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Tasmania's energy advantage can support national transformation

New analysis shows how Tasmania can play a key role in supporting energy security and stability during the transformation of Australia's electricity system.

The final report of the *Electricity Network Transformation Roadmap* released today by Energy Networks Australia and CSIRO includes new state by state analysis.

Energy Networks Australia CEO, John Bradley, said Tasmania's hydro generation capacity could support grid stability in the broader National Energy Market into the future.

"The analysis by CSIRO indicates that there will be geographic differences in renewable energy output between and within States," Mr Bradley said.

"So interconnection with Tasmania's sources of synchronous hydro-generation could help to manage the broader ups and downs of variable wind and solar generation.

"An expansion of pumped hydro capacity, such as the 2500MW project to be evaluated by Hydro Tasmania, would require significant strengthening of interconnection to support eastern Australian energy security."

CSIRO Chief Economist Energy, Paul Graham, said residential battery storage would play a small but significant role in supporting the energy transformation in Tasmania.

"Our analysis shows more than 1,000 MWh onsite battery capacity could be installed in Tasmania by 2030 and over 2,000 MWh by 2050," Mr Graham said.

The Electricity Network Transformation Roadmap is an evidence-based plan detailing what needs to be done during the next decade to provide Australians with secure and affordable energy and to decarbonise electricity by 2050.

Mr Bradley said that with the right policy settings and a national transition plan, Australia's electricity system could achieve zero carbon emissions by 2050.

The Roadmap finds it critical to move to fair and efficient network charges for residential and small customers before 2021.

"Tariff reform would ensure a medium size family who can't take up solar and storage is \$350 per year better off in 2027," Mr Bradley said.

"The Roadmap is an energy transition plan to save the average Australian household \$414 per year in their electricity bills by 2050."

"Work will start in the coming months on the Roadmap's highest priority projects but real action is needed by government as well as industry.

"A national approach to carbon and energy policy will support commercial investment to keep the lights on and bills affordable now and in the future."

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The Electricity Network Transformation Roadmap Final Report is available [here](#).

2017-27

Regional Analysis Snapshot

	Projected renewable generation mix by state (%)			Greenhouse gas emissions reduction (%)			Installation of rooftop solar by state (GW)			Installation of onsite-battery storage by state (GWh)		
	2017	2030	2050	2017	2030	2050	2017	2030	2050	2017	2030	2050
NSW	14	28	100	8	39	100	2	11	22	<0.5	6	24
VIC	16	40	100	24	54	100	1	6	17	<0.5	6	22
QLD	8	12	100	0	21	100	2	12	26	<0.5	10	30
SA	44	55	100	11	42	100	1	4	7	<0.5	4	9
WA	19	44	100	14	33	100	1	3	6	<0.5	2	7
TAS	86	84	100	20	20	100	0	1	2	<0.5	1	2

Figure 29: Projected renewable generation as a share of state generation under *the Roadmap* scenario.

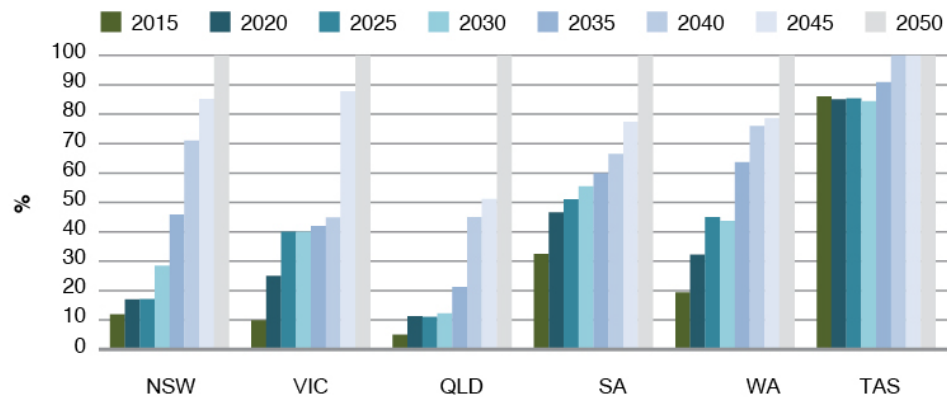


Figure 34: Projected installations of rooftop solar by state.

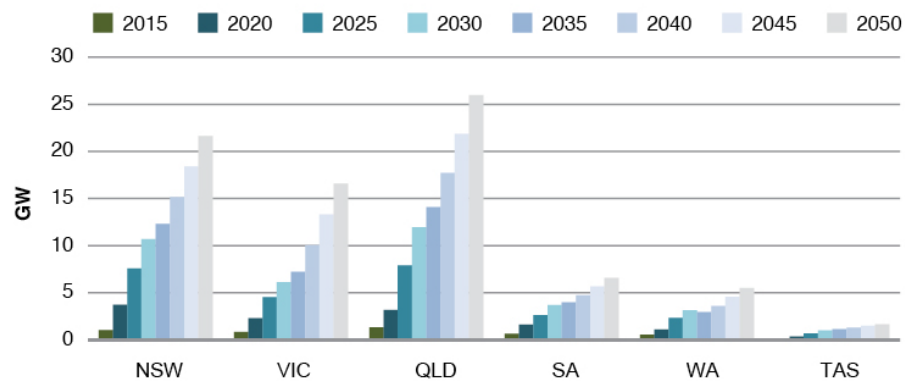
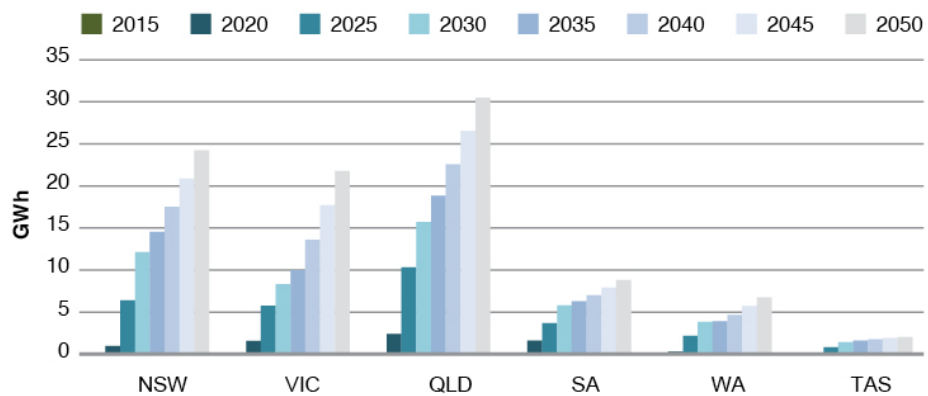


Figure 35: Projected installations of on-site battery storage by state



About the Electricity Network Transformation Roadmap

Australia's national science agency CSIRO and the peak national body representing gas distribution and electricity transmission and distribution businesses in Australia, Energy Networks Australia have partnered to develop an Electricity Network Transformation Roadmap (the Roadmap).

Energy Networks Australia has developed an action plan to achieve the Roadmap's 45 milestones. Networks are currently working on project plans for 11 flagship programs. Work will start on the highest priority projects in the coming months.

The final report is the product of more than two years of collaborative work carried out by Energy Networks Australia and CSIRO. More than 200 different industry representatives contributed at over 14 workshops and webinars held as part of the public consultation process. Information on the Roadmap has been viewed more than 30,000 times during the development process.

For more information go to www.energynetworks.com.au/roadmap