Capability Statement

Polygon Energy: Powering Your Sustainability Journey

Grid-Connected Solar& Battery | Community-Scale Battery | Residential & Commercial Installation

Standalone Off-grid Solar | Renewable Energy System Design | Renewable Energy Partner | EVSE

Rapid EV Charging Infrastructure | EV Charging | Renewable Energy Generation | Protection Study

Feasibility Study | Power Flow Study | Power System Modelling | Microgrid | Peak Demand Reduction

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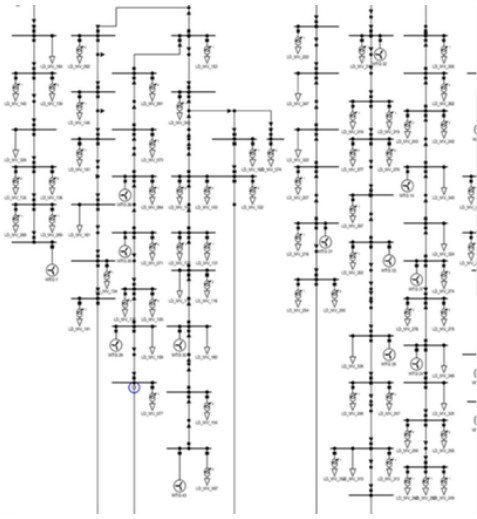
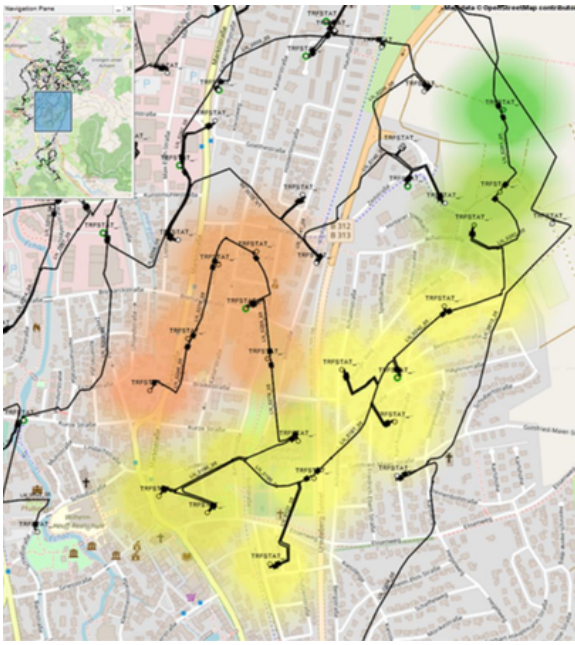
ABOUT US

Polygon Energy offers a comprehensive suite of electrical and renewable energy solutions. From design and feasibility studies to full project implementation and maintenance, we support our clients at every stage of their renewable energy journey.



Led by Bhavin Suthar, Polygon Energy has a solid track record of delivering large-scale electrical installations, including several award-winning solar and battery-powered projects.

As a leading provider of electrical engineering and renewable energy solutions, Polygon Energy specialises in reliable, customised solutions designed to meet the evolving energy needs of our clients. With proven expertise in solar energy, battery storage, and electrical systems, we deliver forward-thinking, robust solutions that help businesses achieve energy independence and sustainability.



SERVICES

Grid-Connected Solar & Battery Solutions

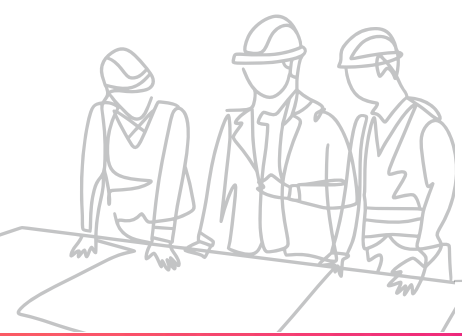
Our expertise extends across the residential and commercial sectors. We design and implement grid-connected solar and battery systems that maximise energy production and optimise storage capacity, offering cost-effective and sustainable energy solutions for diverse applications.

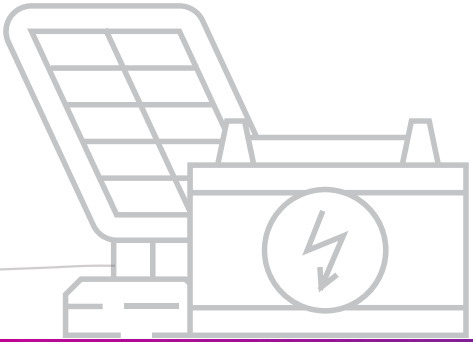
Standalone Off-Grid Solar Systems

For areas where grid access is limited or unreliable, Polygon Energy provides reliable standalone solar solutions. These systems enable clients to generate and store energy independently, ensuring uninterrupted power supply and energy resilience.

