



# eTRAC Whitepaper



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# CAMS eTRAC

eTRAC is a CAMS proprietary software platform that provides real-time financial intelligence for energy generation assets.

## About

CAMS built eTRAC after observing that our clients who were asset owners did not have access to succinct and real-time information on the financial and operational performance of individual assets.

eTRAC addresses that deficiency by combining information including market pricing and other data, an asset's contractual structure, and operational performance to create easily digestible views.

eTRAC also solves the challenges of day-ahead trade execution by curating and processing disparate sources of data so traders focus on analyzing the market, not aggregating information.



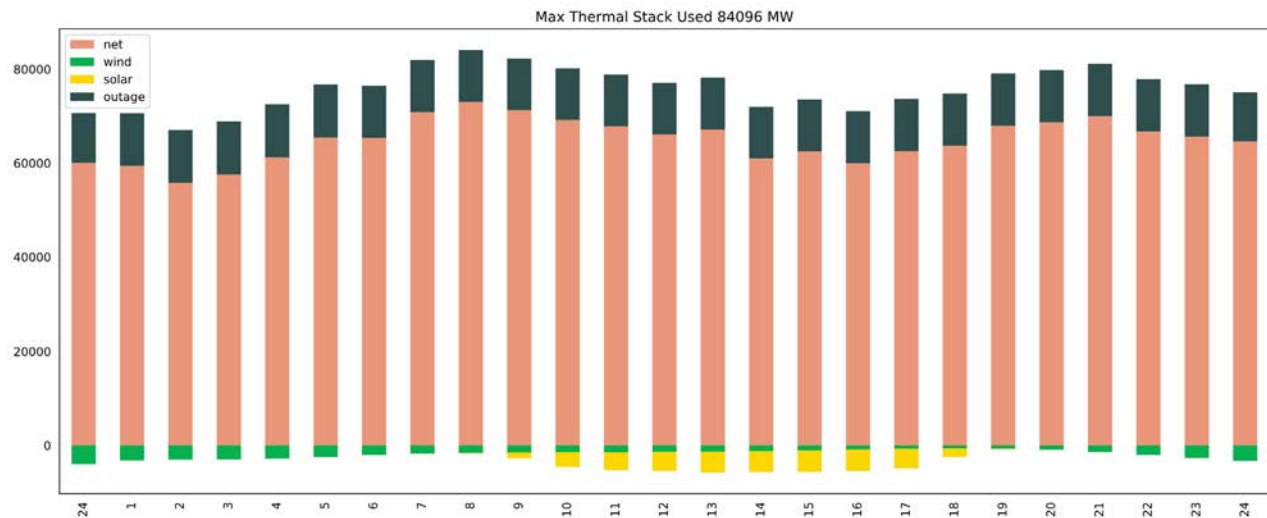


## Track All Project Revenue Sources

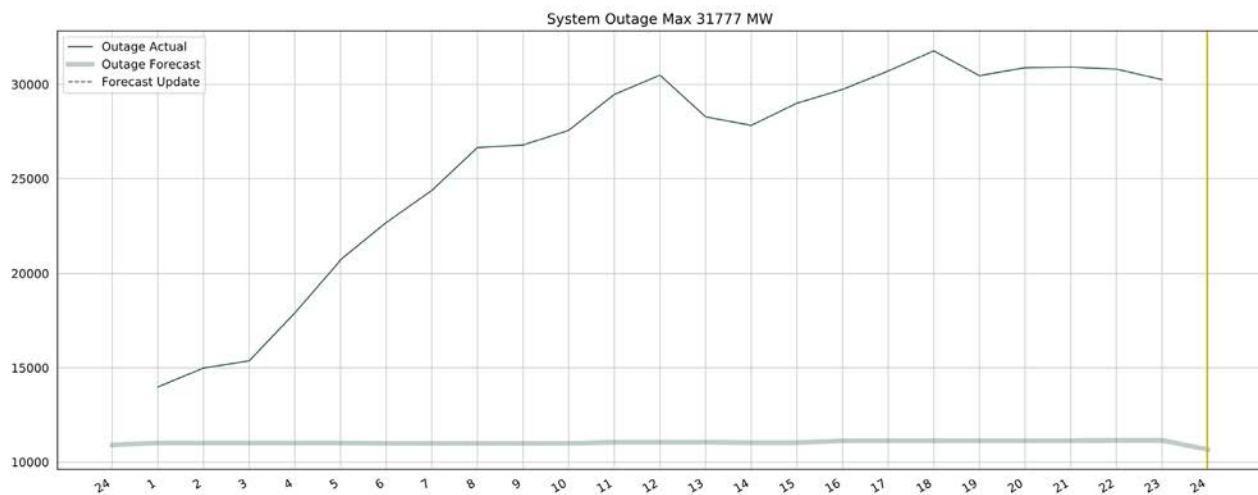
Understanding how an asset's generation interacts with the wider market pricing dynamics is fundamental to evaluating and managing financial performance and implementing energy optimization strategies. This was never more evident than the February 2021 Winter Storm in ERCOT. For users of eTRAC, detailed understanding of the dynamics allowed for proactive, not reactive, mitigation measures. eTRAC provides the tools and information to support this decision making.

