

100 Neighbourhood Batteries

Queenscliffe Community Update

25/11/2025

Acknowledgement of Country

Mondo acknowledges Aboriginal and Torres Strait Islander people as the Traditional Custodians of the lands on which we live and work. We pay respects to Elders past and present and celebrate their continuing connection to Country.

Agenda

1. Acknowledgement of Country - Phillip
2. Welcome Overview
3. Community and Battery Energy Storage
4. State Funding
5. Community Role
6. Project
7. Community
8. Technical
9. Timeline
10. Q & A

Peter Cook, President



Our community's Neighbourhood Batteries

- How did we get here?
- Connection to Climate Emergency Response Plan – the CERP
- QCAN's role
- Community Emissions Reduction Fund



QCAN
QUEENSLIFFE CLIMATE ACTION NOW

Formed 2019

Climate Emergency Response Plan
(CERP) Development

- leadership

CERP Implementation

- assisting our community

Worked with Council

Ultimate CERP Goal

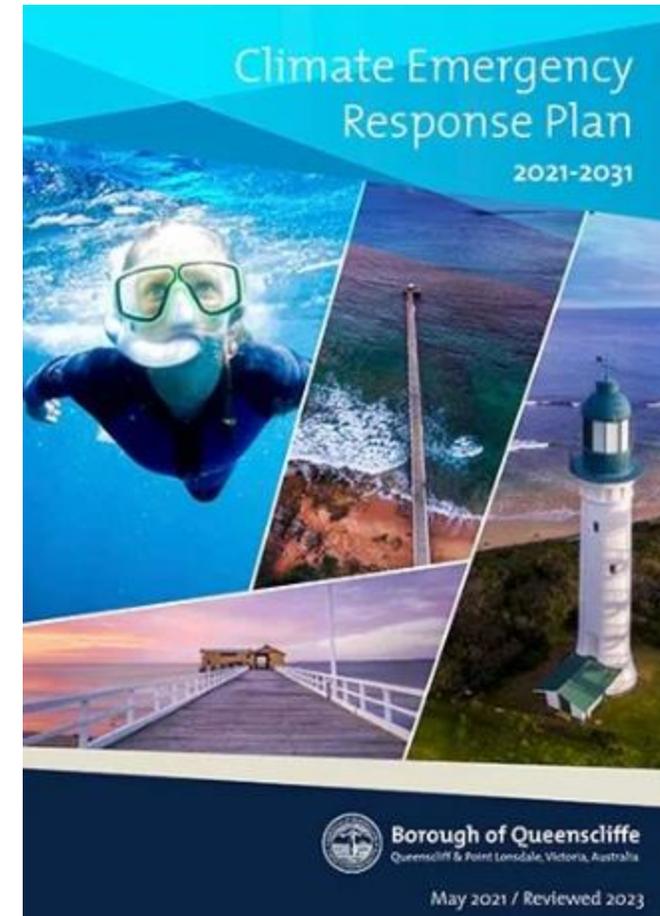
Zero Carbon Community by 2031

Battery Energy Storage Systems (BESS) are now a crucial part of a renewable energy future

Climate Emergency Response Plan (CERP) Pillar 2 – Action 9 – Neighbourhood Battery Trial

- QCAN research since 2020
- Battery Feasibility study
- 2022 State Election campaign - Renewable energy

QCAN
QUEENSLIFFE CLIMATE ACTION NOW



100 Neighbourhood Batteries

- QCAN initiated the funding process
- Identify a lead partner
- Application completed October 2023
- Funding success announced March 2024
- Implementation is ongoing



Yackandandah Neighbourhood Battery

MOU with Mondo agreed in December 2024



The MOU includes detail of the community donation:

1. To be paid annually for 15 years
2. 7% of gross operating revenue
3. Floor price of \$720 pa per battery (x 4)
4. Donated to the Community Emissions Reduction Fund (CERF)
5. Managed by QCAN

Community Emissions Reduction Fund (CERF)



Projects to help reduce emissions.

