

## ELCC Calculator User Guide

### Introduction

Effective Load Carrying Capability (ELCC) analysis uses simulation to examine expected hourly load levels with expected hourly output of expected future resources to quantify the resource adequacy value of an ELCC Class (group of similar resources). The tool provides greater transparency into the new ELCC process and allows PJM members to perform their own ELCC Class calculations by having the ability to change the resource mix for a future delivery year.

### Accessing the ELCC Calculator

*To access the ELCC Calculator from [PJM Tools on PJM.com](#), you must have a valid [Account Manager](#) user account. Prior to accessing the ELCC Calculator, you must be a “qualified” ELCC Calculator user.*

#### For PJM members:

You can request access to the ELCC Calculator through your company’s CAM.

#### For non-PJM members:

If you are not a member and have an [Account Manager Account](#) of type “Other,” you have access to the ELCC Calculator by default.

Once you have been granted access to the tool, you can use the ELCC Calculator: <https://elcccalculator.pjm.com/>.

### Additional Information

#### Range of delivery years available:

The delivery year options range from 2026–2038.

#### How to access fleet assumptions used to produce the preliminary ELCC Class Ratings in the Resource Adequacy Planning documentation:

Submit a request to [ELCC@pjm.com](mailto:ELCC@pjm.com).

#### Reason for lack of results for some generation types:

Solar Storage Hybrid, Gas Combined Cycle Dual Fuel, and Hydro With Non-Pumped Storage are subject to Unit-Specific ELCC; therefore, results will appear null.

Visit the [Effective Load Carrying Capability \(ELCC\) page](#) on PJM.com for additional information.

## How To Use the Calculator

- 1 | Please select a delivery year from the drop-down menu.
- 2 | Enter the full fleet of installed capacity.
- 3 | Click the Calculate button.

A study may take a few hours to complete.

## How To View Results

After the calculations are complete, you will receive an email to the address registered with your Account Manager account.

You can log in to the [ELCC Calculator](#) and view the results of all your calculations.

### Calculator

In support of transparency around the new Effective Load Carrying Capability (ELCC) calculation, in association with the PJM Capacity Market, this project will create an external facing version of this calculation. The intention is to allow members to perform their own calculations including having the ability to change some of the inputs and provide clarity on the inputs that cannot be changed.

Submissions are limited to one per user per day.

For more information, please reference the ELCC page on PJM.com. For additional questions, contact [custsrv@pjm.com](mailto:custsrv@pjm.com).

Delivery year \* 1

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ELCC Class	Effective Nameplate	Installed Capacity
On-shore wind	Ex: 0-50,000 MW	2,405 MW
Off-shore wind	Ex: 0-30,000 MW	600 MW
Solar, fixed panel	Ex: 0-10,000 MW	1,469 MW
Solar, tracking panel	Ex: 0-80,000 MW	7,504 MW
Landfill gas, intermittent	Ex: 0-3,000 MW	125 MW
Hydro, intermittent	Ex: 0-5,000 MW	528 MW
Total storage <span style="font-size: x-small;"> ⓘ</span>	Ex: 0-56,000 MW	5,704 MW
4-hour storage	<input type="text"/> MW	5,704 MW
6-hour storage	<input type="text"/> MW	5,704 MW
8-hour storage	<input type="text"/> MW	5,704 MW
10-hour storage	<input type="text"/> MW	5,704 MW
Solar-storage hybrid	Ex: 0-20,000 MW	600 MW

Gas combined cycle (single fuel)  MW

Gas combined cycle (dual fuel)  MW

Gas CT  MW

Gas CT, dual fuel  MW

Diesel  MW

Steam  MW

Hydro with non-pumped storage  MW

Other  MW

Results may take a significant amount of time to be returned. You will be notified at the following email address:

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Calculate
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### ELCC Calculation Submissions

Submit New Calculation

View	ELCC Run ID <span style="font-size: x-small;"> ⓘ</span>	Timestamp <span style="font-size: x-small;"> ⓘ</span>	Delivery Year <span style="font-size: x-small;"> ⓘ</span>	Status <span style="font-size: x-small;"> ⓘ</span>
	23	08/27/2024 10:35:00	2029	Pending
	20	08/24/2024 12:05:00	2028	Pending
	14	08/14/2024 09:52:00	2025	Complete

**For questions about the ELCC Calculator,**  
contact PJM's [Member Relations](#).