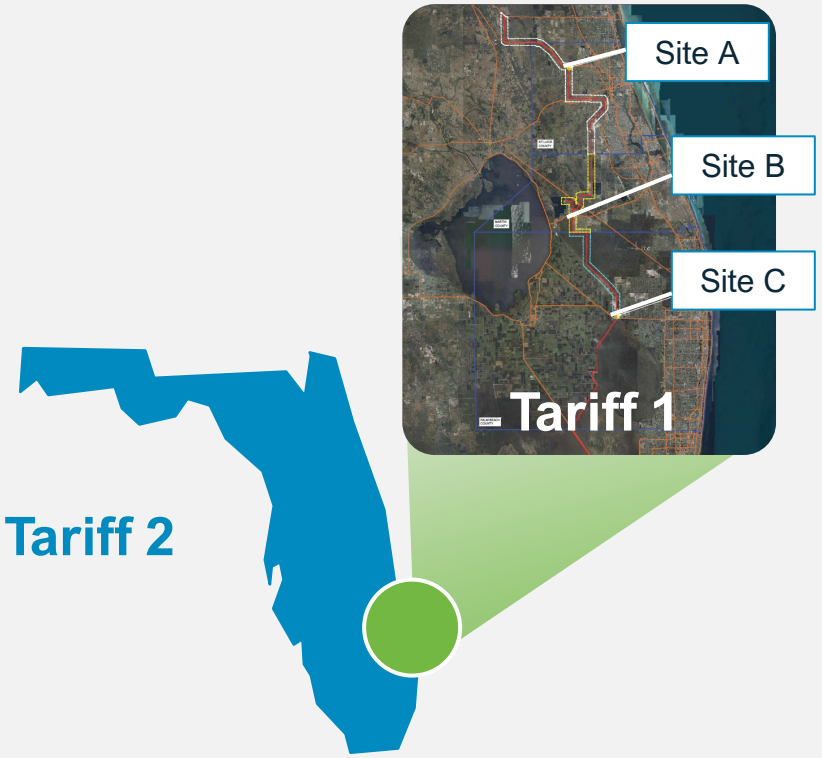
Tariff 1

Up to 3 GW of new load at three specific sites

- Close proximity to FPL transmission facilities

Tariff 2

Unlimited load outside of designated sites will pay cost to serve under formulaic rate structure



The FPSC-approve large load tariffs represent the most forward-looking and customer-protective regulations in the U.S.

These large load tariffs lead the nation in customer protections

Load Requirement	Incremental Generation Charge (IGC)	Minimum Bill
In excess of 50 MW and 85% load factor	$11.67/kW for customers located in certain zones[1]; will be calculated for all other locations in the service area[2]	100% of the IGC plus 70% of demand charges (e.g. slice of system charge) based on customer's contracted load

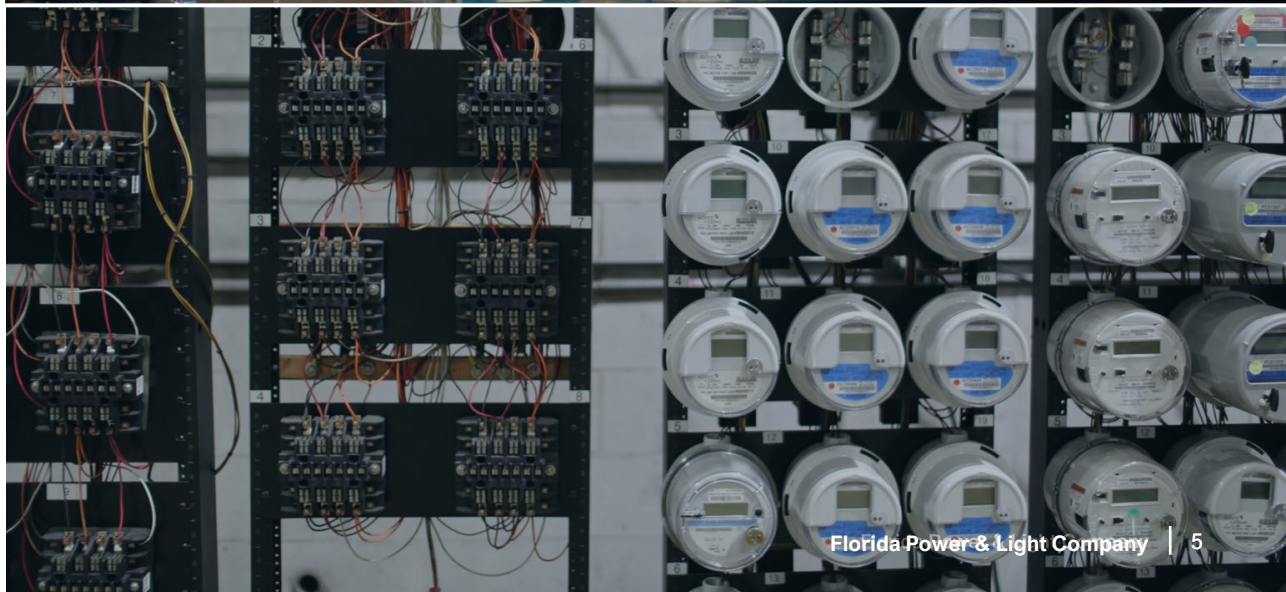
Minimum Term	Exit Fees	Collateral[3]
20-year contract with a 2-year termination notice	100% accelerated payment of remaining 20-year IGC	Parent guarantee/Letter of Credit/ Surety Bond for 5 years of IGC if BBB or better. 10 years of IGC if not BBB or better.