Community-Scale Battery Systems and Microgrids

We specialise in community-scale battery and microgrid solutions, allowing larger communities or industrial hubs to generate, store, and distribute renewable energy. These systems help reduce reliance on the grid, lower energy costs, and enable communities to contribute to grid stability.





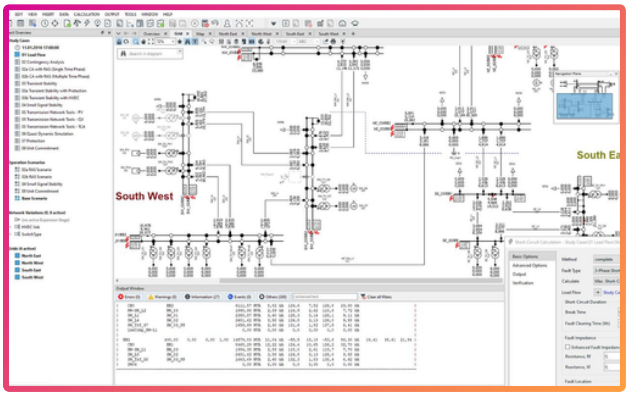
SERVICES

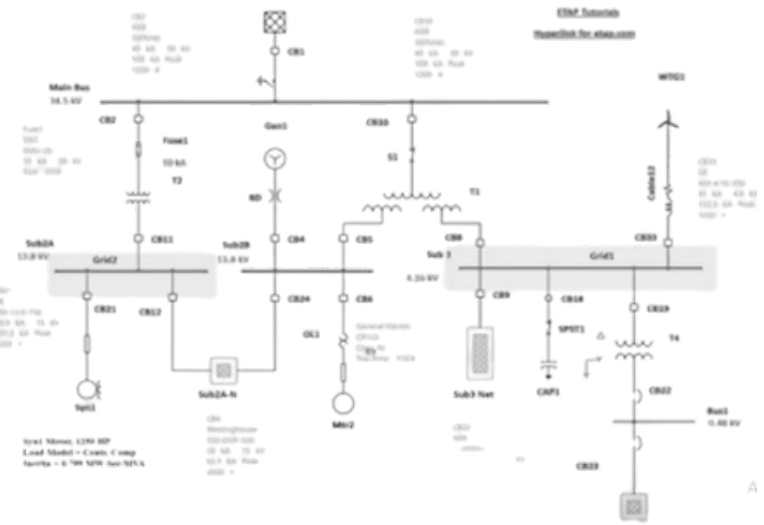
EV Charging Infrastructure (EVSE)

Polygon Energy offers turnkey EV charging solutions, including high-capacity and rapid-charging options suitable for commercial installations. We help businesses adopt sustainable transportation solutions and enhance their facilities to meet the growing demand for electric vehicle charging.

Electrical Power System Studies

We provide comprehensive electrical studies, including AC and protection basis of design, load flow studies, fault studies, and protection coordination. These studies ensure that our clients' power systems are safe, reliable, and optimally configured for their specific requirements.





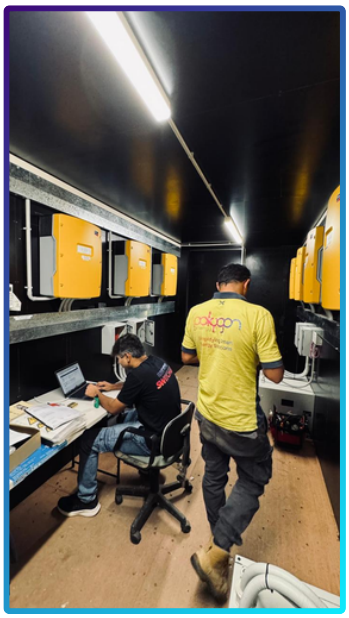
SERVICES

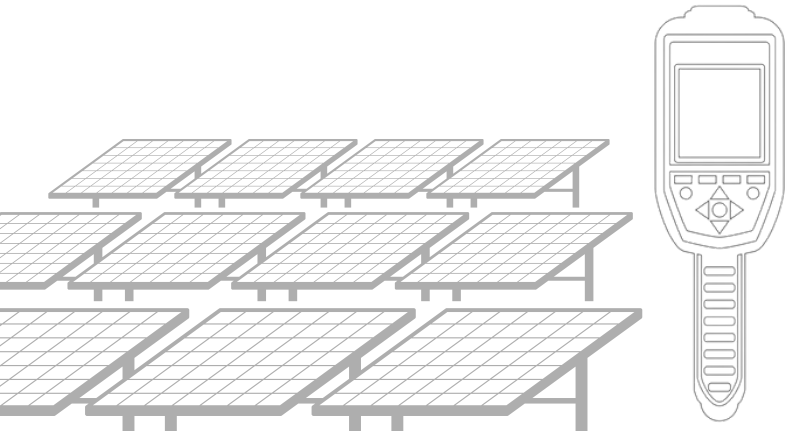
Feasibility Studies

Polygon Energy offers detailed feasibility studies that analyse the economic and technical aspects of potential projects.
Our studies provide clear recommendations, enabling clients to make informed decisions about renewable energy investments.

