



# MISO Operating Reserves Market

Monetize your energy flexibility with Enel

Enel helps organizations throughout the Midcontinent Independent System Operator (MISO) region earn money, save on energy costs, and mitigate carbon emissions with demand response. Our deep market expertise provides the guidance and tools organizations need to maximize their demand response earnings. With Enel, participating in demand response has never been easier. Learn how your organization can generate revenue as a standby resource for the MISO electric grid.

## Program overview

<b>Program period</b>	24x7x365; you choose when your site participates
<b>Dispatch duration</b>	60 minutes maximum; 40 minutes average
<b>Dispatch frequency</b>	10 – 20 per year
<b>Advanced notification</b>	10 minutes
<b>Minimum size</b>	1 MW of curtailable load
<b>Performance requirement</b>	Full performance within 10 minutes of notification and sustained performance until the end of the dispatch



## What are operating reserves?

MISO relies on several operating reserves products that support the MISO electric grid during unexpected system disruptions that only last for a short period of time, such as unplanned generator outages or spikes in energy demand.

Program participants are on standby to deliver capacity by reducing load from the grid within minutes of being notified. In return, they earn payments for being available to stabilize the grid during these critical periods.

## Who can participate?

Large electricity users that can reduce electricity consumption – either by curtailing load, or switching to properly permitted on-site generation – are eligible to provide operating reserves.

Ideal participants have the following characteristics:

- 24x7 or 24x5 operations
- Stable, predictable load profile
- On-site generation with centralized control
- Capable of reducing at least 1 MW load within 10 minutes, most commonly using Enel control solutions

## How much can we earn?

Earnings depend on several factors including hours enrolled in the program, MW reduced, and energy prices. The more you are available, the more you can earn. Enel will work with you to evaluate earnings potential and optimize your participation based on your operational capabilities.



Grand Rapids, Michigan

## How else does my company benefit?

- **Reduced energy bills:** Since operating reserves prices are tied to the MISO pool price, you can participate in the program to hedge against high retail energy charges.
- **Protect your operations:** The advanced notice you receive provides a window to prepare and prevent costly damage to your processes and equipment preceding a potential blackout.
- **Full control and customization:** You decide when and how many MW to bid into the market. You can opt-in and -out of the market with just one day's notice. Participate only when it makes sense for your business.

## How do we participate?

Enel works with you to determine a custom participation plan that best suits your site's operating schedule and financial objectives. Our goal is to maximize your earnings while making participation as simple and hands-off as possible.

- Enel submits daily market offers on your behalf for the following day (weekend and Monday offers are submitted on Friday).
- When your offers clear, you earn payments for being available to reduce load, if called upon.
- If your capacity is needed, Enel will notify you to reduce your load within 10 minutes.

## What triggers a dispatch?

Operating reserves dispatches are triggered by short-term imbalances between supply of and demand on the MISO grid. These imbalances are typically caused by a sudden loss of a generating unit, an unexpected increase in demand, or an issue with an interconnection that links MISO to a neighboring jurisdiction.

## What happens if we cannot meet our commitment?

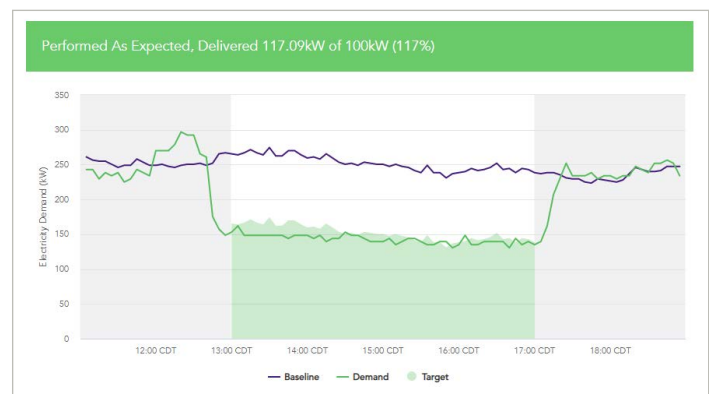
Enel shields its customers from owing penalties associated with non-compliance. While failure to meet your commitment may result in lower program payments, you will never be required to make any out-of-pocket payments.

## What are the costs to participate?

Enel pays for all metering equipment, controls, and connectivity fees associated with enrolling your site in the operating reserves program. We leverage our state-of-the-art Network Operations Center (NOC) to meet MISO's strict telemetry, bidding, and dispatch requirements, thereby eliminating any technical costs to our customers.

## How do we sign up?

Our experts are standing by to speak with you about your organization's demand response opportunity. Submit your information [here](#) to get started.



Enel provides on-demand access to your real-time energy data – giving you the information you need to perform your best during demand response events and to better manage overall energy costs.