



ETB Consulting

Solar and Energy Storage Analysis



Design Summary

1,661.1 kW-DC

1,284.8 kWh /
642.4 kW

Solar PV Power Rating

Energy Storage System Rating

Payment Options	Cash Purchase w/ O&M
Total Payments	\$4,628,816
Total Incentives	\$2,840,063
Net Payments	\$1,688,753
Payback Period	4.7 Years
IRR (20 Year)	18.1%
NPV (20 Year)	\$2,840,930

Solar PV System Layout

The Solar PV System design shown below is preliminary and should only be used for budgeting purposes.



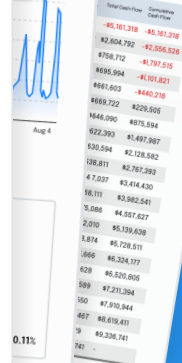
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LOGO



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\$1,008,568
1,284.8 kWh
\$785 / kWh

Energy Deployment Support Services

Professional services that support solar and energy storage project deployment across the planning, implementation, and optimization phases. Our team of domain experts acts as an extension of your team.

Why Choose ETB Consulting

35+
Years

Combined
Team Experience



Solar and Energy Storage Analysis



Design Summary

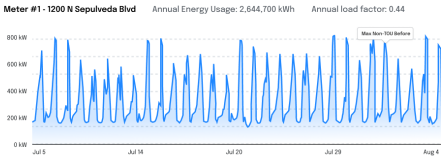
	1,661.1 kW-DC	1,284.8 kWh / 642.4 kW
	Solar PV Power Rating	Energy Storage System Rating
Payment Options	Cash Purchase w/ O&M	
Total Payments	\$4,628,816	
Total Incentives	\$2,843,953	
Net Payments	\$1,684,793	
Payback Period	4.7 Years	
IRR (20 Year)	18.1%	
NPV (20 Year)	\$2,843,953	

Solar PV System Layout

This Solar PV System design shown below is preliminary and should only be used for budgeting purposes.



Energy Use Profile



Solar PV System Details



Solar PV System Cost & Incentives

Solar PV System Cost	\$4,152,750
State 10% Rebate	\$405,750
Federal Tax Credit	\$1,245,825
Federal - MACRS Bonus Depn	\$75,250
CA LCRS REC Income	\$585,858
Net Solar PV System Cost	\$1,202,897

Solar PV System Specs

DC Power Rating	1,661.1 kW-DC
AC Power Rating	1,468.7 kW-AC
Inverter Lifespan	20 Years
Panel Lifespan	Over 20 Years
Panel Type	(33%) C Cell 400W

Environmental Benefits

Tons of CO2 Offset	4,338
Miles by Car Offset	84,503,089
Trees Planted	620,637

Financial Analysis



4.7 Years	18.1%	180.9%	\$3.4M						
Payback Period	Rate of Return	Return on Investment	Net Present Value						
Years	Project Cost	G&P / Equipment Depreciation	Electricity Savings	Cost Savings	Value of CO2 Offset	Value of M&C Rebate	Federal Tax Credit	Net Cash Flow	Compound Cash Flow
Upfront	-	\$484,907	\$48,827	\$37,702	\$8,916	\$475,074	\$1,245,825	\$302,370	\$2,843,795
1	-	\$492,412	\$12,128	\$31,443	\$36,770	\$8,916	\$758,772	-	\$-757,535
2	-	\$500,334	\$12,104	\$31,193	\$36,770	\$8,916	\$106,133	-	\$695,394
3	-	\$507,920	\$12,089	\$30,941	\$36,770	\$8,916	\$63,662	-	\$661,603
4	-	\$517,725	\$12,021	\$30,689	\$36,770	\$8,916	\$63,662	-	\$666,722
5	-	\$528,193	\$11,960	\$30,434	\$36,770	\$8,916	\$31,877	-	\$646,090
6	-	\$534,702	\$11,884	\$30,181	\$36,770	\$8,916	-	-	\$622,293
7	-	\$543,240	\$11,793	\$29,927	\$36,770	\$8,916	-	-	\$602,584
8	-	\$551,827	\$11,685	\$29,673	\$36,770	\$8,916	-	-	\$578,811
9	-	\$560,431	\$11,561	\$29,420	\$36,770	\$8,916	-	-	\$547,037
10	-	\$569,054	\$11,418	\$29,166	-	-	-	-	\$566,111
11	-	\$577,690	\$11,267	\$28,913	-	-	-	-	\$575,086
12	-	\$586,333	\$11,075	\$28,659	-	-	-	-	\$582,070
13	-	\$594,974	\$10,873	\$28,405	-	-	-	-	\$588,874
14	-	\$603,648	\$10,648	\$28,152	-	-	-	-	\$595,688
15	-	\$612,339	\$10,409	\$27,898	-	-	-	-	\$602,500
16	-	\$621,058	\$10,158	\$27,644	-	-	-	-	\$609,389
17	-	\$629,794	\$9,895	\$27,391	-	-	-	-	\$616,350
18	-	\$638,558	\$9,620	\$27,137	-	-	-	-	\$623,487
19	-	\$647,340	\$9,335	\$26,884	-	-	-	-	\$630,701
20	-	\$656,148	\$9,041	\$26,630	-	-	-	-	\$637,915
TOTAL	\$5,161,316	\$461,023	\$11,674,949	\$460,119	\$695,659	\$367,103	\$463,157	\$463,295	\$1,245,825

