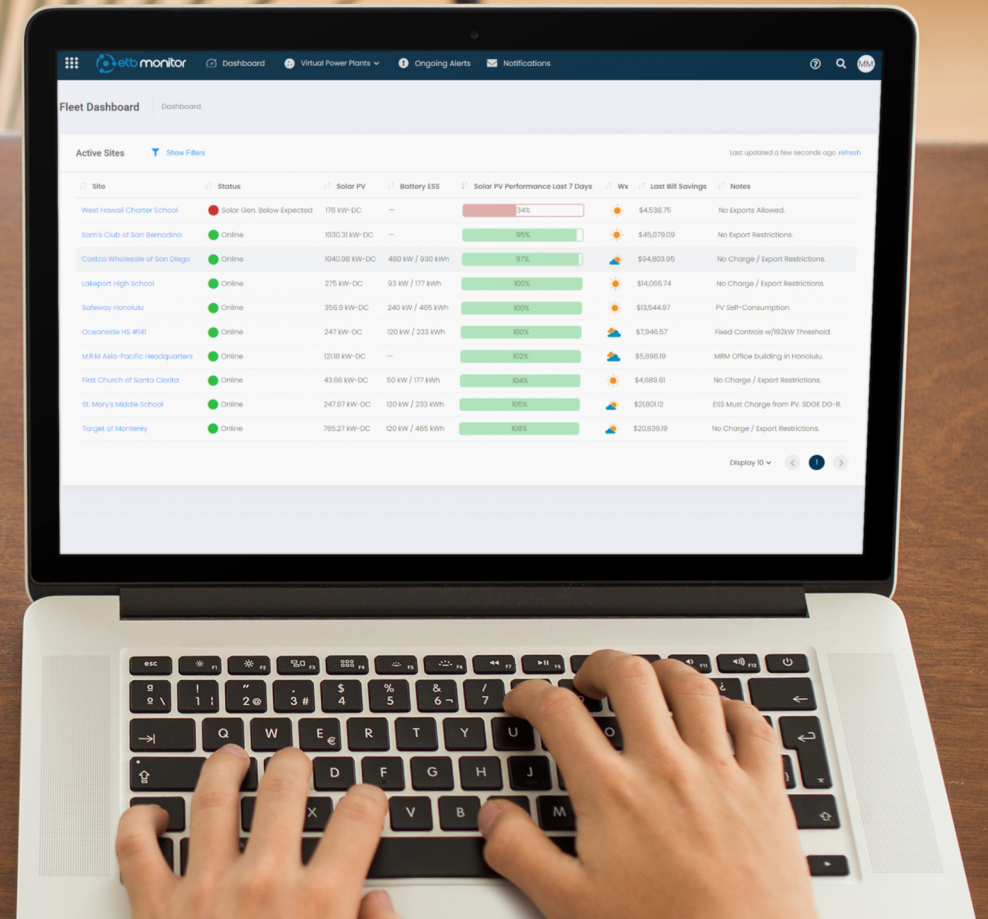




# ETB Monitor

## COMPLETE TRANSPARENCY OF YOUR SOLAR & STORAGE ASSETS

*A robust monitoring platform that's directly connected  
to your modeling and control software for an  
end-to-end software experience*





# END-TO-END PLATFORM



Energy Toolbase is an industry-leading software platform that provides a cohesive suite of project modeling, storage control, and asset monitoring products that enable solar and storage developers to deploy projects more efficiently.

