



Microgrid energy storage victoria

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Watch the Euroa microgrid demonstration community members video. ... Close ...

The program will bring solar power, batteries, diesel generators, advanced ...

Australian electricity gen-tailer EnergyAustralia is exploring the benefits of microgrid technology, teaming with property developer Villawood Properties to establish a solar PV-powered microgrid community in Melbourne's north that could see residents reduce their power bills by more than 50%.

The Solstice precinct microgrid will include rooftop arrays on 36 townhouses.

EnergyAustralia has revealed plans to develop a 210 kW rooftop solar PV project coupled with a centralised 100 kW/270 kWh battery energy storage system as part of the Rathdowne residential housing estate being developed by Villawood Properties in the Melbourne suburb of Wollert.

The Solstice precinct will form part of the 1,100-home Rathdowne estate. It will comprise 36 townhouses and a large residents' club which will store and share power generated by solar PV systems installed on their rooftops.

The solar PV infrastructure will be supported by a 100 kW/ 270 kWh battery energy storage system (BESS) located at the residents' club.

EnergyAustralia said the solar+storage system will be managed by an intelligent microgrid platform that controls the energy flow across the precinct. Any excess renewable energy generated within the microgrid that is not consumed by the townhouses will be fed back into the National Electricity Market (NEM).

Villawood Properties executive director Rory Costelloe said the microgrid, which has been endorsed by the Victorian government's Department of Environment, Land, Water and Planning, has the potential to cut annual power bills in half.

The savings estimates are based on a Solstice townhouse fitted with a 4 kW solar PV system generating 5.3 MWh of renewable energy each year coupled with battery storage, compared to a typical three-bedroom townhouse without solar consuming 6 MWh per annum.

"The microgrid, combining individual solar PV systems and a centralised battery together with smart home capabilities, is a game-changer that will help residents use energy much more efficiently and lower their bills by up to 50%," Costelloe said.



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EnergyAustralia chief customer officer Mark Brownfield said the project could provide a blueprint for low-cost, sustainable, residential energy.

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