## Day-Ahead View of February 15 Flow

eTRAC is particularly useful to asset owners that are or wish to implement energy optimization strategies. For example, views are provided that compare projected versus actual factors affecting the outcome of a day-ahead sales strategy, including hourly wind, load, solar and outage data.



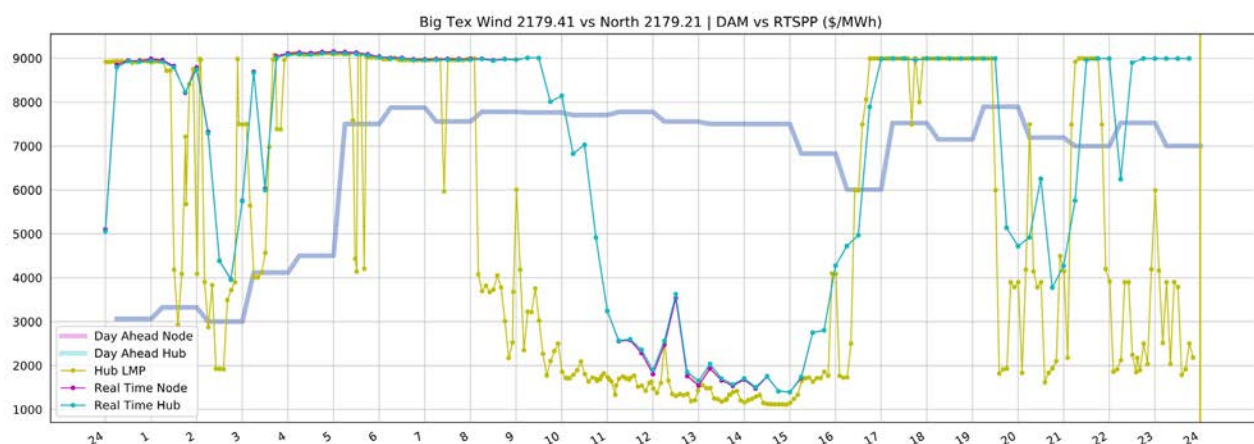
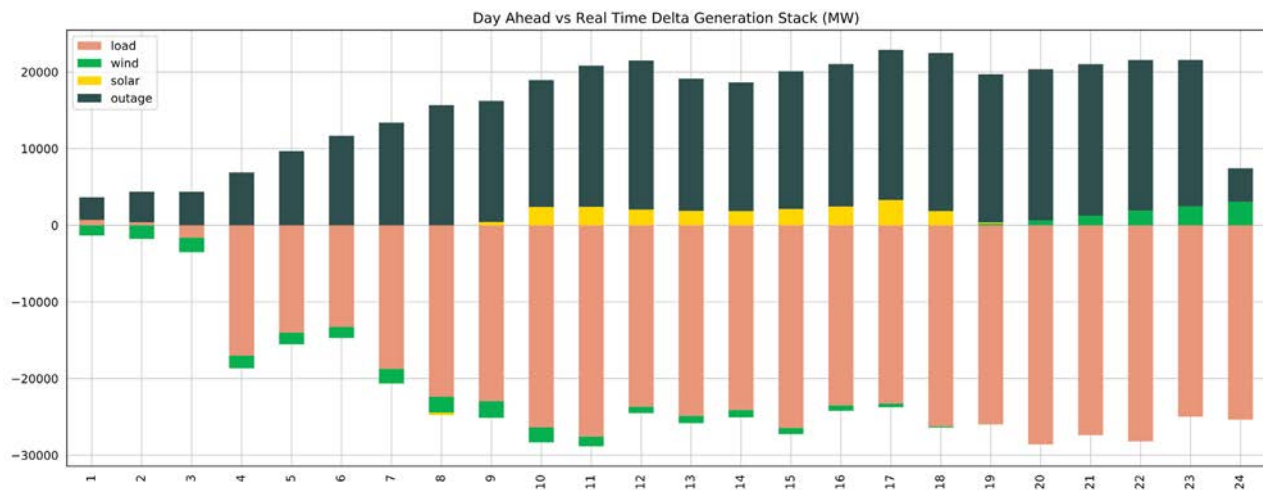
## Live Tracked Outages February 15



# eTRAC ANSWERS TYPICAL QUESTIONS FROM Asset Owners in Real Time

## 01 What market factors are driving the resource LMP price?

eTRAC provides detailed resolution tracking of project generation versus regional and system wide generation components. Additional market factors like load and outage are tracked. Net load and total system use are calculated in real-time to inform risk of volatility. Detailed price tracking is provided to quickly identify the source of any unexpected price deviations.

