



PPL Service Territory 2027 Large Load Forecast Adjustment

PJM Load Analysis Subcommittee

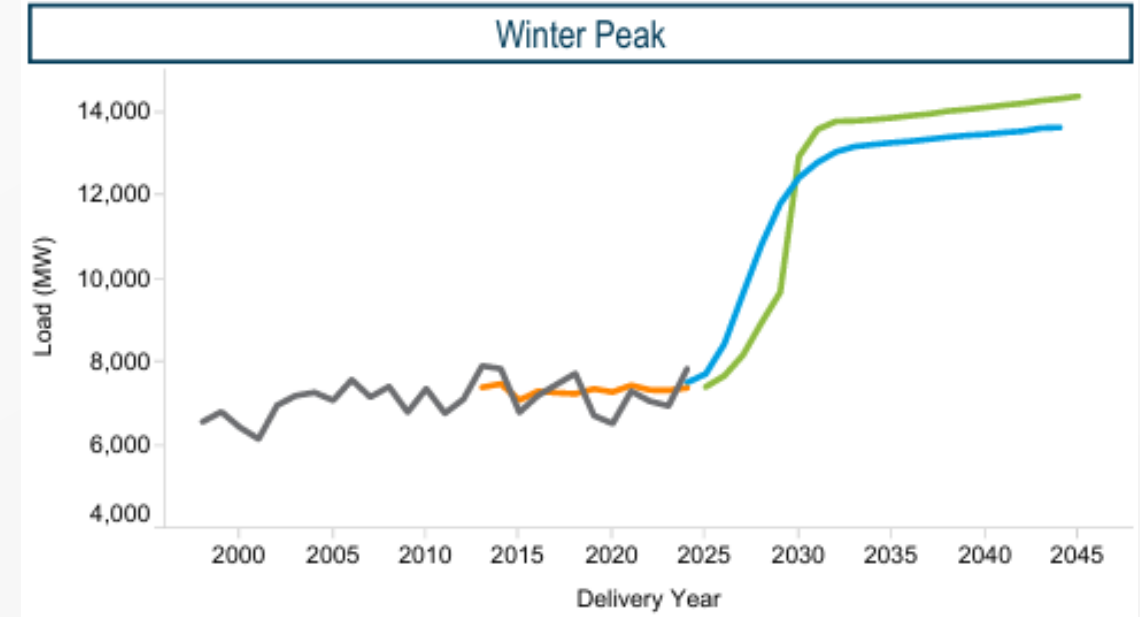
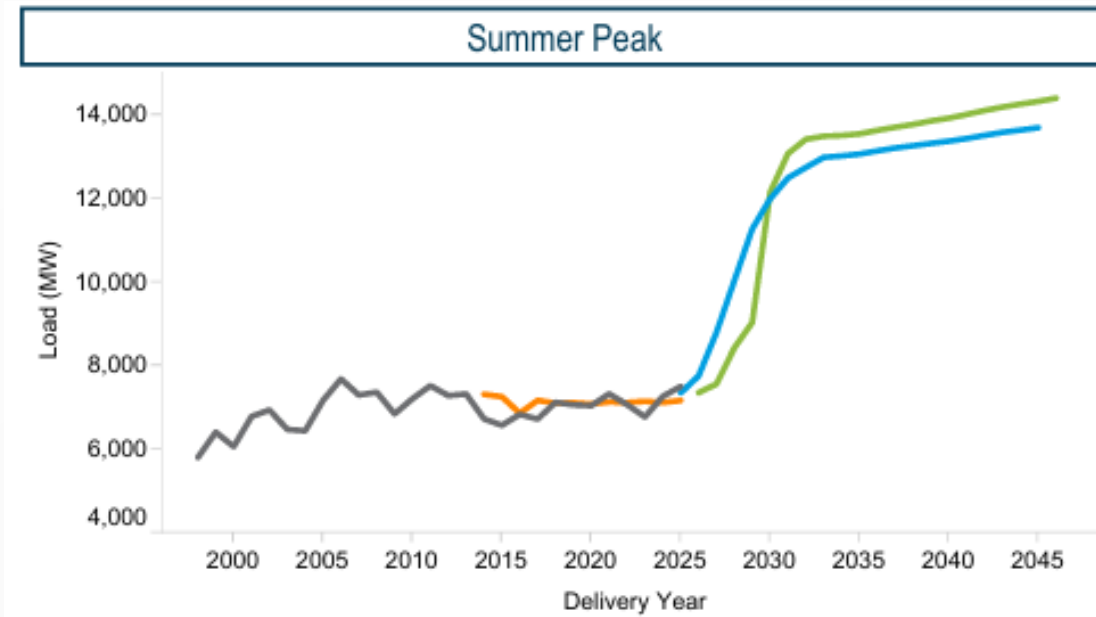
September 29, 2026

