

## PPL – Large Load

From August 2023 to August 2024, PPL has received several requests from developers for data center interconnections, marking a significant shift in its historical load profile. Prior to 2024, there were no large data centers within PPL's territory. To ensure an accurate representation of this emerging load, only data center projects with a Signed Agreement (SA) are included in PPL's 2025 Load Forecast. The overall process is described below.

As part of the established PPL process, PPL collaborates closely with developers and PJM to validate proposed data center projects. Developers begin by submitting their requests to PPL's Interconnection Affairs, detailing their project requirements. In response, PPL's Transmission Planning team conducts a high-level analysis to provide initial feasibility insights. The next phase in the process is the Signed Agreement (SA) phase. In this phase, PPL proceeds with detailed engineering analysis, offering developers precise estimates for cost, timeline, and preliminary engineering requirements.

Projects at the SA phase are considered likely to progress as scheduled. PPL has presented these projects to PJM and stakeholders through forums such as TEAC and SRRTEP. Additionally, PPL has shared its methodology and load forecasting at LAS meetings, ensuring transparency and alignment with stakeholders.

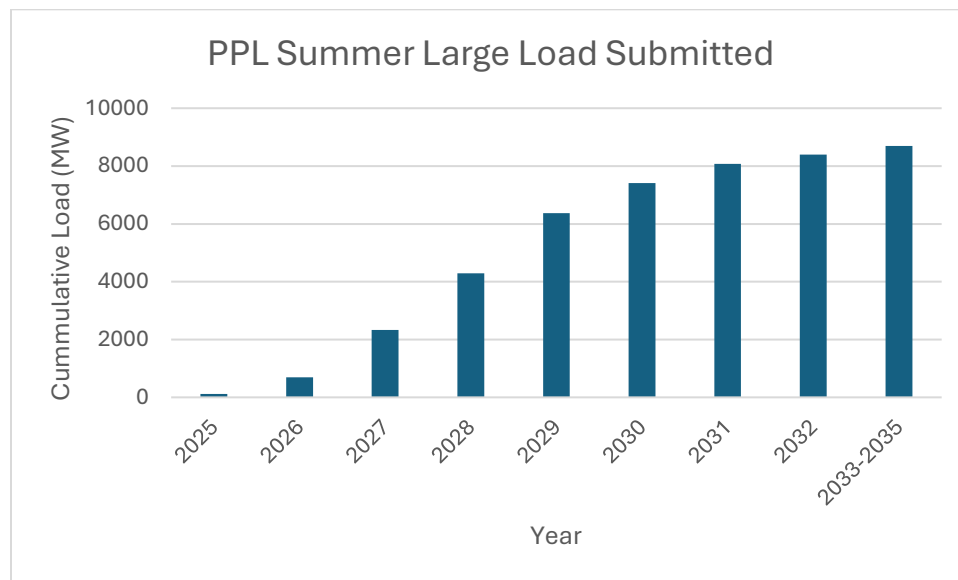
Before construction begins, developers must finalize a Construction Service Agreement (CSA), which outlines the project's costs, schedules, and additional pertinent details. Currently, all data center projects in PPL territory are undergoing detailed design engineering and some are near engineering completion.

In October 2024, PPL submitted forecasted large loads details to PJM. The table below summarizes the breakdown of the type of load and projected capacity expected. By 2030, PPL's summer load forecast projects an increase by approximately 7,409 MW. A complete ramp-up to 8,695 MW is expected by 2033. Notably, these facilities are expected to operate 24/7, fundamentally altering PPL's load profile. Based on information provided from the developers, PPL expects these facilities will have a 100% utilization factor and are all capacity requests.

The data below highlights the difference in load forecast due to the addition of forecasted load.

Year	Datacenter only	BTM Datacenter	Crypto Mining	Total Load
2025	0	120	0	120
2026	411	240	40	691
2027	1901	360	75	2336
2028	3480	660	150	4290
2029	5189	960	225	6374
2030	6199	960	250	7409
2031	6864	960	250	8074
2032	7185	960	250	8395
2033-2035	7485	960	250	8695

Breakdown of types of loads submitted to PJM



Furthermore, PPL continues to receive new inquiries for data center projects of varying sizes. As these inquiries progress to the SA phase, they will be incorporated into the forecast and presented to PJM and stakeholders.

PPL remains committed to facilitating the interconnection of data centers in its territory, ensuring rigorous planning, stakeholder engagement, and adherence to established processes to support this transformative evolution in its load profile.