## ► MODEL ETB DEVELOPER

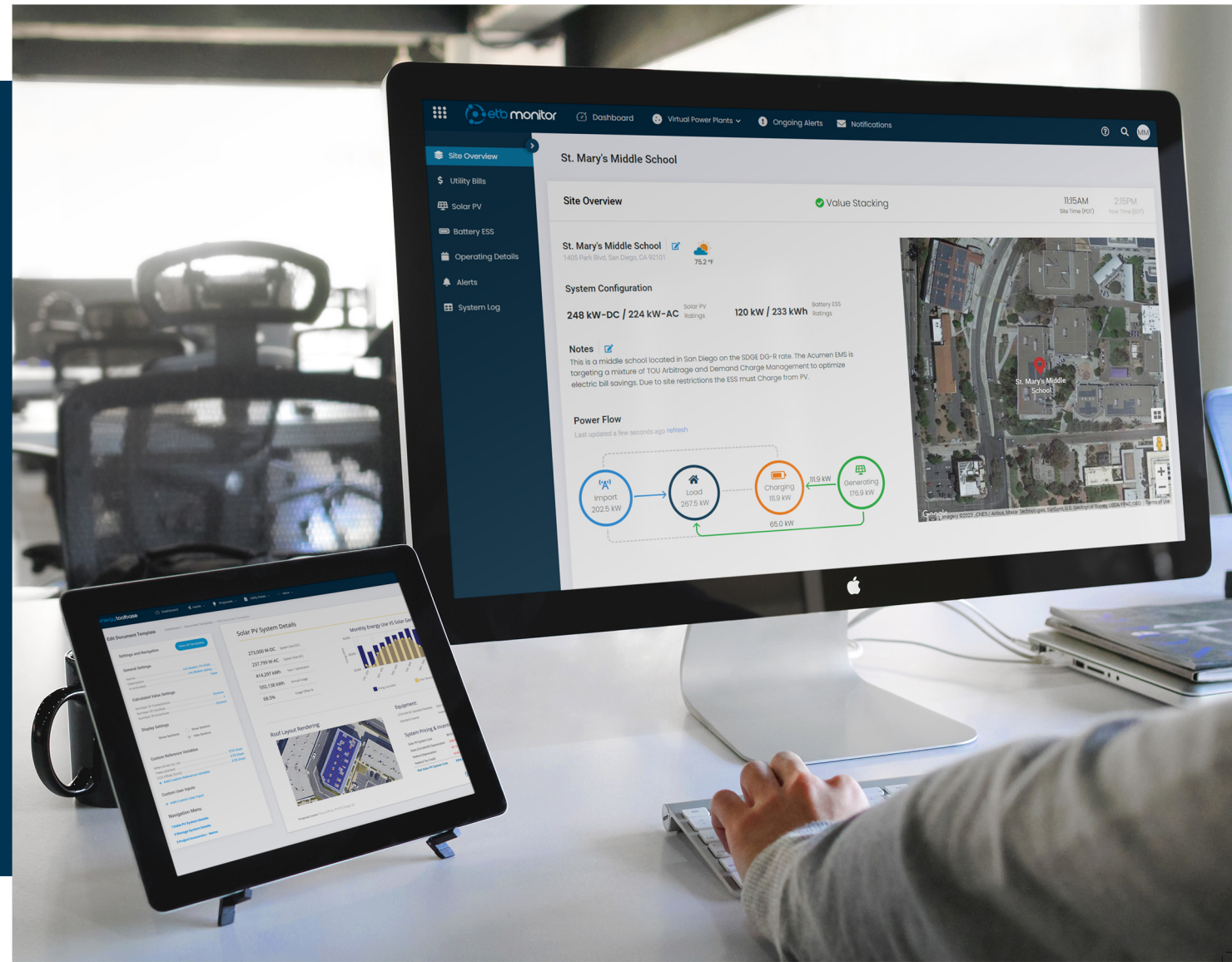
Gold standard, industry-leading software platform for modeling and proposing the economics of solar and storage projects.

## ► CONTROL ACUMEN EMS™

Intelligent control system software utilizing machine learning and AI to forecast and optimally discharge energy storage systems.

