



**UPPER
MURRAY
INC.**

The Upper Murray Energy Resilience & Reliability Project

Site energy systems and communications.

Indigo Power

**REGIONAL
DEVELOPMENT VICTORIA**



**DELIVERING FOR
RURAL & REGIONAL
VICTORIA**

Indigo Power is proud to work with Upper Murray Inc and the Victorian Government to build power resilience in our communities.

The project	3
Site locations	4
The sites	5
Acres & Acres Co-Op	6
AGMATE Corryong	6
BankWAW Corryong	7
Colac Colac Caravan Park	7
Community Neighbourhood Youth Space	8
Corryong Ambulance Victoria	8
Corryong CFA	9
Corryong Health	9
Corryong Memorial Hall	10
Corryong Men’s Shed	10
Corryong Pharmacy	11
Corryong Recreation Reserve	11
Corryong Sporting Complex	12
Cudgewa Football and Netball Ground	12
Foodshare Corryong	13
Lucyvale Hall	13
Nariel Valley	14
Thowgla Hall	14
Tintaldra Hall	15
Tintaldra Hotel	15
Tintaldra Recreation Reserve	16
Towong Hall	16
Towong Racecourse	17
Upper Murray Community Garage	17
Walwa Bush Nursing Hospital	18
Walwa Memorial Hall	18

The project

The **Upper Murray Energy Resilience & Reliability Project** addresses the vulnerability and variability of the Upper Murray electricity supply. The need for this work was highlighted by the 2019-20 bushfires where power outages lasted for up to three weeks in many areas of the region.

It strengthens the resilience of each local community to enable future reliance on locally generated renewable energy with protection against power outages and brownouts, reducing operating costs, stabilising the power grid and improving energy efficiency.

The Project involves investment in three key areas: energy nodes; community-scale batteries and; heat pump hot water services.

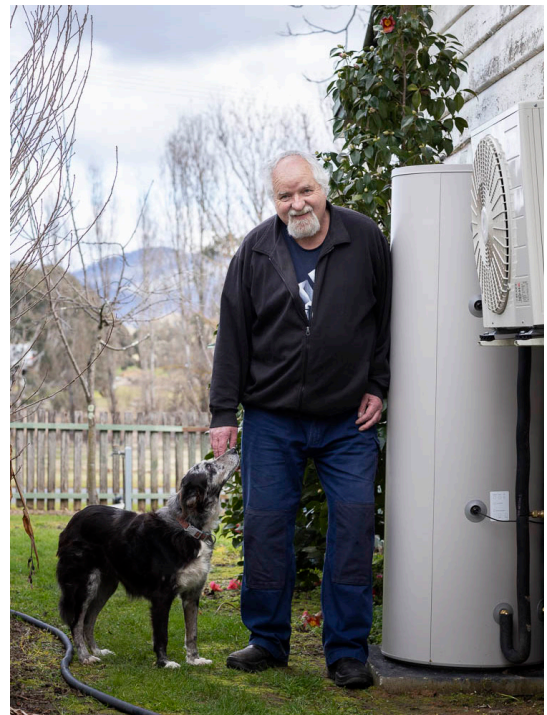
Energy nodes (solar PV systems, battery storage and backup generators) have been installed at key community and critical assets. In times of emergency or blackouts, they will provide backup power for facilities to remain open and allow goods and services to be accessible across the region.

Community-scale batteries stabilise the local power grid and assist in reducing facility operating costs. They are connected to emergency facilities such as community hospitals and emergency relief centres providing community- wide backup power.

The Project also provided a rebate program for energy-efficient heat pump hot water services. Replacing standard electric hot water systems with heat pump technology, which is up to 80% more efficient, helps to relieve pressure on the electricity grid.

This project covered the first two phases of the community-led Upper Murray Placed Based Power Plan. The outcome of these stages is that critical sites have a reliable power supply. A future third phase (outside this project) seeks to establish microgrids in Corryong and other towns to provide reliable power supply across the whole community.

The Upper Murray Energy Resilience & Reliability Project was delivered by Indigo Power and Upper Murray Inc. with funding support from Bushfire Recovery Victoria, Victorian State Government Jobs Precincts and Regions, Upper Murray Inc. and the Australian Federal Government.