1. LLCS-1 has stated IGC rate and is limited to certain zones - Sunbreak (St. Lucie County), Tesoro (Martin County), and Sugar (Palm Beach County). Must be near FPL's 500 kV transmission facilities
2. All incremental generation charges will be determined via formula specified in LLCS-2 tariff
3. Subject to annual liquidity checks

Artificial intelligence is already helping us deliver some of the nation's most reliable electric service

- 44,000 truck rolls avoided in 2024 by using artificial intelligence
- More than 2.7 MM outages avoided in 2024 by using smart grid technology
- FPL can predict and prevent many power outages and restore service faster when outages occur
- Safer, faster and more cost-effective inspections by using AI-enabled drone inspections





Duke Energy

AI @ Duke Energy

Rick Glover

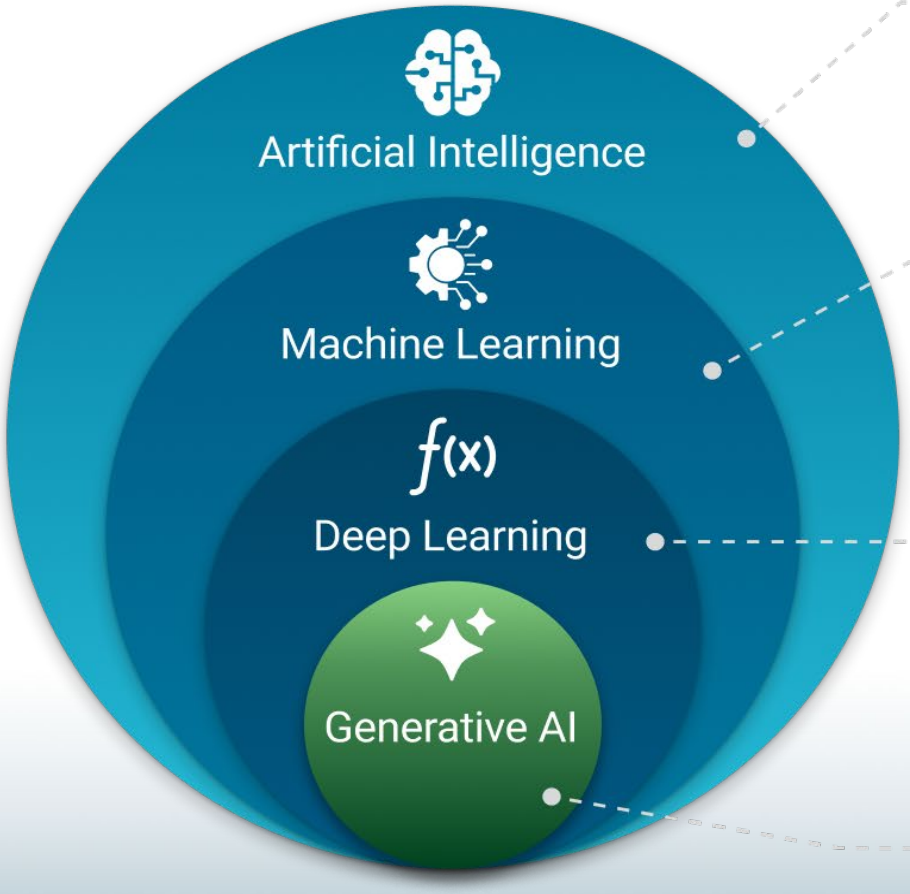
Director of Digital Grid Services

12/9/2025



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AI Foundations



Artificial Intelligence - 1950s

The science of making intelligent machines

Machine Learning (ML) - 1980s

Ability to learn without being explicitly programmed

Deep Learning - 2010s

Subset of ML which makes the computation of multi-layer neural network feasible

Generative AI

Learning algorithms which enable the creation of original content by using existing content such as text, audio and video files, images, and code

Our AI Journey

Duke's journey reflects a commitment to innovation, safety, and reliability

Partnership Between AI & our Business

2017

- Align technical teams and business partners early - Driving innovation focused on business needs and clear customer value.
- Moved from AI ideas to AI solutions.

