

## Assessing and Enabling Solar Site Energy Monitoring and Visualization

Lane Steel, a small family-owned flat-rolled steel distributor, and service center operating a 375,000-square-foot facility, wanted to enhance the data resolution of its energy operations. The OEM installer of a rooftop-mounted 273 kW solar site was unable to provide performance monitoring, which limited the ability of Lane Steel's operations team to evaluate the solar site's impact on its utility bills and energy savings. Lane Steel required a rapid assessment and off-the-shelf solutions for ongoing system performance monitoring.

### Challenge

Lacking clear historical data on the solar site's performance, Lane Steel needed to address several challenges:

1. Perform an end-to-end health-assessment of the site hardware and software
2. Troubleshoot or replace any faulty equipment
3. Install a cost-efficient, energy monitoring package

### Solution

The team's first step was to physically evaluate the site hardware and its performance. The evaluation uncovered a non-functioning inverter preventing the conversation of the solar panel's voltage from DC into usable AC.

Next, the team fixed the inverter and implemented an off-the-shelf NextEra 360 energy monitoring package that established real time data tracking of total solar generation, inverter generation, building load and total energy consumption. A display was added to the building lobby enabling the organization to visualize system performance and highlight to customers Lane Steel's focus on environmental sustainability.

### Implementation Timeline

Within 1 month

### About Us

Built on 15 years of experience, we analyze ~23 billion data points daily, with ~30 GW of renewable assets in operations, and ~\$160 billion+ in total assets. The NextEra Analytics team developed NextEra 360 comprehensive energy management software to reduce energy costs and carbon emissions, manage risks, optimize asset performance, and improve return on investments. We bring that experience to you no matter where you are in your decarbonization journey.

**For more information, visit [NextEra360.com](https://NextEra360.com).**

“ Our solar site was installed in spring 2021. From the beginning, we were having problems with inverters going offline. The OEM Installer was unable to identify the problem. Within a few weeks of arriving on-site, NextEra was able to identify and remediate the problem. ”

**Richard H. Zabrowski,**  
*Treasurer*