Inputs & Assumptions

Design Information

Total System Cost	\$4,152,750
Total Incentives	\$2,843,953
Total Net Cost	\$1,308,797

Solar PV

Total System Cost	\$4,152,750
Total Power Rating	1,661.1 kW-DC
Installed Cost per Watt	\$2.50 / W-DC

Energy Storage System

Total ESS Cost	\$1,000,000
Total Capacity	1,284.8 kWh
Installed Cost per Capacity	\$785 / kWh

On-Demand Industry Expertise

Gain immediate access to seasoned specialists and technical expertise without the cost and commitment of expanding your full-time staff.

Hands-On Project Execution

Move from strategy to results faster with a team that not only provides recommendations but actively supports implementation and project delivery.

Accelerated Growth, Lower Costs

Reduce overhead, streamline operations, and bring projects online more efficiently with flexible professional services tailored to your business needs.

Project Development Expertise

Decades of combined full-lifecycle project development experience, from feasibility analysis to EPC and ongoing operations and maintenance.

Localized Energy Market Insights

Access to in-depth regional market expertise, including utility rate structures, regulatory requirements, incentive landscapes, and optimization strategies to improve project profitability.

Who We Serve:

 Corporations

 Business Owners

 Facility Managers

 Project Developers

 Financiers & Investors

Consulting Services Completed Projects

Our team performs a comprehensive technical performance and financial viability on a project on your behalf. We evaluate all aspects of your project, making recommendations on optimal system sizing, rate tariff, and incentive program stacking strategies.

✔ **Data, Rates & Policy**

- ▶ Market Rates & Utility Analysis
- ▶ Custom Rates & Load Development

✔ **Professional Support**

- ▶ Premium Account Set Up
- ▶ System Design & Modeling
- ▶ Portfolio Feasibility Studies

✔ **Pre-Construction Advisory**

- ▶ Bid Review & Stakeholder Support
- ▶ Interconnection & Electrical Review
- ▶ RFP Advisory Support