Safeguarding our Technology & Data

- Duke Energy recognized the need for strong data governance and security frameworks before scaling AI ensuring compliance and protection of sensitive information.
- Ensured a unified AI and Data strategy.

Building our Governance Framework

- Formal governance structures—such as centralized platforms and clear policies—are essential for managing risk and enabling responsible innovation.
- Established enterprise AI and Governance platform.

Accelerating Value-add innovation

- Applying AI to targeted, high-impact use cases accelerates adoption and demonstrates tangible benefits.
- 50+ Internally developed AI Products.

AI Capabilities

Computer Vision

Derives meaningful information from digital images, videos and other visual inputs (e.g. **MOVES, Fleet Electrification Planning**)

Deterministic

Anomaly Detection

Identification of unexpected events, observations, or items that differ from the norm (e.g. **EV Detection, Transformer Health**)

Deterministic

Optimization

Determining the most effective use of a situation or resource subject to constraints (e.g., **Route Optimization**)

Deterministic

Forecasting

Making predictions based on past and present data (e.g. **Load Forecasting**)

Deterministic

Natural Language Processing

Derives meaningful information from text (e.g. **Interconnection Requests**)

Deterministic

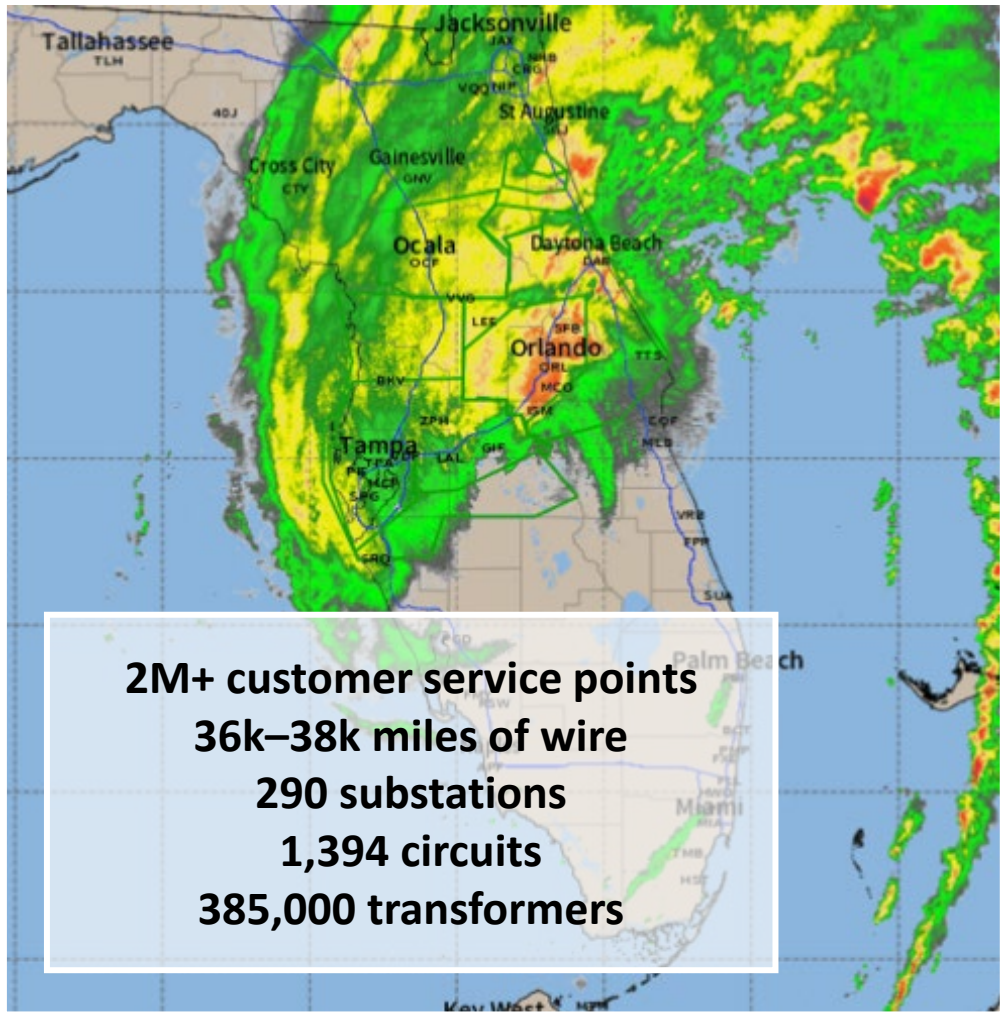
Generative AI

Creating new content such as images, text, video, that mimics human-created content (ex. **ChatGPT, Large Load Siting**)

Probabilistic

Storm Preparedness

AI CAPABILITIES LEVERAGED: Forecasting Optimization



2M+ customer service points
36k–38k miles of wire
290 substations
1,394 circuits
385,000 transformers

Hurricanes

Severe Thunderstorms

Ice Storms

Pre-Landfall Modeling

The prediction model forecasts and estimates the number and location of storm Outages, crew types needed, and duration of restoration efforts.