Site locations

Acres & Acres Co-Op
 AGMATE Corryong
 BankWAW Corryong
 Colac Colac Caravan Park
 Community Neighbourhood Youth Space
 Corryong Ambulance Victoria
 Corryong CFA
 Corryong Health
 Corryong Memorial Hall
 Corryong Men's Shed
 Corryong Pharmacy
 Corryong Recreation Reserve
 Corryong Sporting Complex
 Cudgewa Football and Netball Ground
 Foodshare Corryong
 Lucyvale Hall
 Nariel Valley
 Thowgla Hall
 Tintaldra Hall
 Tintaldra Hotel
 Tintaldra Recreation Reserve
 Towong Hall
 Towong Racecourse
 Upper Murray Community Garage
 Walwa Bush Nursing Hospital
 Walwa Memorial Hall



Site energy systems and communications summary

Site Name	Solar PV (KWDC)	Battery Storage (KWh)	Back-up Generator	Back-up details	Communication equipment
Acres & Acres Co-Op	6.56	11	×	Light/power - battery	-
AGMATE Corryong	10.66	13.8	✓	Light/power - battery	-
BankWAW Corryong	7.47	13.8	✓	Light/power - battery; whole site back up - generator	-
Colac Colac Caravan Park	17.22	33	×	Light/power - battery (amenities/kitchen)	NBN satellite existing
Community Neighbourhood Youth Centre	5.33	16.5	×	Light/power - battery	-
Corryong Ambulance Victoria	6.64	13.8	✓	Whole site backup - generator	AV UHF/VHF existing
Corryong CFA	6.56	22	✓	Light/power - battery	CFA UHF/VHF
Corryong Health	66	303	✓	Whole site - generator; battery secondary backup	-
Corryong Memorial Hall	20	33.2	×	Whole site backup - generator	UHF/Tablet
Corryong Men's Shed	6.56	11	×	Light/power - battery	-
Corryong Pharmacy	8.61	13.8	×	Light/power - battery	-
Corryong Recreation Reserve	66	303	×	Whole site - battery	UHF
Corryong Sporting Complex	7.38	33	×	Light/power - battery	UHF
Cudgewa Football and Netball Ground	10	-	✓	Whole site backup - generator	UHF/4G booster
Foodshare Corryong	8	13	×	Light/power - battery	UHF
Lucyvale Hall	5	7.68	×	Light/power - battery	4G booster/UHF/ NBN satellite existing
Nariel Valley	12	20	✓*	Light/power - battery	Satellite phone/UHF
Thowgla Hall	6.64	11.4	✓	Light/power - battery; whole site back up - generator	4G booster /UHF/Tablet/ NBN satellite existing
Tintaldra Hall	6.64	13.8	✓	Light/power - battery; whole site back up - generator	4G booster/UHF/Tablet/ Satellite phone/NBN satellite existing
Tintaldra Hotel	-	-	✓	Whole site - generator	-
Tintaldra Recreation Reserve	6.64	-	✓	Back-up generator	-
Towong Hall	6	15	×	Light/power - battery	Changeover/4G booster
Towong Racecourse	-	-	✓	Back-up generator	UHF
Upper Murray Community Garage	12.45	11.04	×	Light/power - battery	Tablet
Walwa Bush Nursing Hospital	-40	282	✓	Whole site - battery primary backup; generator secondary backup	UHF/4G booster
Walwa Memorial Hall	6.4	13	✓	Light/power - battery; whole site - generator	UHF

* = Change Over

Energy System +	Communications
Solar PV (KWDC)	6.56
Battery Storage (KWh)	11
Back-up Generator	-
Back-up details	Light/power - battery
Communication Equipment	-



AGMATE Corryong

Energy System +	Communications
Solar PV (KWDC)	10.66
Battery Storage (KWh)	13.8
Back-up Generator	C/O
Back-up details	Light/power - battery
Communication Equipment	-



Energy System +	Communications
Solar PV (KWDC)	7.47
Battery Storage (KWh)	13.8
Back-up Generator	7
Back-up details	Light/power – battery; whole site back-up generator
Communication Equipment	-



Colac Colac Caravan Park

Energy System +	Communications
Solar PV (KWDC)	17.22
Battery Storage (KWh)	33
Back-up Generator	-
Back-up details	Light/power – battery (Amenties/Kitchen)
Communication Equipment	NBN satellite existing



Energy System +	Communications
Solar PV (KWDC)	5.33
Battery Storage (KWh)	16.5
Back-up Generator	-
Back-up details	Light/power - battery
Communication Equipment	-



Corryong Ambulance Victoria

Energy System +	Communications
Solar PV (KWDC)	6.64
Battery Storage (KWh)	13.8
Back-up Generator	x
Back-up details	Whole site back-up generator
Communication Equipment	AV UHF/VHF existing



Corryong CFA

Energy System +	Communications
Solar PV (KWDC)	6.56
Battery Storage (KWh)	22
Back-up Generator	7
Back-up details	Light/power - battery
Communication Equipment	4G booster /UHF/ NBN satellite existing



