The Electric Reliability Council of Texas (ERCOT) introduced the Responsive Reserve Service (RRS) program to help maintain the security and reliability of the electrical grid. RRS alleviates the potential for blackouts by delivering in real-time the capacity resources ERCOT needs to restore, or maintain, the grid when system reliability and reserve margins are at risk.

Businesses that are qualified to provide capacity as an ancillary service in the ERCOT market are known as a Load Resources (LR). In return, they can earn considerable payments for their flexibility while protecting equipment at their site from decaying grid frequencies. Moreover, LR’s earn payments regardless of whether their load is dispatched, as long as their load is available for the full duration of their commitment.

Who can participate?
Businesses with stable and predictable load profiles that can safely curtail automatically and instantaneously when called make great LR candidates for RRS. To maximize earnings, LR’s must have a predictable load pattern that EnerNOC can reliably estimate one day in advance. See examples of good and bad LR load profiles on the next page.

Additionally, due to the short dispatch notification window, LR’s must allow real-time telemetry to be installed at their site to send load data, breaker status, under frequency relay (UFR) status, etc. to ERCOT in real-time.

How much can I earn?
EnerNOC will work with you to establish your earnings potential based on your specific participation plan including the load and the total hours you commit. For each of the past five years, the hourly RRS clearing price has exceeded $85K per MW-yr for 24x7 participation.

Are there other benefits?
Absolutely! Decaying frequencies can have detrimental effects to the equipment at your site. The RRS program provides frequency protection to the ERCOT grid and will also prevent costly damage to your processes and equipment resulting from a power trip. In essence, you are paid to protect your operations.

How do I participate?
EnerNOC makes participation easy. We take care of the complex details so you can stay focused on running your business.

To enable your participation in the RRS program, we will register you as a Load Resource with ERCOT and install an energy monitoring device and a UFR at your site. Then, we will work with you to identify curtable load and build a bidding strategy that maximizes your earnings without jeopardizing your operations. Here is a sample bidding workflow once that strategy is in place:

Day-ahead:
- EnerNOC will develop proposed hourly offers (load and price) for your site to bid into the day-ahead market,
giving you the opportunity to confirm or update before any action is taken.

- EnerNOC will bid your offers into the day-ahead market for RRS at 10:00 a.m. CPT.
- ERCOT publishes clearing results (your final commitment) by 1:30 p.m. CPT. Once an LR is committed to the RRS market, it cannot commit to any other DR participation for that day.

Day-of:
- Ensure the load at your facility remains within 95%—150% of your offered MW value. This is critical to remain in compliance with ERCOT. Your payments will be based on your load availability, regardless of whether there is a dispatch.

**What triggers a dispatch?**
There are two scenarios for LR’s to be dispatched in the RRS program:

1. **Frequency drops below <59.7 Hz.** ERCOT requires one or more UFR’s to be installed at LR sites so that power can be interrupted automatically and instantaneously when this condition occurs.
2. **ERCOT-deployed event.** Should ERCOT experience reserve shortages or another grid emergency, LR’s are required to curtail grid usage within 10 minutes of the dispatch.

**What happens if I cannot meet my commitment?**
Customers will never pay out-of-pocket penalties to EnerNOC. If you anticipate any outages in your normal schedule, notify EnerNOC at 888-363-7662 or support@enernoc.com no later than 9:00 a.m. CPT the day prior to the outage to prevent a reduction in your RRS payment.

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**About EnerNOC**
EnerNOC is the world’s largest provider of demand response technology and services. Our energy intelligence software gives users the ability to maximize demand response performance by tracking their real time energy reductions and provides a central location to track and manage demand response payments. Our customers are supported by a world-class professional services team and a Network Operations Center (NOC) that is staffed 24x7x365. For more information, visit [www.enernoc.com](http://www.enernoc.com).