For instance:

- Professional Energy audits / renewable energy assessments

- Loans to help finance renewable energy projects

- Repaid loans will be added back to the capital base and reloaned, thus multiplying the impact



SOLAR PROGRAM



NEIGHBOURHOOD BATTERY



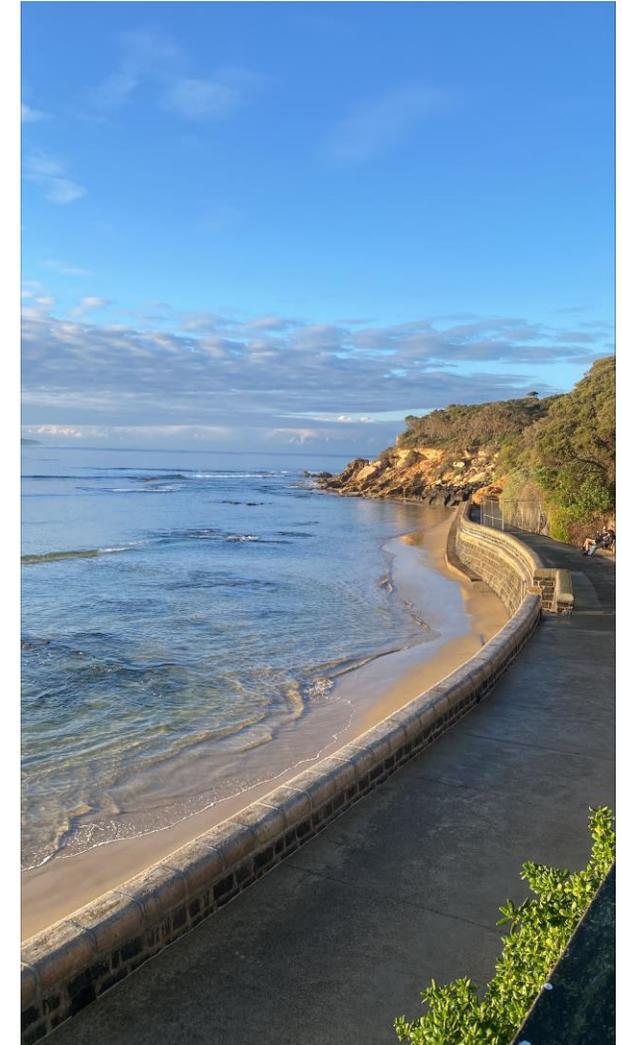
ENERGY EFFICIENT HOMES

Accountability & Transparency

QCAN is:

1. An incorporated association
2. Registered with the Charities Commission (the ACNC)
3. An approved organisation by the ATO to receive tax deductible donations
4. Required to report to the ACNC annually and publicly
5. Required to prepare and publish an annual report

QCAN
QUEENSLIFFE CLIMATE ACTION NOW





- Are the responsible for the installation, operation and monitoring of the batteries
- Will report annually to the community on battery performance and the payment of the community donation
- QCAN is proud of the Neighbourhood Battery Project and would like to thank Mondo for their professionalism and persistence in bringing this project to fruition



Queenscliffe
and Neighbourhood
Storage

Funding Overview



Queenscliffe Neighbourhood Battery Program



Victorian Government Funding:

- Phillip Island - \$2.1M
- Queenscliffe - \$1.2M



Delivery Co-Funded by Mondo:

Installed & Operated by Mondo



Phillip Island: 7 Batteries at 7 Sites

- 5 x 100 kW / 205 kWh
- 2 x 200 kW / 410 kWh

Queenscliff: 4 Batteries at 3 Sites

- 4 x 100 kW / 205 kWh



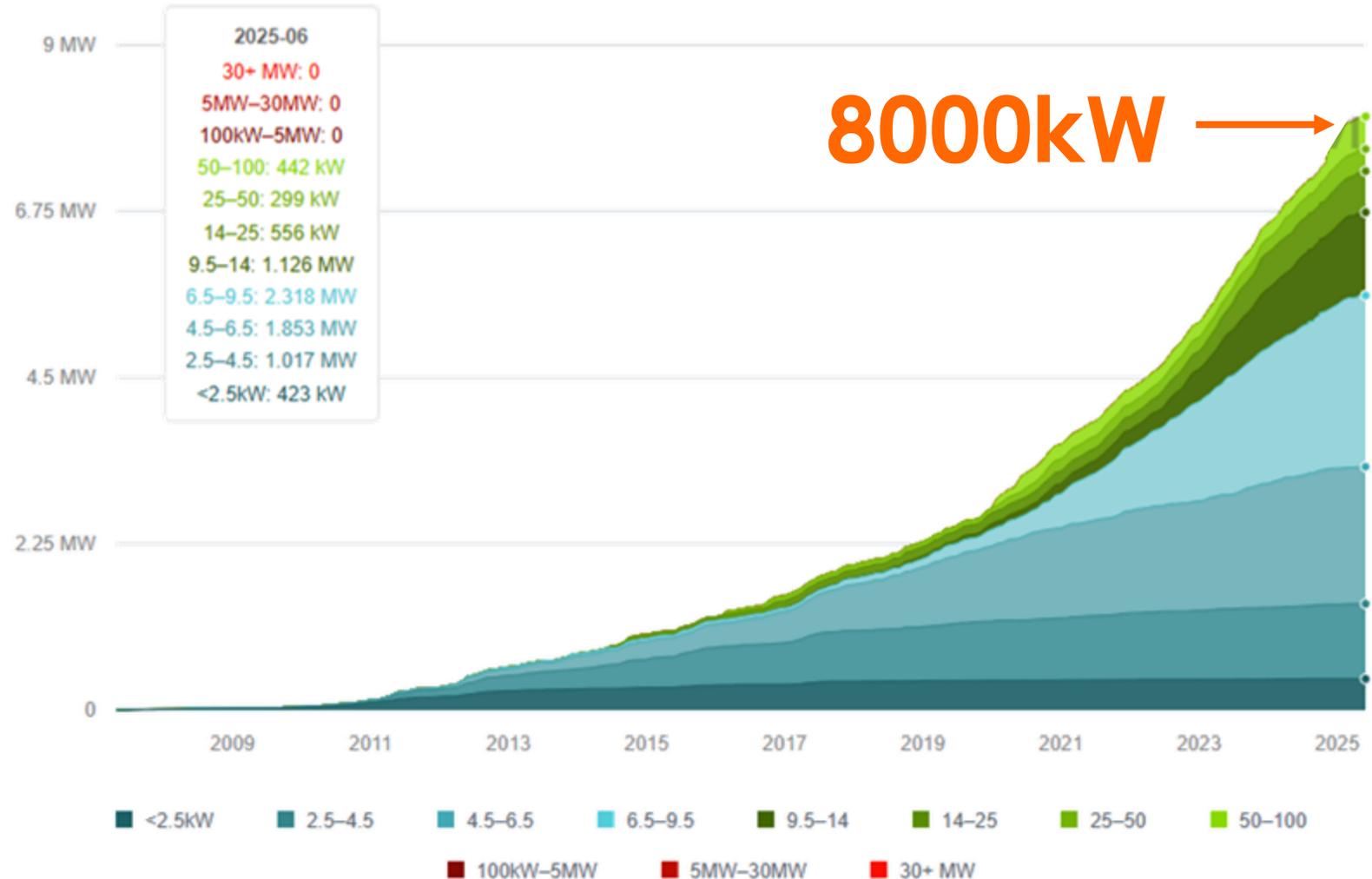
Solar in the Borough



How much solar is in the Borough? Why are Neighbourhood Batteries Needed?

Solar is Increasing in the Borough (3225)

- Approx 100kW added every month
- 1366 solar systems currently
- Approx 32% homes have Solar



Local Grid Benefits

The neighbourhood batteries provide grid and renewable energy support



Supports neighbourhoods during high electricity demand periods



Enables higher penetration of local renewable generation



At the end of the network to help local grid constraints

Not a shared storage solution for residents.
Do not provide backup to residents



Community Benefits

How will these BESS installs help community?

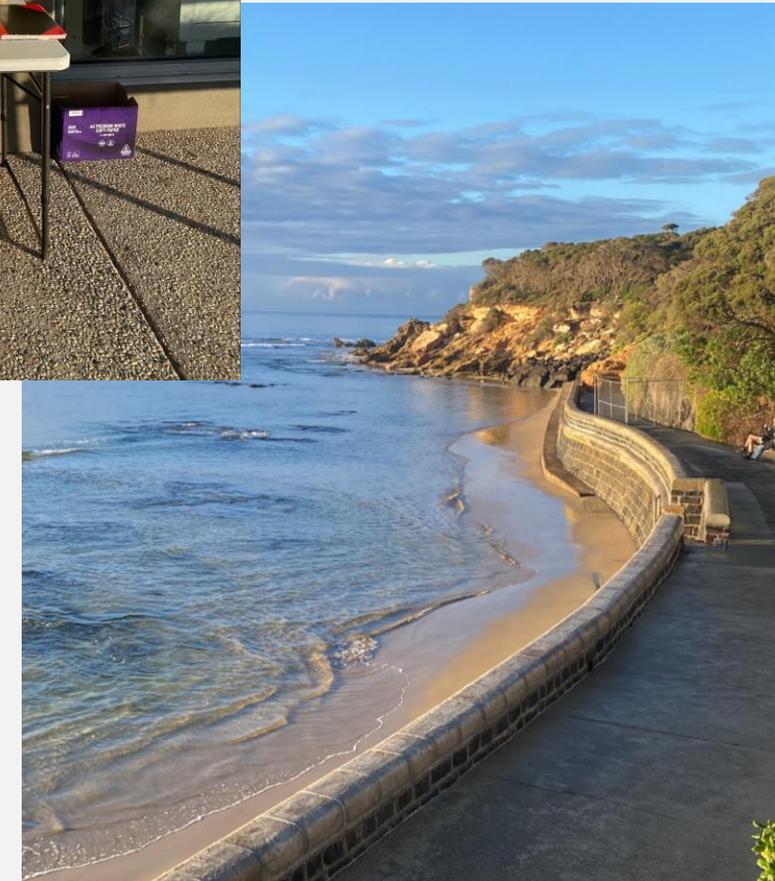
- **Climate action & increasing renewables**
- **Community Donation - 7% of battery revenue** will be donated to community
 - Queenscliffe Climate Action Now
- **No cost** to residents or the Borough
- **Knowledge & capability building**
- **Scaling delivery and financial** models



