CASE STUDY

PV & BESS FEASIBILITY STUDY

BACKGROUND

Gransolar Group (Gransolar) is a renewable energy company specializing in photovoltaic (PV) (solar) energy and energy storage solutions. Gransolar engaged EPE for support with extending the feasibility analysis for PV and battery energy storage (BESS) projects in Canada.

CHALLENGE

One of the primary challenges extending the feasibility for PV and BESS projects in Canada lies in navigating the complexities of the country's energy market.

SOLUTION

In Ontario, EPE conducted a sensitivity analysis of BESS projects, evaluating the impact of transmission and distribution use on the overall profitability. Through a comparative analysis of revenue and operating expenses (OPEX), EPE identified key cost drivers and revenue streams, enabling Gransolar to optimize BESS operations for maximum income generation. A detailed report was developed, providing a side-by-side comparison of project revenues across the lifecycle.

In Alberta, EPE executed a high-level feasibility analysis of PV+BESS projects, analyzing market conditions and forecasting potential revenue. This involved data collection from market reports, government publications, and industry experts.

CLIENT

GRANSOLAR GROUP

TYPE

Renewable Energy

SECTOR

Solar

ISO

AESO and IESO

LINE OF BUSINESS

System Studies

SERVICES PROVIDED

- Feasibility Study
- Sensitivity Study
- Comparative Revenue & OPEX Analysis
- Market Research & Data Collection
- Revenue Forecasting

LOCATION

Alberta and Ontario

COMPLETED DATES

2023

EPE ELECTRIC POWER ENGINEERS

Delivering Energy Intelligence