

PPL Service Territory Data Center Load Growth

PJM Load Analysis Subcommittee

October 25, 2024

George Khoury

Company Profile



PPL Electric Utilities

PPL Electric Utilities

- Headquartered in Allentown, PA
- Serves 1.5 million customers in 29 Pennsylvania counties
- Operates 50,000 miles of power lines



Louisville Gas and Electric and Kentucky Utilities

- Headquartered in Louisville, KY
- Serves 1.3 million customers in almost 100 counties across Kentucky and Virginia
- More than 8,000 megawatts of generation capacity



Rhode Island
Energy™
a PPL company

Rhode Island Energy

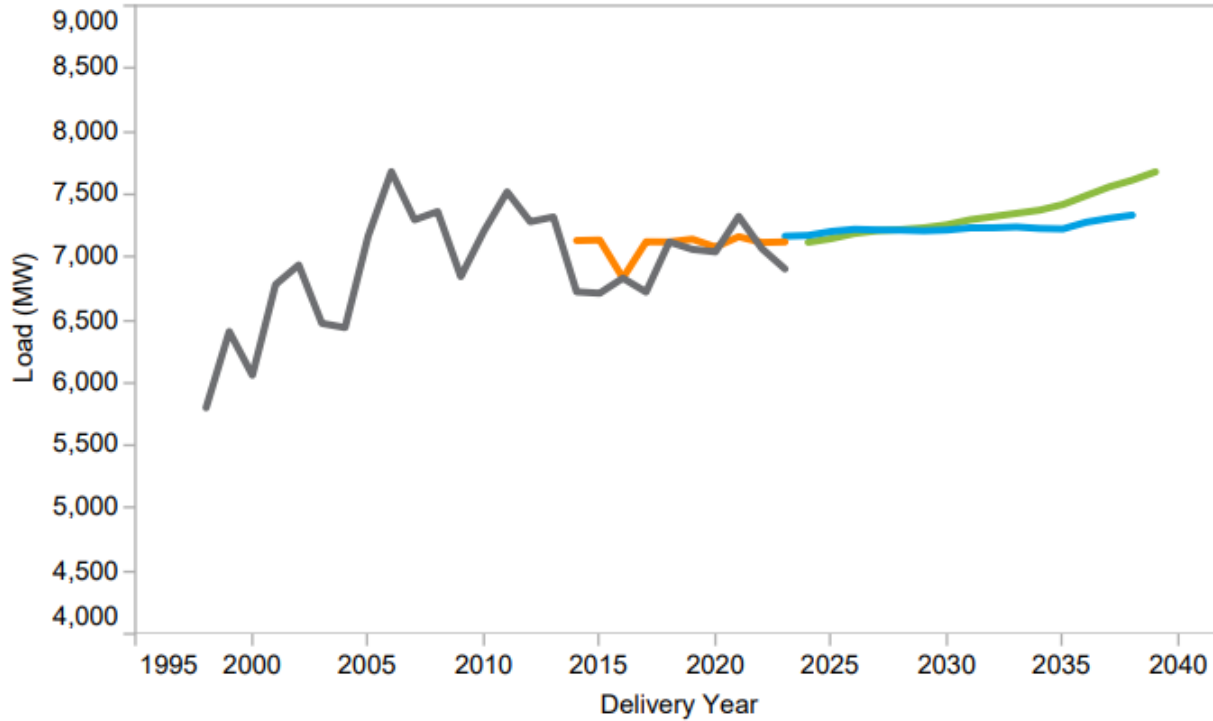
- Headquartered in Providence, RI
- Serves 770,000 customers across RI
- Over 9,000 miles of power and gas lines