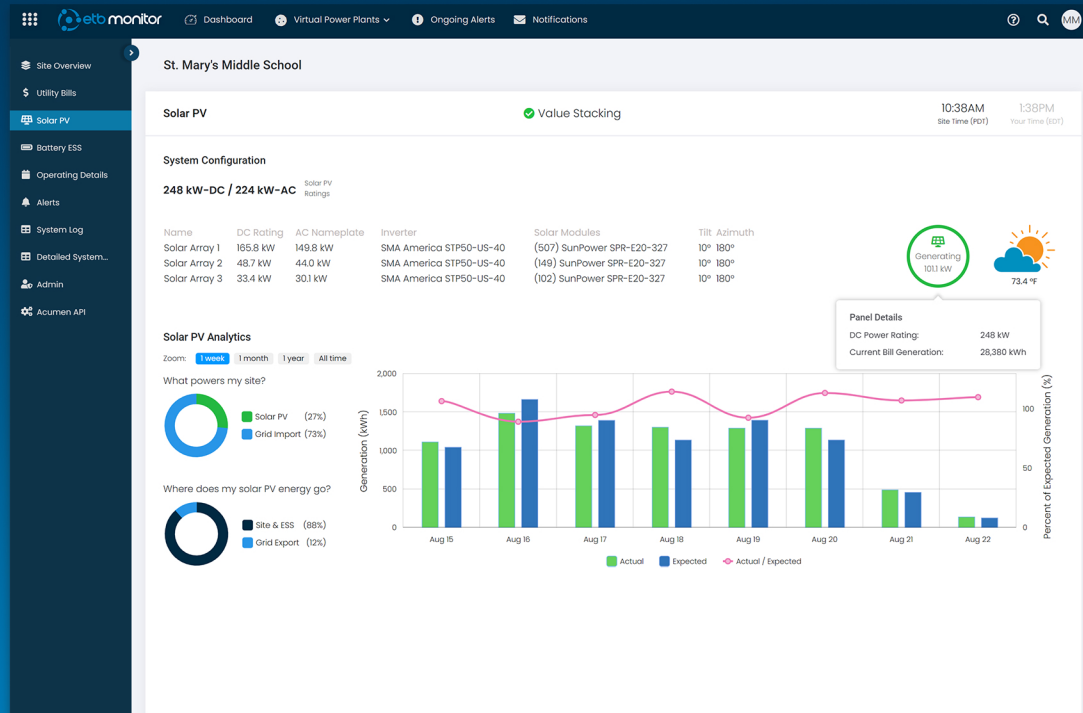
## ► MONITOR ETB MONITOR

Complete transparency into the real-time operation, performance, and savings of your solar and storage projects.

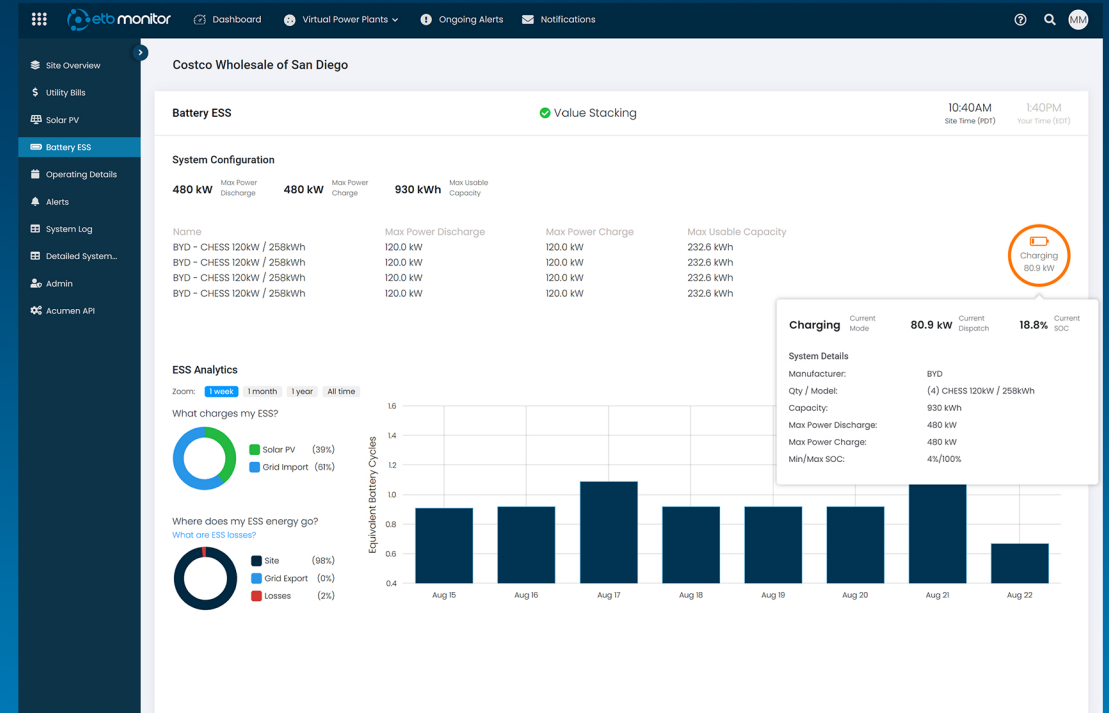




# FEATURES & FUNCTIONALITY



**Figure 1:** Visualize Actual vs Expected Solar Generation



**Figure 2:** See Detailed Energy Storage System Analytics



## END-TO-END

End-to-end platform allowing you to quickly compare system performance to ETB Developer sales proposals.



## INTEGRATED PROPOSALS

Closeout proposals in ETB Developer and create sites within ETB Monitor using proposal data.



## INTEGRATED WITH ACUMEN EMS

System specs and configurations seeded directly from your ETB Developer proposal. Full ESS monitoring and management.