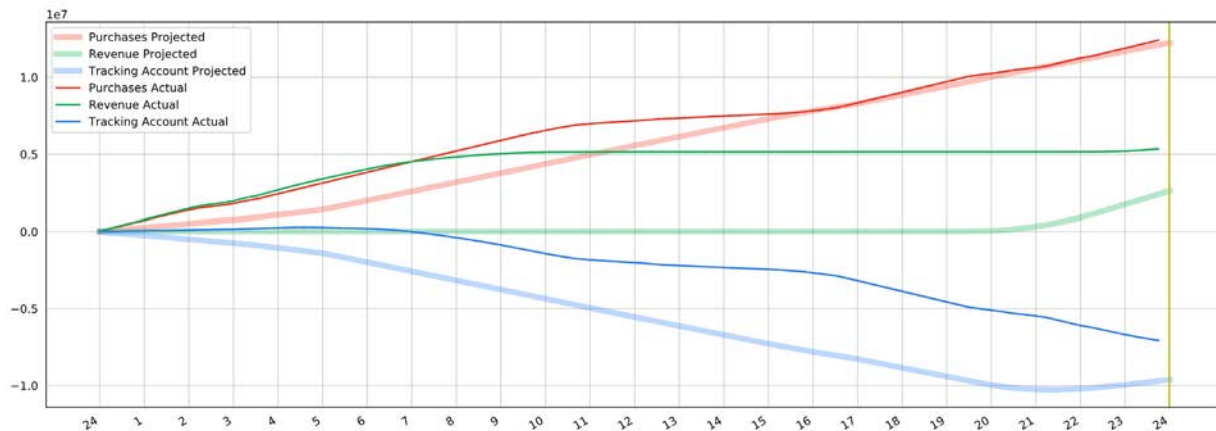


## Thermal Stack and Pricing Dynamics on February 15



## 02 What was the impact of X market event on the project?

eTRAC was designed to give 24/7 direct visibility on mobile, tablet or computer displays with no on-device data downloading, interaction or manipulation. Asset owners can see the results from their pocket, wherever and whenever they desire.



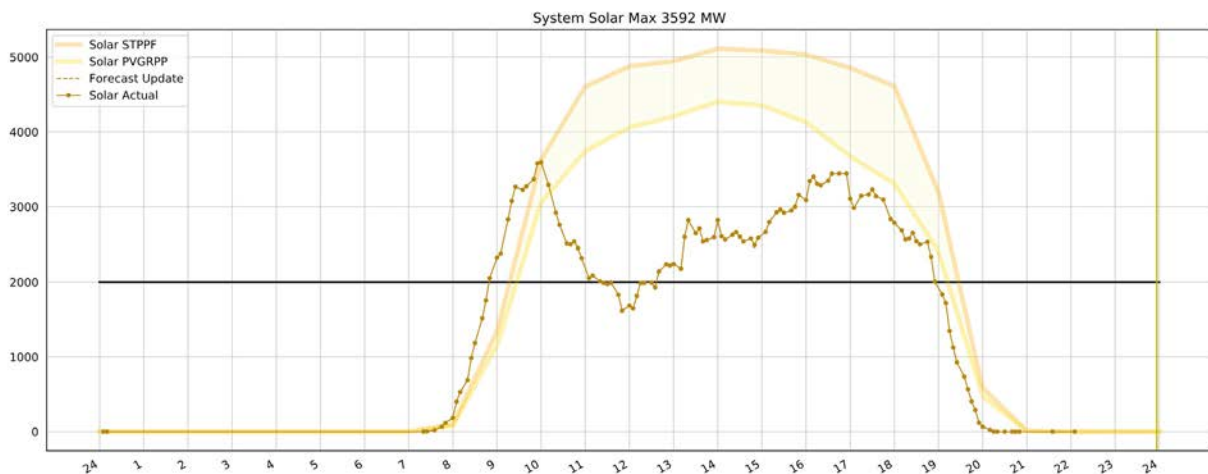
Theoretical Tracking Account Impact February 15





### 03 Why is the project experiencing basis?

eTRAC provides detailed basis pricing views with correlated driving market factors of generation and load. While short term transmission outages can cause temporarily severe congestion, understanding long term shifts in generation and transmission capacity are situations for risk mitigation techniques in improve project outcomes.