George Khoury



Background and Historical PPL Load

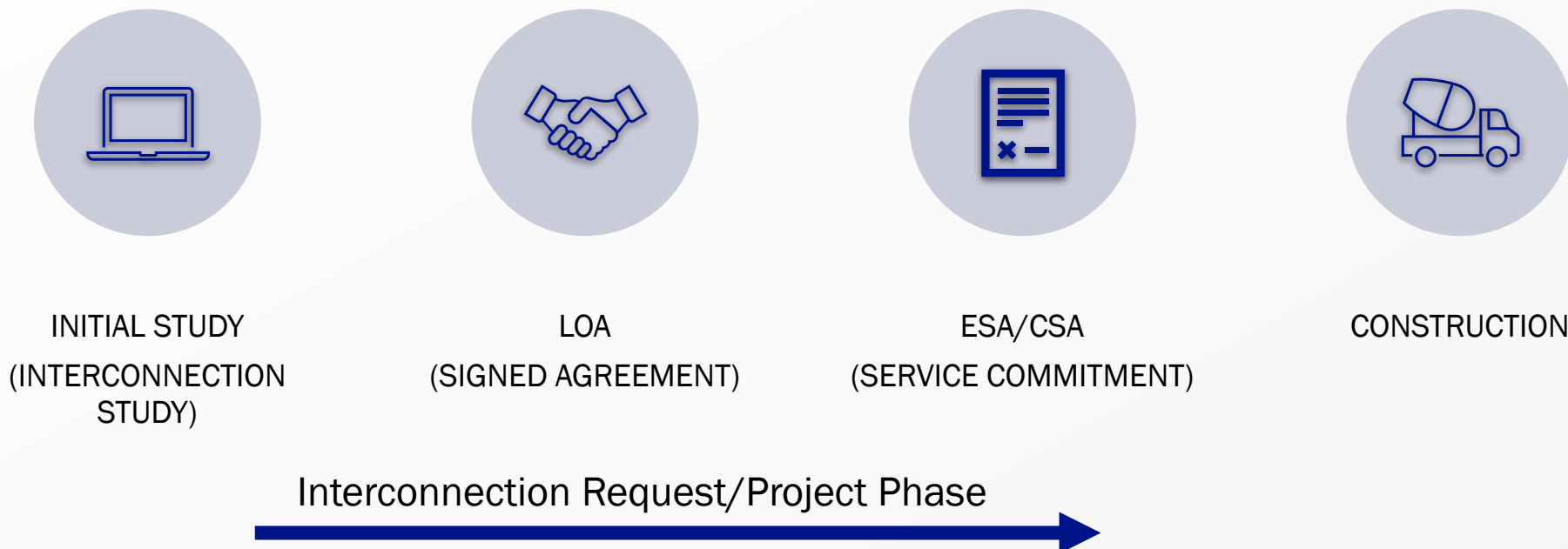
- PPL Zone – PA
- Customers included are Data centers – New and existing customer



■ Peak ■ WN peak ■ Forecast 2025 ■ Forecast 2026



Methodology & Process: Agreements



- Initial Study:
 - Initial inquiry and high-level assessment of the requested service.
 - Since Sept 2024, PPL has received over 240GW of large load interconnection requests.
 - Projects in this phase are excluded from the Load Forecast as they do not have an executed agreement.



Methodology & Process: Agreements Contd.

- **Letter of Authorization (LOA Agreement):**
 - A formal customer commitment before preliminary project development. Requires upfront customer cash deposit and letter of credit.
 - Projects are brought to PJM TEAC/SRRTEP at this stage.
 - Detailed engineering of site-specific plans, system upgrades etc.
- **Electrical Service Agreement (ESA)/Construction Service Agreements (CSA):**
 - A long-term customer load commitment and financial guarantees protect the utility and its ratepayers. Minimum load commitment and exit fees.



Methodology & Process: Forecast Assumptions

For the purposes of the Large Load Forecast:

- **Initial Study:**
 - Initial Study requests that have not advanced to an executed LOA or ESA/CSA are excluded from the forecast.
- **Signed LOA's:**
 - LOA projects are subject to additional probability discounting during the first three forecast years to reflect forecasting uncertainty and thus assumes a 0% probability of achieving commercial operation for the first 3 years.
 - A combined Demand Utilization Assumption and probability of achieving commercial operation of 50% thereafter.
 - Last year's submission consisted of Demand Utilization Assumption of 80% and a 100% probability of achieving commercial operation.
 - Project-specific in-service dates and ramp schedules are also reflected.



Methodology & Process: Forecast Assumptions Contd.