## TRUSTED BILL CALCULATIONS

Savings analysis powered from the same ETB Developer savings engine and extensive database of 100,000+ rates.



## DEMAND RESPONSE

Full control to schedule dispatch of your storage assets. Group your assets in virtual power plants for scalable asset management.



## NEW! SOLAR MONITORING

Now available for solar-only projects! Compare actual solar generation to expected generation and see detailed solar electric bill savings.



# TRANSPARENT UTILITY BILL COST & SAVINGS



etb developer

Dashboard

Leads

Proposals

Utility Rates

More

AG

Edit Energy Use Profile

Step 1

What type of energy usage data do you have?

Step 2

Enter Interval Data Info

Step 3

Enter Energy Use Profile Info

General Info

Utility Rate Details

\* Energy Use Profile Name

(Whitepaper Ready - 250 kWh) Office

Interval Data Start Date

1/1/2018

Show True Up Details

☐

Rate Details

AL-TOU

Utility: SDG&E

Effective Date: 6/1/2022

Connection Type: Secondary

Has CARE Discount: False

Inside SD City Limits: True

Show Rate Schedule Details

Bill Date Ranges		Net Energy Use (kWh)				Max Demand (kW)		Charges (\$)				
Start Date	End Date	Season	On Peak	Off Peak	Super Off Peak	NC / Max	On Peak	Other	NBC	Energy	Demand	Total
1/1/2018	2/1/2018	W1	9,216	28,573	10,597	184	123	\$211	\$1,408	\$5,743	\$9,835	\$17,197
2/1/2018	3/1/2018	W1	7,449	23,430	8,087	175	127	\$211	\$1,134	\$4,840	\$9,659	\$15,644
3/1/2018	4/1/2018	W2	8,871	17,421	18,995	137	127	\$211	\$1,318	\$5,143	\$8,400	\$15,072
4/1/2018	5/1/2018	W2	9,360	17,604	20,060	160	156	\$211	\$1,368	\$5,345	\$10,043	\$16,968
5/1/2018	6/1/2018	W3	10,126	32,185	10,692	203	170	\$211	\$1,542	\$6,320	\$11,894	\$19,967
6/1/2018	7/1/2018	S1	10,869	31,140	11,584	217	217	\$211	\$1,559	\$5,762	\$16,366	\$23,898
7/1/2018	8/1/2018	S1	12,715	30,875	12,374	208	208	\$211	\$1,628	\$6,123	\$15,688	\$23,650
8/1/2018	9/1/2018	S1	12,456	33,425	12,964	217	217	\$211	\$1,712	\$6,366	\$16,366	\$24,656
9/1/2018	10/1/2018	S1	10,945	30,374	14,854	250	250	\$211	\$1,635	\$5,990	\$18,855	\$26,691
10/1/2018	11/1/2018	S1	9,599	25,567	11,486	175	142	\$211	\$1,357	\$5,019	\$11,803	\$18,391
11/1/2018	12/1/2018	W1	8,638	23,393	11,528	151	146	\$211	\$1,267	\$5,147	\$9,441	\$16,067
12/1/2018	1/1/2019	W1	8,540	23,657	12,487	203	123	\$211	\$1,300	\$5,230	\$10,465	\$17,206
Total	-	-	118,784	317,644	155,708	-	-	\$2,530	\$17,230	\$66,829	\$148,816	\$235,405

GO BACK

DELETE ENERGY USE PROFILE

CANCEL

SAVE

View a precise breakdown of utility rate charge types (e.g., energy, demand, NBC's, other), based on your customer's rate tariff

Charges After PV/ESS (\$)					
Other	NBC	Energy	Demand	Total	
\$211	\$789	\$2,204	\$4,866	\$8,071	
\$211	\$509	\$1,010	\$3,925	\$5,654	
\$211	\$471	\$476	\$2,891	\$4,049	
\$211	\$440	\$62	\$2,820	\$3,532	
\$211	\$570	\$546	\$3,612	\$4,939	
\$211	\$529	\$787	\$4,370	\$5,896	
\$211	\$560	\$776	\$4,472	\$6,020	