Corryong Health

Energy System +	Communications
Solar PV (KWDC)	66
Battery Storage (KWh)	303
Back-up Generator	250
Back-up details	Whole site generator, battery secondary back-up
Communication Equipment	-



Corryong Memorial Hall

Energy System +	Communications
Solar PV (KWDC)	20
Battery Storage (KWh)	33.2
Back-up Generator	x
Back-up details	Whole site back-up generator
Communication Equipment	UHF/Tablet



Corryong Men's Shed

Energy System +	Communications
Solar PV (KWDC)	6.56
Battery Storage (KWh)	11
Back-up Generator	-
Back-up details	Light/power - battery
Communication Equipment	-



Corryong Pharmacy

Energy System +	Communications
Solar PV (KWDC)	8.61
Battery Storage (KWh)	13.8
Back-up Generator	-
Back-up details	Light/power - battery
Communication Equipment	-



Corryong Recreation Reserve

Energy System +	Communications
Solar PV (KWDC)	66
Battery Storage (KWh)	303
Back-up Generator	-
Back-up details	Whole site - battery
Communication Equipment	UHF



Corryong Sporting Complex

Energy System +	Communications
Solar PV (KWDC)	7.38
Battery Storage (KWh)	33
Back-up Generator	-
Back-up details	Light/power - battery
Communication Equipment	UHF



Cudgewa Football and Netball Ground

Energy System +	Communications
Solar PV (KWDC)	10
Battery Storage (KWh)	-
Back-up Generator	22
Back-up details	Whole site back-up generator
Communication Equipment	UHF/4G booster



Foodshare Corryong

Energy System +	Communications
Solar PV (KWDC)	8
Battery Storage (KWh)	13
Back-up Generator	×
Back-up details	Battery / back-up generator
Communication Equipment	UHF



Lucyvale Hall

Energy System +	Communications
Solar PV (KWDC)	5
Battery Storage (KWh)	7.68
Back-up Generator	-
Back-up details	Light/power - battery
Communication Equipment	4G booster /UHF/ tablet/NBN satellite existing



Energy System +	Communications
Solar PV (KWDC)	12
Battery Storage (KWh)	20
Back-up Generator	C/O
Back-up details	Light/power – battery
Communication Equipment	Satellite phone/UHF



Thowgla Hall

Energy System +	Communications
Solar PV (KWDC)	6.64
Battery Storage (KWh)	11.4
Back-up Generator	7
Back-up details	Light/power – battery; whole site back-up generator
Communication Equipment	4G booster /UHF/ tablet/NBN satellite existing



Tintaldra Hall

Energy System +	Communications
Solar PV (KWDC)	6.64
Battery Storage (KWh)	13.8
Back-up Generator	22
Back-up details	Light/power – battery; whole site back-up generator
Communication Equipment	4G Booster/UHF/ tablet/Satellite phone/ NBN satellite existing



Tintaldra Hotel

Energy System +	Communications
Solar PV (KWDC)	-
Battery Storage (KWh)	-
Back-up Generator	22
Back-up details	Whole site generator
Communication Equipment	-



Energy System +	Communications
Solar PV (KWDC)	6.64
Battery Storage (KWh)	-
Back-up Generator	7
Back-up details	Back-up generator
Communication Equipment	-



Towong Hall

Energy System +	Communications
Solar PV (KWDC)	8
Battery Storage (KWh)	15
Back-up Generator	
Back-up details	Battery / changeover
Communication Equipment	Changeover / 4G booster



Towong Racecourse

Energy System +	Communications
Solar PV (KWDC)	-
Battery Storage (KWh)	-
Back-up Generator	13
Back-up details	Back-up generator
Communication Equipment	UHF



Upper Murray Community Garage

Energy System +	Communications
Solar PV (KWDC)	12.45
Battery Storage (KWh)	11.04
Back-up Generator	7
Back-up details	Light/power - battery
Communication Equipment	Tablet



Walwa Bush Nursing Hospital

Energy System +	Communications
Solar PV (KWDC)	-40
Battery Storage (KWh)	282
Back-up Generator	50
Back-up details	Whole site - battery primary back-up; generator secondary back-up
Communication Equipment	UHF/4G booster



Walwa Memorial Hall

Energy System +	Communications
Solar PV (KWDC)	6.4
Battery Storage (KWh)	13
Back-up Generator	20
Back-up details	Light/power - battery; whole site - generator
Communication Equipment	UHF



Indigo Power

Indigo Power is proud to work with Upper Murray Inc and the Victorian Government to build power resilience in our communities.



**UPPER
MURRAY
INC.**



Jobs,
Precincts
and Regions