Company Profile

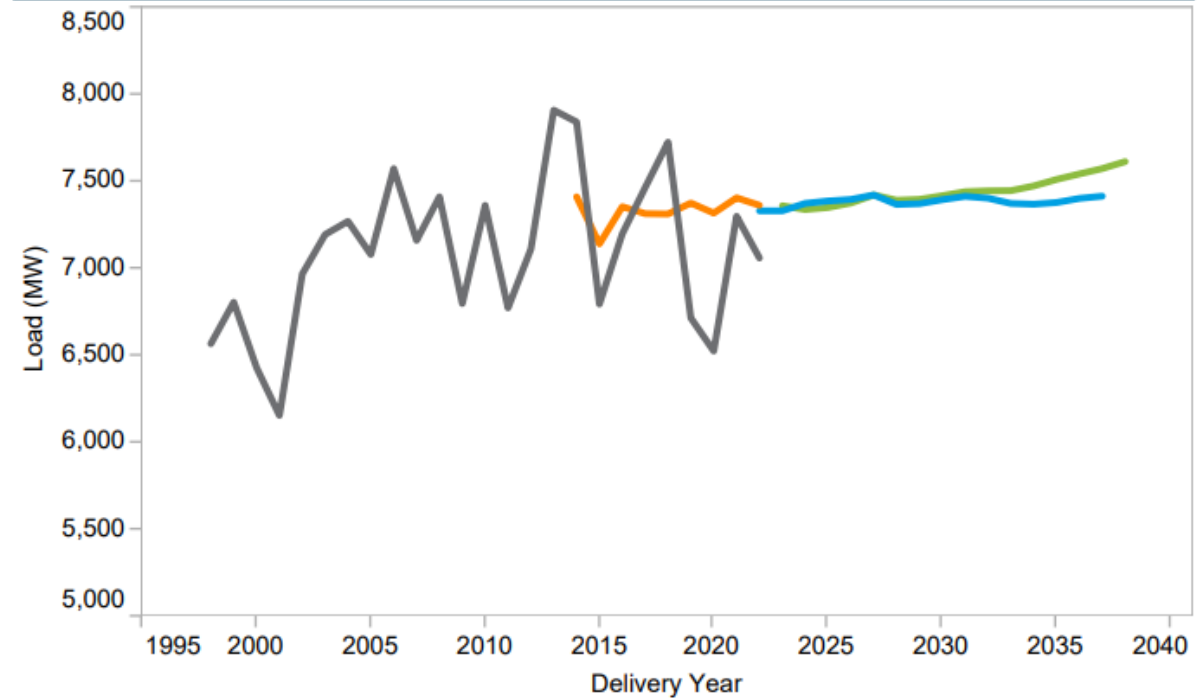
- More than 6,700 employees
- Serve more than 3.5 million customers in the U.S.
- Operate and maintain over 90,000 miles of electric and gas lines
- 36 billion kilowatt-hours of electricity delivered in 2021 (LG&E and KU and PPL EU)
- PPL's service area in Pennsylvania and Kentucky covers nearly 20,000 square miles
- Over the past decade, we have invested more than \$20 billion in new infrastructure and technology to create a smarter, more reliable and resilient energy grid:
 - Thanks to our investments in smart grid technology, >1M outages avoided since 2015
- Company goal to reach net-zero carbon emissions by 2050
- Consistently recognized as an industry leader in customer satisfaction

PPL Historical and Forecasted Loads

Summer Peak



Winter Peak



■ Peak

■ WN peak

■ Forecast 2023

■ Forecast 2024

PPL Interconnection Process

- Since Aug 2023, PPL has received over 35,000 MW of large load interconnection requests
- Approximately 20% of the requested load developed into a Signed Agreement.
- All Signed Agreements are presented at the TEAC as soon as the contractual agreement was completed.