Maintenance and Monitoring

To ensure long-term performance and reliability, we offer maintenance and monitoring services for all our installations as well as third-party installations.
This includes preventive maintenance, real-time system monitoring, and performance optimisation to maximise energy generation and reduce downtime.





KEY PROJECTS

Solar and Battery Solutions

BAPS Temple, Taylor - ACT

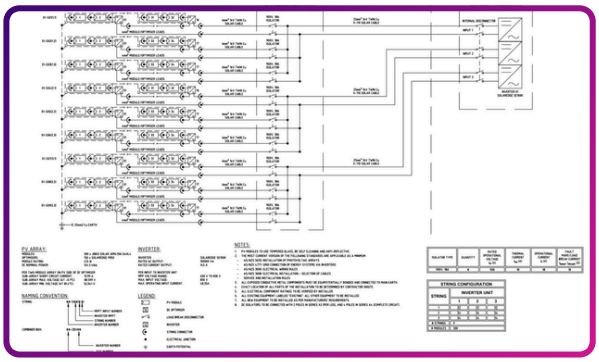
Installed a 100 kW solar array and a 52 kWh battery system to support the temple's energy needs, significantly reducing their reliance on the grid and lowering operational costs.

Evoenergy Gudgenby Cottage Off-Grid System - ACT

This ground-mounted 10 kW solar system with a 50 kWh containerised battery storage solution provides an independent energy source, making remote off-grid operation possible.

Tamworth Waste Transfer Station Off-Grid Systems - NSW

Currently in-progress, this project involves design, supply and installation of eight 6.6 kW off-grid solar systems, each with a 15 kWh battery, for independent energy generation across the waste transfer stations, providing resilience and environmental benefits.



Dicker Data Centre Solar Design - NSW

Delivered a 380 kW solar system design for Dicker Data Centre, maximising solar potential while ensuring safe and efficient integration with the data centre's power infrastructure.

KEY PROJECTS

EV Charging & Renewable Integration for Commercial Facilities

EV Charging Bays for Resort - NSW

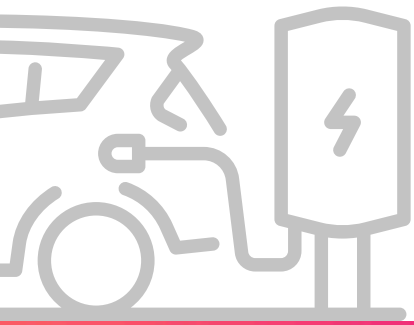
Currently in the design phase, this project involves the supply and installation of six EV charging bays, featuring 360 kW and 180 kW dual-port chargers to meet high demand.

800 kW Solar PV Car Park Installation - NSW

This in-progress project will see the installation of a large-scale solar PV system on a resort's car park roof, providing sustainable energy for both EV charging stations and other resort facilities.

Community-Scale Battery Storage for Resort - NSW

With a planned capacity of 2500 kWh, this battery storage system will store excess solar energy for use during peak times and to participate in grid support services, including FCAS and wholesale market arbitrage.



KEY PROJECTS

Residential-Scale Solar PV & Battery Systems

Villa Rooftop Solar Installations - NSW

Designed to outfit 140 resort villas with 15 kW rooftop solar systems and 10 kWh battery storage, this project is a scalable solution providing renewable energy to each villa.

AWARDS, QUALIFICATIONS & ACCREDITATIONS

NECA Project of the Year Award 2023

Awarded for our innovative solar and battery solution, featuring load control and energy arbitrage capabilities, which optimised energy use and reduced costs.

NETCC Approved Seller

As a NETCC (New Energy Tech Consumer Code) Approved Seller, Polygon Energy is recognised for its commitment to delivering high-quality, reliable renewable energy solutions that meet the highest industry standards.

SAA Accreditation

Polygon Energy holds SAA (Solar Accreditation Australia) Accreditation, which certifies our proficiency in designing and implementing grid-connected, battery storage, and standalone off-grid solar systems.

17 Qualified Electrical Engineers

Our team has over 17 years of experience in electrical network planning, design, construction, and maintenance.

Polygon Energy: Powering your sustainability journey

Why Choose Polygon Energy?

Polygon Energy is your dedicated partner in sustainable energy. Our team has a proven history of delivering high-quality, customised energy solutions that help our clients achieve their energy and environmental goals. We take pride in turning complex challenges into reliable, cost-effective solutions and look forward to helping you navigate the future of renewable energy.

For more information on how we can support your energy needs, please contact us at:

Contact us:

Phone: 02 6130 0808

Email: hello@polygonenergy.com.au

Website: www.polygonenergy.com.au