Engagement Activities

How we have interacted with Queenscliffe

- Feasibility work by QCAN
- Hundreds of conversations & emails
- Three town hall meetings
- Repeated neighbour visits
- Eight drop in sessions
- Project webpages & flyers
- Community meetings / Site meetings
- Contact with
 - State Member
 - Emergency services
 - Councillors
 - Community Associations



Sites, Design, &
Timeline

Site Selection and Studies



Extensive and complex process of selecting a site



Desktop & network scan

- Existing and expected solar
- Benefits to community
- Transformer 'Head-Room'
- Access to suitable network connection point & close to transformer
- Available & suitable land
- Overlays – cultural, MACA, environmental etc.



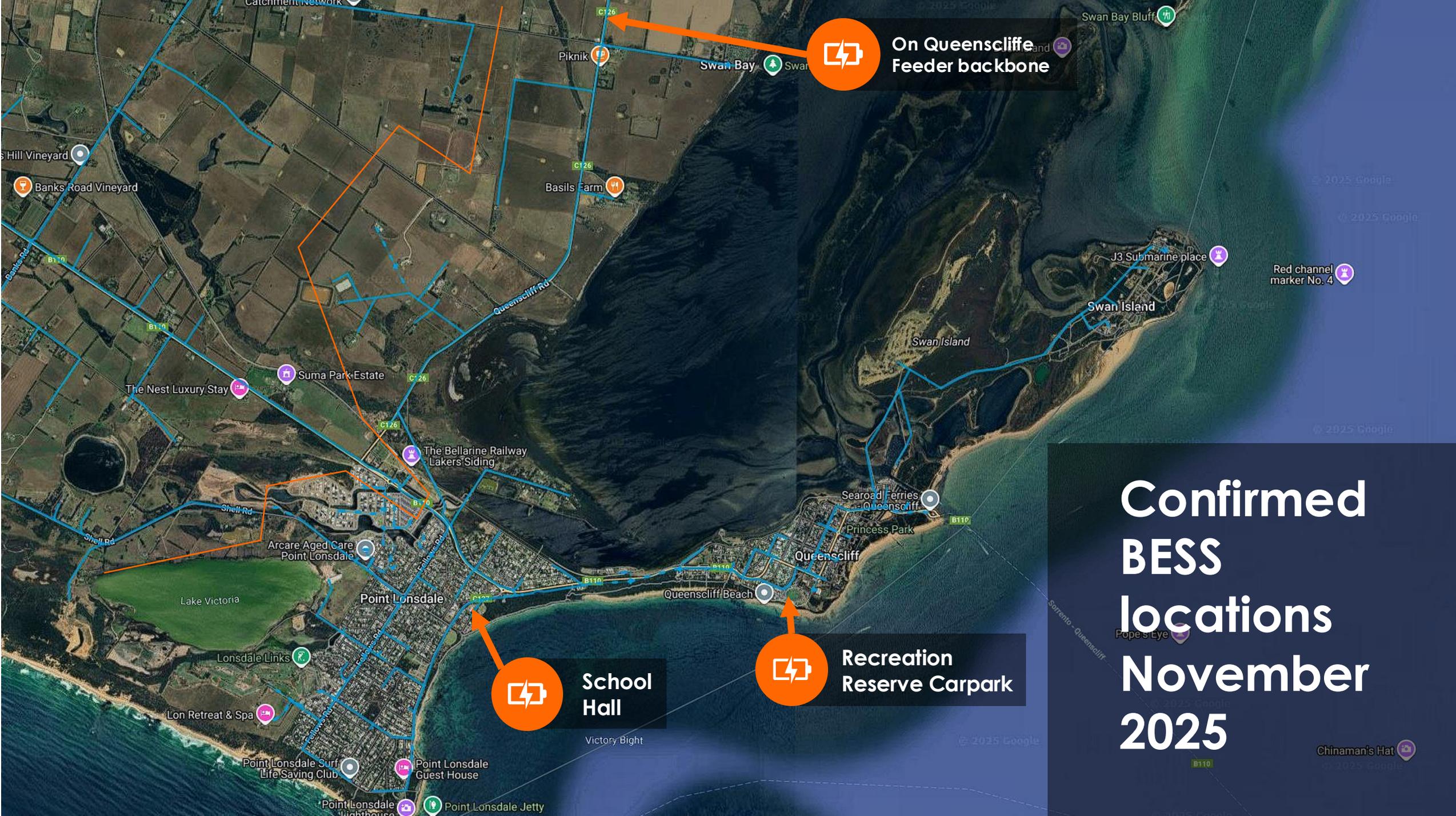
Council & community engagement

- Proximity to Residents
- Neighbour, Community & LGA feedback
- Site visits
- Key stakeholders



Deep review

- Cultural Heritage Assessments
- Ecological Assessment
- Deeper engineering analysis
- Neighbour acceptance
- Site safety assessment
- CFA Assessment & advice
- Connection (Powecor) Applications



On Queenscliffe Feeder backbone



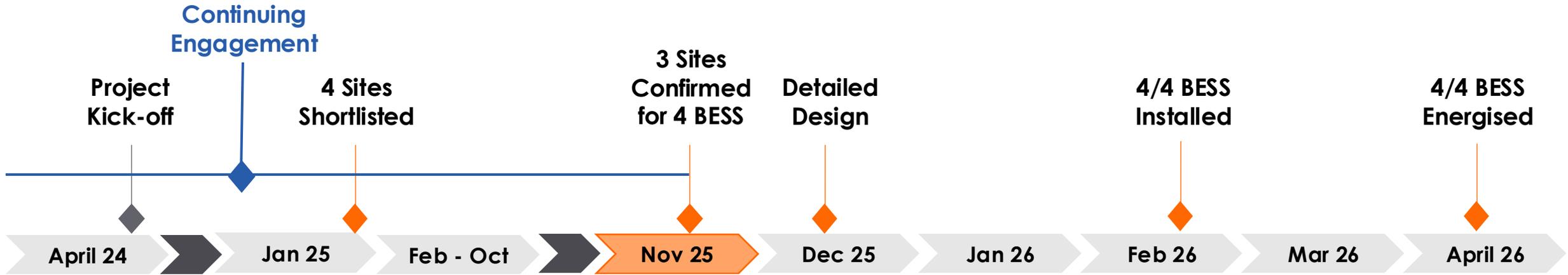
School Hall



Recreation Reserve Carpark

Confirmed BESS locations November 2025

Project Timelines



Artist's impression of the Point Lonsdale Primary BESS



Artist's impression of the Recreation Reserve BESS



Single and Double BESS



Flexibility to deploy targeted to local conditions



Images of same technology at Phillip Island

