









ERCOT demand response program options

Demand response programs support ERCOT in various ways to ensure grid stability, with high value placed on ancillary support.

CAPACITY	ANCILLARY	
ERS (Emergency Response Service)	RRS (Responsive Reserve Service)	ECRS (ERCOT Contingency Reserve Service)
 What is ERS? ERS supports ERCOT to prevent rolling blackouts due to high demand, extreme weather, or transmission issues.	 What is RRS? RRS supports ERCOT during unexpected disruptions and imbalances that last for short periods of time, such as unplanned supply outages, frequency deviations, or demand spikes.	 What is ECRS? Similar to RRS, ECRS supports ERCOT by deploying resources to address reliability issues such as forecasting errors, renewable intermittency, or the need to replace depleted reserves.
WHAT DO YOU NEED TO KNOW?		
<ul style="list-style-type: none"> ✓ The program is organized into seasons – participants choose which season(s) and the time period(s) in which they want to participate, divided by the day of the week and hours. ✓ Participants earn seasonal capacity payments for being on standby as a resource for grid emergencies. Payments are not contingent on deployment for demand response events. ✓ Participants have 30 minutes to respond. 	<ul style="list-style-type: none"> ✓ Runs year-round, and participants can set their availability daily to serve as a resource. ✓ Response time is much shorter than ERS. RRS requires participating sites to reduce demand within seconds/minutes of notification, either by shifting load to an on-site generator or curtailing energy use. ✓ All curtailment is facilitated by an Under Frequency Relay (UFR) device installed at participants' facilities to detect local frequency deviations and respond instantaneously to ERCOT instructions. 	<ul style="list-style-type: none"> ✓ Runs year-round, and participants can set their availability daily to serve as a resource. ✓ ECRS may be subject to more frequent and longer duration dispatches than ERS – to handle the ramping periods of intermittent generation sources to maintain grid stability. ✓ Requires participants to reduce demand within seconds/minutes by leveraging a fully automated curtailment method. ✓ Participants can use an Under Frequency Relay (UFR) device, but it is not required.
HOW MUCH CAN YOU EARN?		
 Earn \$40K – \$50K per year for agreeing to reduce 1 MW. Earn even if no emergency dispatches are called.	 Earn \$45K – \$70K per year for agreeing to reduce 1 MW, 24x7. Earn even if no emergency dispatches are called; however, there is typically a daily reduction in MW cleared (proration).	 Earn \$50K – \$100K+ per year for agreeing to reduce 1 MW, 24x7. Earn even if no emergency dispatches are called. Limited, to no, daily reduction in MW cleared (proration).

Why choose Enel North America?

- As part of Enel, the **global leader in demand response**, we have the required experience and market expertise
- There are **no upfront costs** to participate and **no penalties**; we shield you from risk and set you up for success
- We are **transparent about your revenue potential** and help you leverage all opportunities available to you

What's next?

Contact Enel today – our team will help you identify opportunities to participate in ERCOT demand response programs and drive maximum value from your flexible assets





Enel's solutions enable automation, unlock access to lucrative ERCOT programs, and maximize the economics of your energy.

Building management systems

Efficiency and automation are the keys to successful and lucrative participation RRS and ECRS – and a Building Management System (BMS) is a game-changer. By building into your schedule how your operations can curtail, you can focus on your day-to-day while your BMS dispatches quickly and frequently to unlock a new revenue stream.

Don't have the CapEx for a BMS? With Enel's innovative FlexUp solution, you can install a new BMS or upgrade your current BMS with no CapEx needed. Your future demand response earnings pay back the system costs – many organizations do this within 6 to 24 months.

Backup generation upgrades

Similar to the above FlexUp offering for a BMS, Enel offers solutions that provide near-zero risk financing for backup generators that help facilities increase their ability to participate in fast-response demand response programs and enhance the benefits of overall energy flexibility.

We help you unlock your facility's ability to capture more earnings by boosting your performance and available capacity. We will work with your business to understand how a remote toggle to an existing back-up generator can increase your available capacity and help you participate while minimizing disruption to your operations. We'll also configure the generator to automatically respond to dispatches and help you enroll it for demand response participation.

Under-Frequency Relay (UFR)

All RRS participants must have an Under Frequency Relay (UFR) installed at the facility in addition to 2-second telemetry. Many facilities already have existing protection relays in place to detect faults and trip their circuit breaker(s). A UFR monitors and detects frequency deviations for participation in RRS. Enel leverages your existing infrastructure to add on a UFR, using standard factory equipment to maintain existing equipment certifications and the ability to service without needing to understand a custom setup.

AI-driven energy cost management

Expand your energy strategy to address the full scope of your energy bill, not just demand response revenue streams. Real-time analytics and efficient energy management tools are essential to achieving a holistic, optimized strategy. With Enel's DynamicDR solution, you can optimize your demand response participation and manage energy costs more effectively with real-time forecasting of price, load, and coincident peaks.

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