✔ **Onsite & Post Construction**

- ▶ Energy Performance Analysis
- ▶ SGIP & REC Services

2,286 MW

Total PV Capacity

\$1.09B

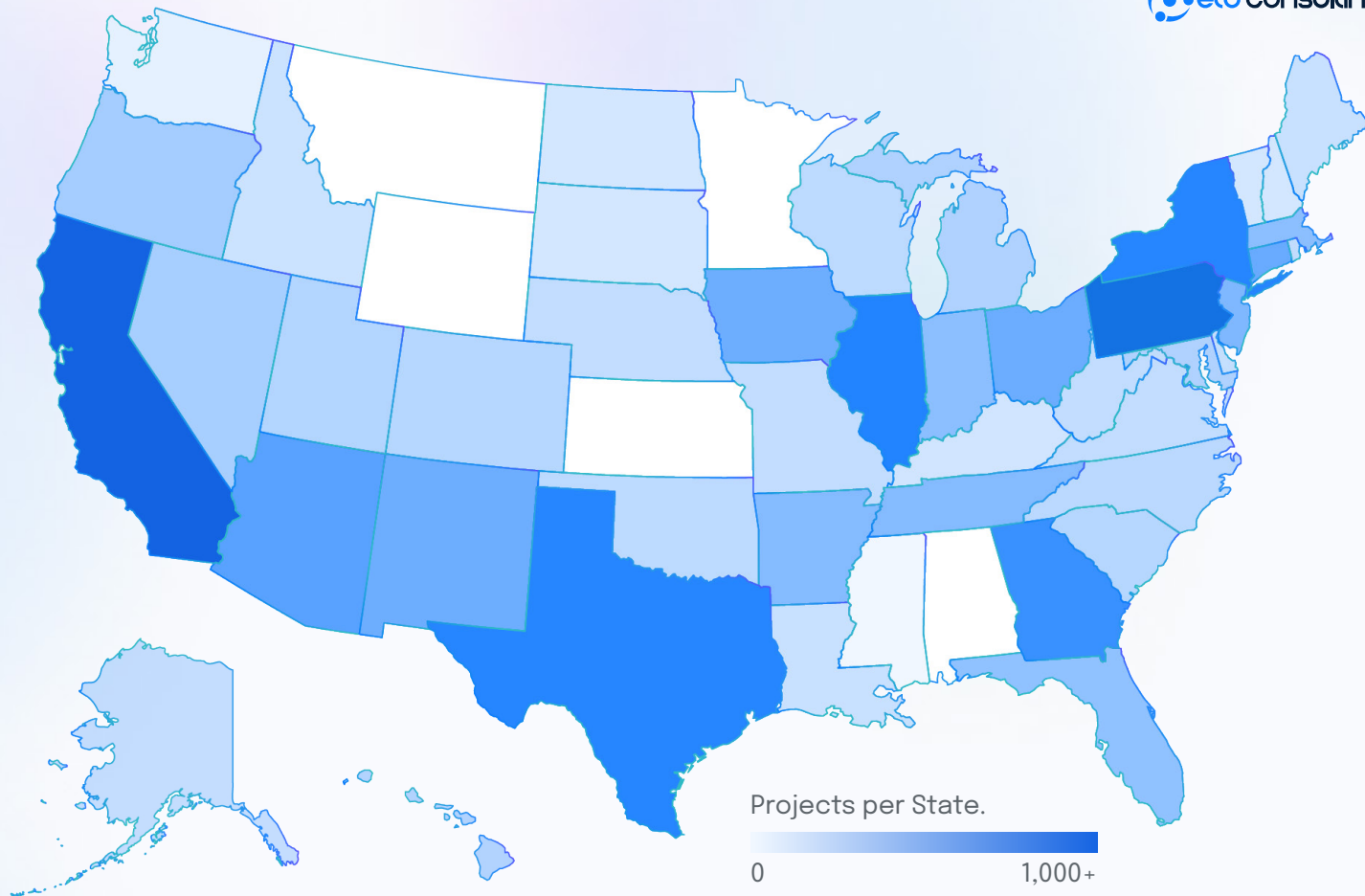
Total PV Savings

9,526 MWh

Total ESS Capacity

\$161.7M

Total ESS Savings



Client Story

Powering a Confident Transition to Developing Commercial Solar

Client Feedback

“Very impressive and inspiring for me to work with your team.

The Challenge

The client was transitioning from residential to commerical solar developement, facing new complexities and regulatory requirements. To remain compliant, they needed to ensure proposals were accurate and aligned with evolving industry regulations. The client sought out our expertise and guidance to navigate utility data and commerical modeling tools.

The Solution

ETB Consulting supported the client’s commercial solar project by analyzing utility data, exploring solar PV layouts, ESS models, incentives, and guiding proposal and modeling strategy. The team also helped reactivate the client’s ETB Developer account and retrieve proposal data. The client became a repeat ETB Consulting customer, submitting two additional requests that same day.

	Location Illinois, USA	Project Size 155.8 kW-DC / 60 kW / 60 kWh
Company Type Solar Developer	Segment Small / Medium Business	Turnaround 3 Business Days

ETB Consulting Team



Yulia Krivchenkova

Manager



Allison Diefenbach

Consulting Specialist



Haley Von Achen

Professional Services Sales Specialist



Cheyenne Arana

Proposal Specialist



Erin Hickey

Proposal Specialist



Rebecca Poznansky

Proposal Specialist

Our Data and Consulting team maintains our utility rate and incentive databases. They are subject matter experts in all things rate tariffs, net energy metering frameworks, and incentive programs. They generally run the preliminary analysis that gets shared and reviewed by our clients. Our team is guided by three core principles: Accuracy, Objectivity, and Transparency.

Engagement Journey



Step 1



Free Consultation

We begin with a conversation to understand your organization, objectives, and challenges to confirm alignment and determine whether ETB Consulting is the right fit.

Step 2



Project Discovery

We take a deeper dive into your requirements, project goals, and constraints to identify the services and level of support needed for success.

Step 3



Scope & Pricing

ETB develops a defined scope of work and provides a preliminary quote aligned to your needs—delivering clear expectations and transparent pricing before moving forward.

We pride ourselves
in getting everything
done in as little as
5 business days.

Quick Turnaround



Get started today!

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our consulting team!

www.energytoolbase.com
(866) 303-7786