



Energy Management in PJM

Rodan Energy Management in the PJM Region

New Challenges Require New Strategies

On-going grid modernization and the transition to cleaner, renewable generation have increased the cost to deliver power to businesses. In PJM, the charges to pay for the infrastructure needed to deliver power to your facility may be as much as half of the total cost of electricity.

Value of Participation

Businesses that can curtail ≥ 1 MW during the highest peaks of the year can save from \$40k to \$180k/MW-year.



Weighing the Options

Reducing energy consumption when the grid is stressed can earn large energy user's incentive payments from the system operator and can help reduce costs by avoiding high power charges. Traditional demand response providers offer programs like Capacity Performance, Economic DR or Synchronized Reserves. However, this approach only captures part of the value.

Our Technology



Our Approach



The Rodan Difference

Rodan uses data analytics and advanced AI with proprietary algorithms to forecast when the grid will be strained so that our customers know when to strategically reduce their energy consumption at the times when utilities calculate costly delivery charges on your utility bill.

Rodan works with your facility to develop strategies and solutions to intelligently reduce power usage without impacting productivity, so you can take full advantage of all these opportunities.

Stacking the Opportunities

Based on the capabilities of your facility, Rodan's energy experts will create the best approach to take advantage of all available programs and cost savings. Rodan combines all these programs with delivery charge avoidance to capture the greatest value

Receive Alerts so You Know When to Curtail – We Make it that Simple

How Transmission Charges Are Set in PJM

These charges are often referred to a Network Integration Transmission Service (NITS) or Trans Tag. Utilities can alter these rates up to twice year to cover the increasing cost of modernizing transmission infrastructure.

The charge to a customer is based on the facility's usage during the highest hourly demand on the utility's network, often referred to coincident peaks. Depending on the utility it can be based on 1 to 5 annual peaks or the monthly peak. This is then billed to the customer each month the following calendar year.

The Rodan Advantage

Knowing when peaks are likely to happen allows businesses to shift operations to avoid electricity usage during the peak hours. This will reduce transmission charges for the entire following year. Rodan provides notification the day before a peak is expected and monitors facility performance, so our customers know exactly how much they have saved.

Average Cost Comparison

(2018 – 2024)

Average Capacity Costs

64%

Average Transmission Costs

58%

Did You Know?

Reducing 1% of Annual Energy Consumption Can Reduce 50% of Your Electricity Bill

Forecasting Accuracy with Rodan's Peak Notification System

- Forecast updated hourly versus a few times a day from the PJM ISO.
- 24/7 Network Operations Center & system monitoring
- Live energy experts

Flexible Notification Preferences

- Customized to your preferences (email/text/phone)



Phone



SMS



Mail