TECO

together, we empower the Future



TECO EPC PROJECTS IN AUSTRALIA

Longford · Seaspray · Flynn – Gippsland, Victoria

3	16.7 MWp	33 MWh
SOLAR + BESS PLANTS	SOLAR PV	BATTERY STORAGE

TECO Solar Plant & BESS

UTILITY-SCALE ENERGY SHIFTING AND GRID STABILITY FOR DECARBONISATION

Integrated solar PV and Battery Energy Storage System (BESS) solutions for remote mine sites and industrial operations, cutting diesel use, emissions and energy costs.

Designed for harsh environments and complex loads, and delivered by TECO as Engineering, Procurement and Construction (EPC) contractor, from engineering and grid-connection studies through to commissioning and ongoing support.

WHAT WE DELIVER

- DC-coupled PV + BESS for fewer conversion stages and higher round-trip efficiency
- AC-coupled PV + BESS for staged brownfield upgrades
- Hybrid configurations with diesel
- PCS up to 99% efficiency; advanced EMS for real-time dispatch, frequency control, demand response and peak shaving
- Grid-forming or grid-following operation
- Modular, containerised systems; IEC/UL variants and single-line diagrams available

KEY BENEFITS

Lower diesel use and emissions
Offset diesel reliance and meet emissions targets with off-grid or hybrid solar + storage

Stable site power
Mitigates renewable intermittency with frequency regulation, spinning reserve and load balancing

Open integration
Compatible with all major battery chemistries; compliant with Australian, NZ and IEC standards

Scalable
EMS architecture supports multi-site visibility, remote dispatch and future capacity expansion

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TECO EPC PROJECTS IN AUSTRALIA – GIPPSLAND, VICTORIA

TECO is the **EPC contractor** for three DC-coupled solar + BESS plants in Gippsland, totalling **16.7 MWp of solar PV and 33 MWh of battery storage**. Each site combines tracking PV, an 11 MWh LFP BESS and a 4.95 MVA MV power station on the local 22 kV network, delivering energy shifting, FCAS and PV firming.



LONGFORD SOLAR FARM & BESS
Longford, VIC · 4.88 MWp PV + 11 MWh BESS



SEASPRAY SOLAR FARM & BESS
Stradbroke, VIC · 5.49 MWp PV + 11 MWh BESS



FLYNN SOLAR FARM & BESS
Gormandale, VIC · 6.28 MWp PV + 11 MWh BESS

REFERENCE PROJECTS

60 MW / 80 MWh
TPC Longtan BESS
Taoyuan, Taiwan · 2022–2024
Electricity trading, AFC

10 MW / 27 MWh
Pingtung Linbian BESS
Pingtung, Taiwan · 2022–2023
Solar PV + energy storage

2+4 MW / 2+4 MWh
Taoyuan Guanyin AFC BESS
Taoyuan, Taiwan · 2021–2022
Automatic frequency control

4 MW / 4 MWh
Hsinchu AFC BESS
Hsinchu, Taiwan · 2023–2024
Automatic frequency control

2.5 MW / 1 MWh
Yilan AFC BESS
Yilan, Taiwan · 2021
Automatic frequency control

2 MW / 2 MWh
TECO-Westinghouse BESS
New Mexico, USA · 2019–2020
PV capacity firming, power smoothing

2 MWp PV + 2 MWh
Pohnpei Island ground-mounted PV & ESS
Pohnpei, Micronesia · 2019–2020
Solar smoothing, frequency regulation

1.2 MW
ITRI Grid-Connected BESS
Zhangbin, Taiwan · 2019 · supply to commissioning
Active/reactive power, frequency and PF control

250 kW / 750 kWh
Shalun Vanadium Redox Flow BESS
Tainan, Taiwan · 2019–2020
PV smoothing, peak shaving

ENERGY MANAGEMENT SYSTEM (EMS)

- Frequency regulation and FCAS bidding
- Time-shifting and peak lopping
- PV smoothing and curtailment avoidance
- Spinning and supplemental reserve
- Manual or automated dispatch via SCADA, Modbus or IEC 61850

EPC DELIVERY

01 Engineering
Resource assessment, grid-connection studies, mine-load modelling

02 Procurement
Bankable Tier 1 PV, battery and balance-of-plant equipment

03 Construction
Civil, electrical and commissioning by TECO's ISO-certified crews

04 Lifecycle support
Remote monitoring, on-call field service, O&M contracts

COMPLIANCE & SAFETY

AS/NZS 5139 · AS 4777.2 · IEC 62619 · IEC 63056 · NFPA 855 · ISO 45001 construction practices

Talk to our Energy Solutions team

Scan the QR code to get in touch.