BESS Technology



Mondo selected EVO Power's Flex Series BESS for the Project

- **100 kW / 205 kWh** Utility Grade BESS
- Lithium Iron Phosphate (**LFP modularized solution**) with more stable battery chemistry
- Internal BESS protections for:
 - Heat Detector,
 - Smoke Detector,
 - Gas Detector and
 - Pre-Charged Fire Suppressant Canister
- Expected operational life of **10-15 years**, BESS expected to be 165 kWh or 80% Health @ 10 years
- **Local Assembly** – Bayswater, VIC



Fire Safety

CFA & Emergency management

- CFA specialist Risk & Fire Safety Unit endorsement
- Engagement with CFA District commanders
- Engagement with emergency response committee
- Engagement with local CFA captain
- Integration with site host emergency plans
- Information on BESS fleet to feed into CFA's 'Pre-Incident Plan' & site visits



Summary of Key Facts

What do these BESS do and not do

- **Improves the capacity of the local grid for solar & peak loads**
- **Designed to be at the end of the network**
– to help *local* grid constraints
- **Not a backup solution** – will shut down with a grid outage
- **Share donation** for the development of renewable energy projects
- **No need to subscribe/opt in** for residents
- **No costs to residents or the Borough**



More Information



Mondo, QCAN, DEECA



Mondo

- community@mondo.com.au
- <https://www.mondo.com.au/projects/queenscliffe>

QCAN

- <https://www.queenscliffeclimateaction.org/contact>

DEECA

- <https://www.energy.vic.gov.au/grants/neighbourhood-batteries>