View a transparent breakdown of avoided cost of your operational solar & storage systems in the field, for each billing period



etb monitor

Dashboard

Virtual Power Plants

Ongoing Alerts

Notifications

Site Overview

Utility Bills

Solar PV

Battery ESS

Operating Details

Alerts

System Log

St. Mary's Middle School

Utility Bills

Utility Rate

DG-R

Utility: San Diego Gas & Electric

Effective Date: 2023-01-01

Connection Type: Secondary

Has CARE Discount: False

Inside SD City Limits: True

Historical Utility Bills

Bill Date Range

Aug 1, 2023 - Sep 1, 2023

Jul 1, 2023 - Aug 1, 2023

Utility Bill Details

Bill Date Range

Jul 1, 2023 - Aug 1, 2023

\$21,801

Total Savings

\$17,128

Savings From Solar

\$4,673

Savings From ESS

Charges & Savings

Charges & Savings (\$)

Other

NBC

Energy

Demand

Total

Charges:

Changes from Solar Pv:

Changes from Battery:

Final Bill:

Energy Usage

Energy Usage (kWh)

Original Energy Usage:

kWh Change from Solar PV:

kWh Change from Battery:

Final Energy Usage:

Demand

Demand (kW)

Original Demand:

kW Change from Solar PV:

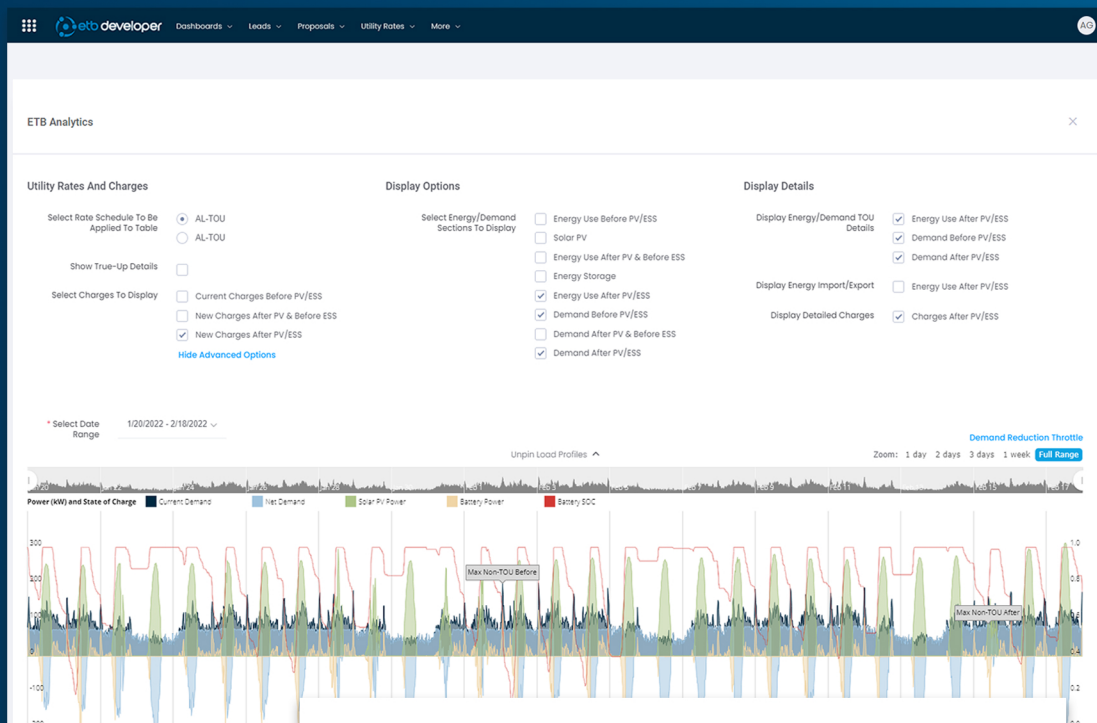
kW Change from Battery:

Final Demand:

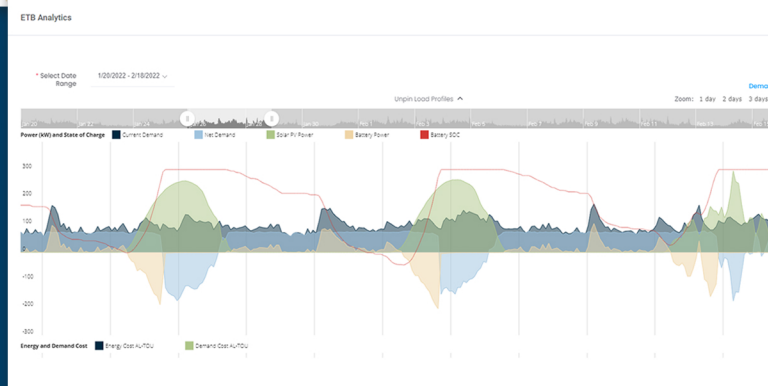
Bill Date Range					
Jul 1, 2023 - Aug 1, 2023					
\$21,801	Total Savings	\$17,128	Savings From Solar	\$4,673	Savings From ESS
Charges & Savings					
Charges & Savings (\$)	Other	NBC	Energy	Demand	Total
Charges:	\$226	\$2,267	\$23,889	\$5,468	\$31,849
Changes from Solar Pv:	—	-\$916	-\$16,185	-\$26	-\$17,128
Changes from Battery:	—	-\$40	-\$3,170	-\$1,464	-\$4,673
Final Bill:	\$226	\$1,310	\$4,534	\$3,978	\$10,048