INITIAL STUDY



SIGNED
AGREEMENT



DEVELOPMENT
PHASE



CONSTRUCTION



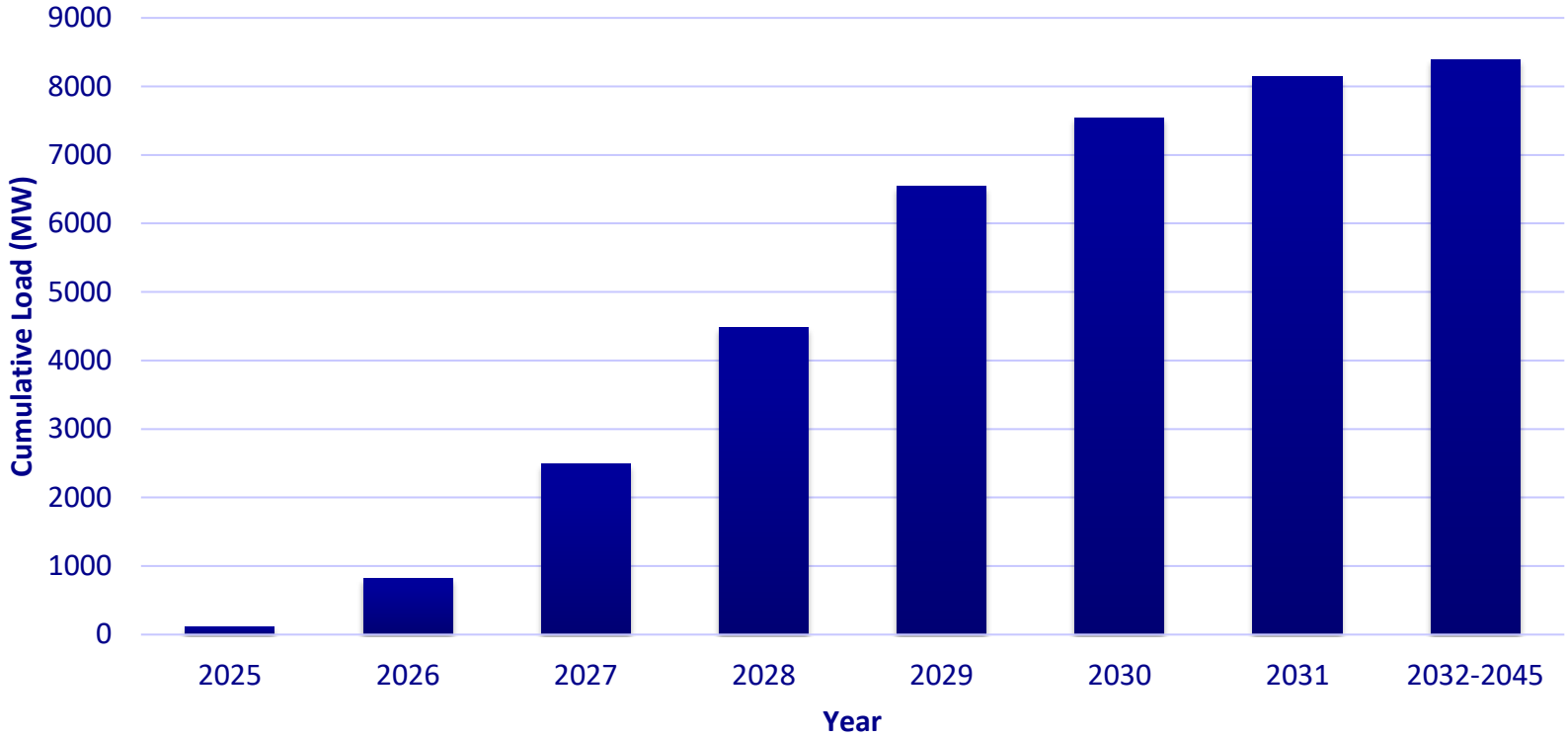
Methodology & Process

- To ensure an accurate representation of datacenter load within PPL territory, only those with a Signed Agreement are typically included in the Load Forecast.
- Majority of the requested loads with a Signed Agreement have been presented at the previous TEAC meetings.
- The solutions presented for the requested loads ensure the ability to meet the load ramp schedule and to reuse or uprate the facilities based on additional loads being added to the area.
- It is our goal to have accurate and realistic load projections that reflect the locations of the load and high probability of execution.
- PPL continues to engage with PJM to ensure that all our customers have sufficient capacity to meet their energy and reliability needs.

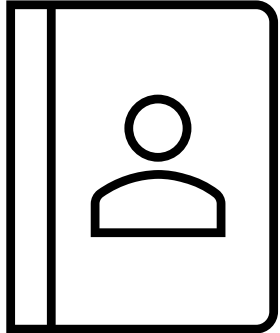
Load Ramp Schedule



Load Ramp



Contact Information



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