For the purposes of the Large Load Forecast:

- **Signed ESA/CSA:**
 - A 70% demand utilization assumption is applied, compared with 80% in the prior submission.
 - A 100% probability of load realization is assumed for forecasting purposes.
 - Project-specific in-service dates and ramp schedules are applied.
- **Ramp Rates:**
 - PPL works with data center developers to establish expected load ramp schedules.
 - The forecast considers the timing of required transmission upgrades, customer construction and development schedules, and typical data center load-ramp characteristics.

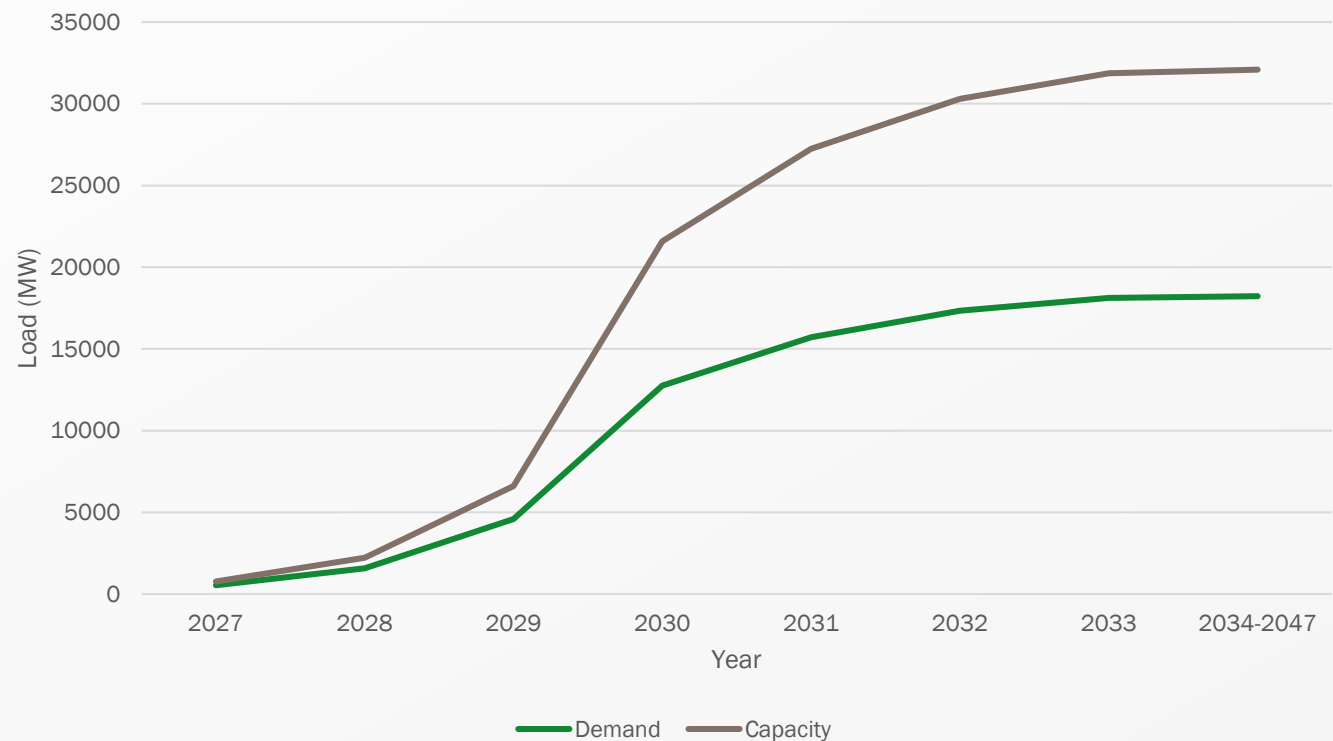


Methodology & Process: RERRA

- RERRA Feedback
 - Meeting was had on 07/17 with staff of PUC
 - PPL presented the proposed large-load forecast methodology, project classifications, utilization assumptions, probability adjustments, and forecast results.
 - Commission staff provided feedback on 08/31.



2027 Large Load Requested Adjustment



	2027	2028	2029	2030	2031	2032	2033	2034-2047
Capacity	771	2,256	6,599	21,580	27,247	30,293	31,869	32,089
Demand	539	1,579	4,591	12,764	15,722	17,329	18,117	18,227



Request Details – Contract breakdown

Breakdown of the agreements/contracts within the load forecast.

Summer	2027	2028	2029	2030	2031	2032	2033	2034-2047
ESA/CSA- Capacity	771	2,256	6,559	9,871	10,491	10,912	10,912	10,912
LOA - Capacity	0.0	0.0	0.0	11,709	16,756	19,381	20,957	21,177

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