

Community batteries

New technologies open doors to electrifying opportunity. A battery installed on your street can do many things like:

- Power your community during outages and emergencies;
- Help share solar energy among neighbours;
- Connect electric vehicle fast chargers;
- Make the grid more stable; and
- Increase capacity for other climate friendly devices.

Community batteries should be designed to meet the aspirations of the neighbourhoods they will serve. Those involved require access to information, support, services and energy markets for community batteries to succeed.



www.abc.net.au/news/science/2022-04-05/

TasNetworks is seeking to pilot community batteries in Tasmania to experience their benefits and help shape the long term vision together. It's a complicated topic and we are seeking community organisations that are willing to put the time into developing great concepts with us. Please tell us who you'd like to see involved!

Email responses to FutureNetworksTeam@tasnetworks.com.au

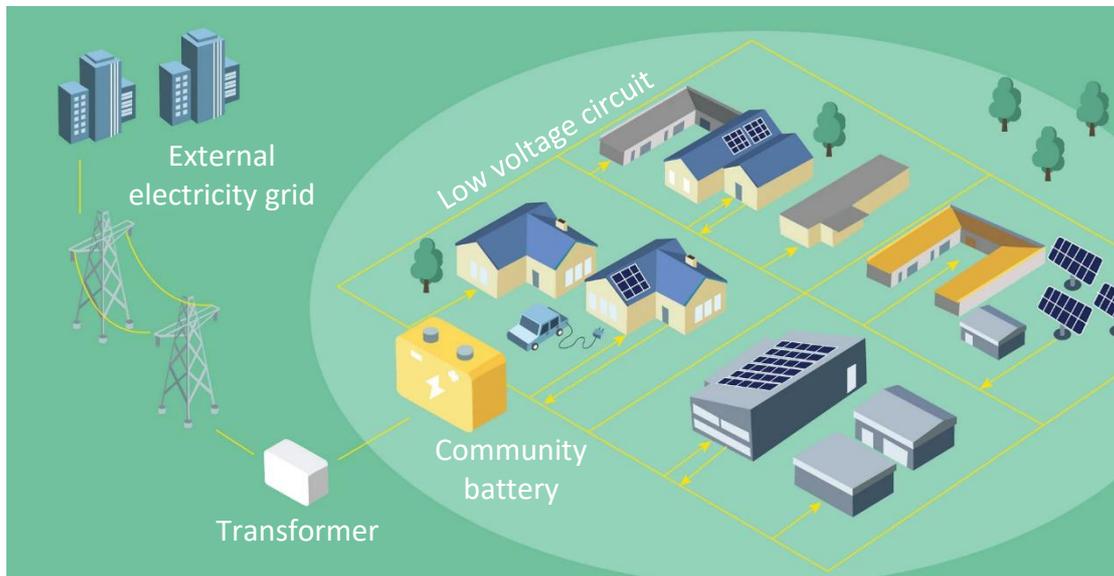
What is a battery?

Battery energy storage systems (BESS) are becoming increasingly important to the grid. They consist of four major components regardless of their size:

- The batteries themselves, typically a large number of lithium-ion battery cells arranged into one or more battery banks;
- Inverters that convert battery direct current (DC) into grid alternating current (AC). Inverters are highly adaptable and offer many innovative grid functions;
- Connection equipment like transformers and switchgear; and
- A control system that operates the system in the desired way.

What is a community battery?

Community batteries are placed in neighbourhoods to provide services to the customers that share a low voltage circuit, often around 20-100 households each.



www.enovaenergy.com.au/microgrids (modified)

Community batteries work best when receiving income from a range of sources, such as trading within the National Electricity Market (NEM). TasNetworks is establishing a Distribution System Operator (DSO) that may add further battery income potential. The combination of battery functions appropriate for Tasmania's diverse communities is currently an open question. Please tell us who you'd like to see involved!

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