StormCast (Post Storm) Modeling

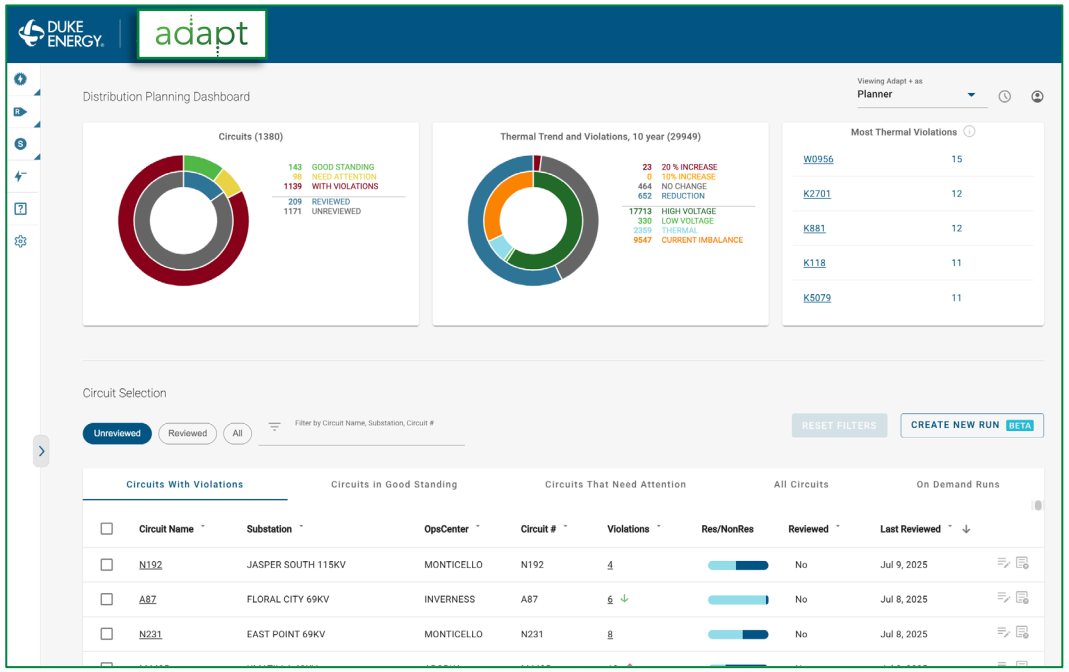
Generates a model that produces accurate restoration times and resource allocation forecasts by analyzing weather and outage data, crew availability, and damage assessments.

GOAL

Optimize restoration by getting the right crews to the right places

Advanced Distribution Planning

AI CAPABILITIES LEVERAGED: Forecasting | Anomaly Detection | Optimization



Data extraction and corrections

Base violation identification

Solutioning

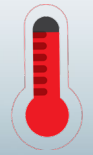
Reporting

- AI Engines generate forecasts, find issues and offer optimized solutions
- Replaces a manually heavy process of data gathering and processing
- Allows Distribution Planners to focus on the planning
- 600% increase in number of circuits reviewed annually
- 50% reduction in total circuit evaluation time

PREDICTIVE ISSUES IDENTIFIED


Low Voltage


High Voltage

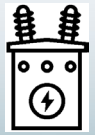

Thermal Violation


Low Circuit Power Factor

SOLUTIONS RECOMMENDED


Tap Transfer


Load Transfer


Voltage Regulator

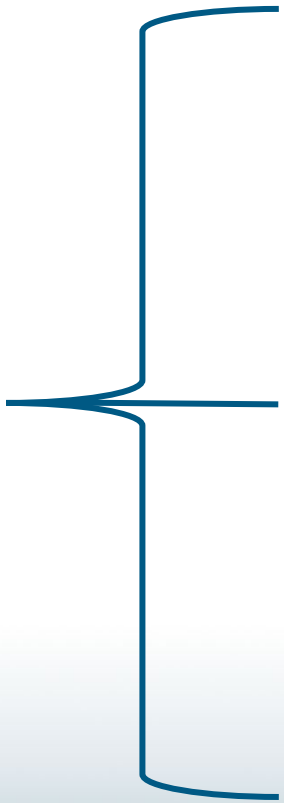

Reconductoring


Capacitor Addition


3PH Rebuild

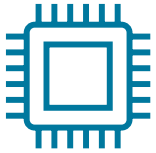
Working Together

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Technology Partners



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THANK YOU