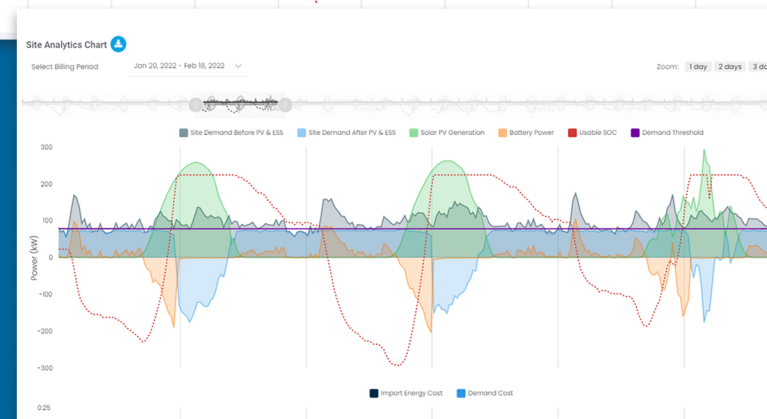
# SITE ANALYTICS & VISUALIZATIONS



Visualize interval meter data (e.g., site load, PV production, ESS dispatch) during the sales & modeling process to precisely quantify cost & bill savings



Transparently view site metered data via our visualization tool to understand system performance & validate the quantified avoided cost of operational systems





# HARDWARE CONFIGURATIONS

Our turnkey, fully wired enclosure houses all of the necessary hardware components in a single box, enabling a streamlined installation and commissioning. Pre-configured for the specific project and application.

✓ Turnkey

✓ Rugged Outdoor Enclosure

✓ Revenue Grade Metering

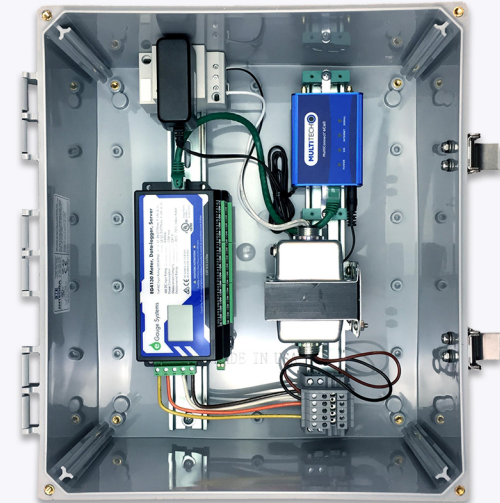
✓ LTE 4G as an Option

## Acumen Control Center



Our full-featured monitoring solution comes standard when deploying our Acumen EMS controls software. Real-time insights into the operational performance and savings of your solar + storage systems.

## PV Only - Monitoring



Our solar PV-only monitoring solution can be deployed onto any existing or upcoming project. Complete transparency into your PV systems performance, and the corresponding avoided cost achieved.



# THE ETB DIFFERENCE



## The Only End-to-End Software Solution

There has never been a solution on the market that lets developers and project managers model, control, and monitor their projects entirely from one platform and with one company. Empowers developers to model projects more efficiently and deploy more projects.



## Industry-Leading Customer Service & Support

Our team provides personalized training and support to tailor our products to fit your needs. We also provide access to our expert rates team, proposal auditing, performance reviews, and more. You will be fully supported by our team from modeling to commissioning and beyond.



## Gold Standard Electric Bill & Savings Analysis

We are widely considered the market leader for utility rate and avoided cost analysis of solar and energy storage projects that translates through every step of your project. Track your actual savings versus your original modeled proposal.



**Learn More About Our Products:**  
[www.energytoolbase.com](http://www.energytoolbase.com)  
(866) 303-7786