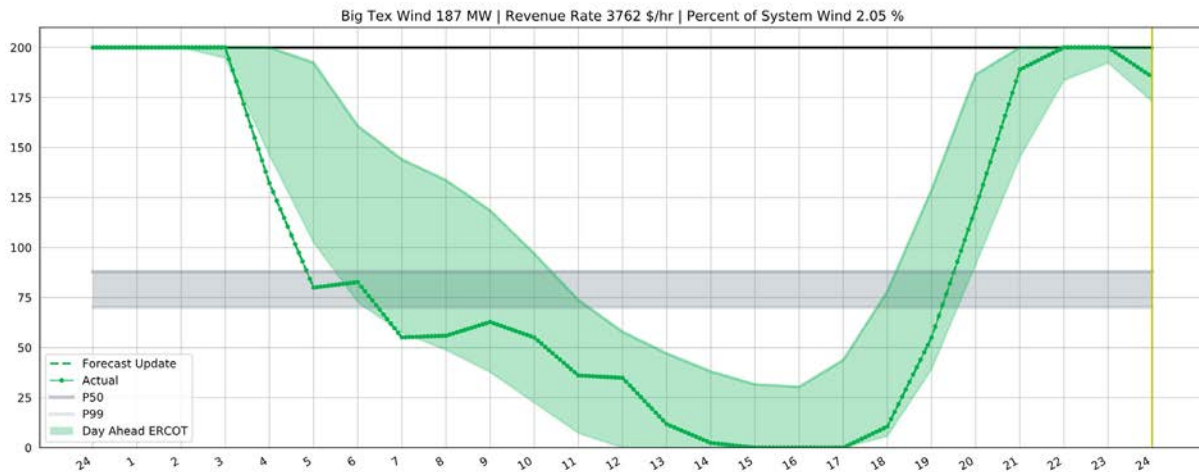


Example Day of System Wide Solar Curtailment



## 04 Why is generation less than forecasted?

A key factor in the success of any energy project is meeting generation targets. A variety of impacts can hurt production (i.e. downtime, derates, curtailments, low efficiency, etc.), but understanding how the missing generation impacts revenue and contractual exposure creates better prioritization of CAPEX to resolve generation issues. eTRAC provides the information to evaluate that.



**Wind Production Significantly Missed Forecast**

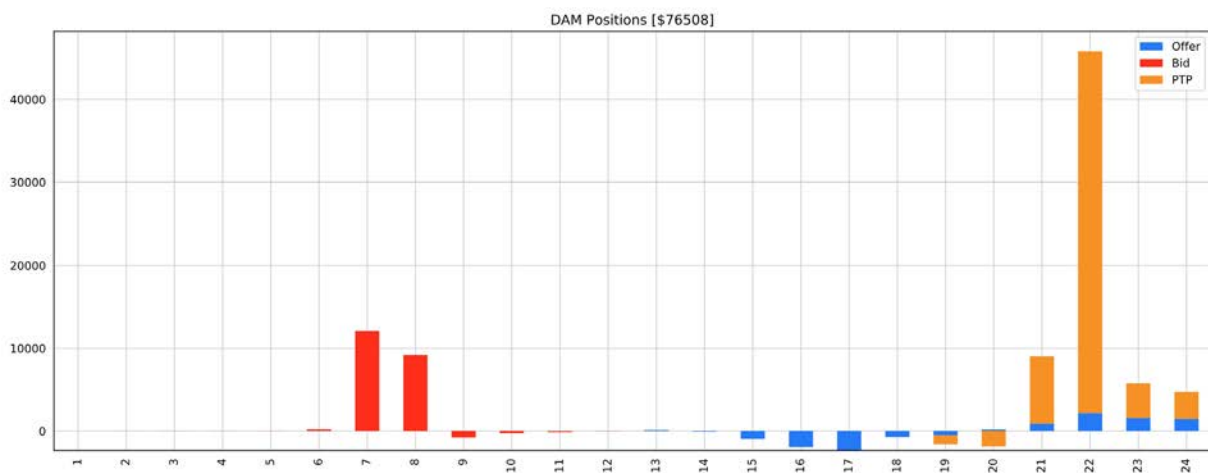






## 05 How can the project increase revenue and profitability?

Each project presents unique opportunities and challenges, but our most common answer to this question is creating a detailed risk-adjusted, day-ahead strategy and performing high level execution of the strategy. eTRAC has been specifically developed for high-quality, 365-day-a-year execution of a tailored day-ahead trade strategy. Any project, regardless of offtake agreement, can find an opportunity to generate additional revenue from their market position.



**Energy Offers, Energy Bids and Point-To-Points  
Performance all Tracked in Real-Time**

# How can we develop and execute an energy optimization strategy for your project?

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