



OpenNEM

An open platform for National Electricity Market data

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Energy Consumers Australia
Board Stakeholder Forum

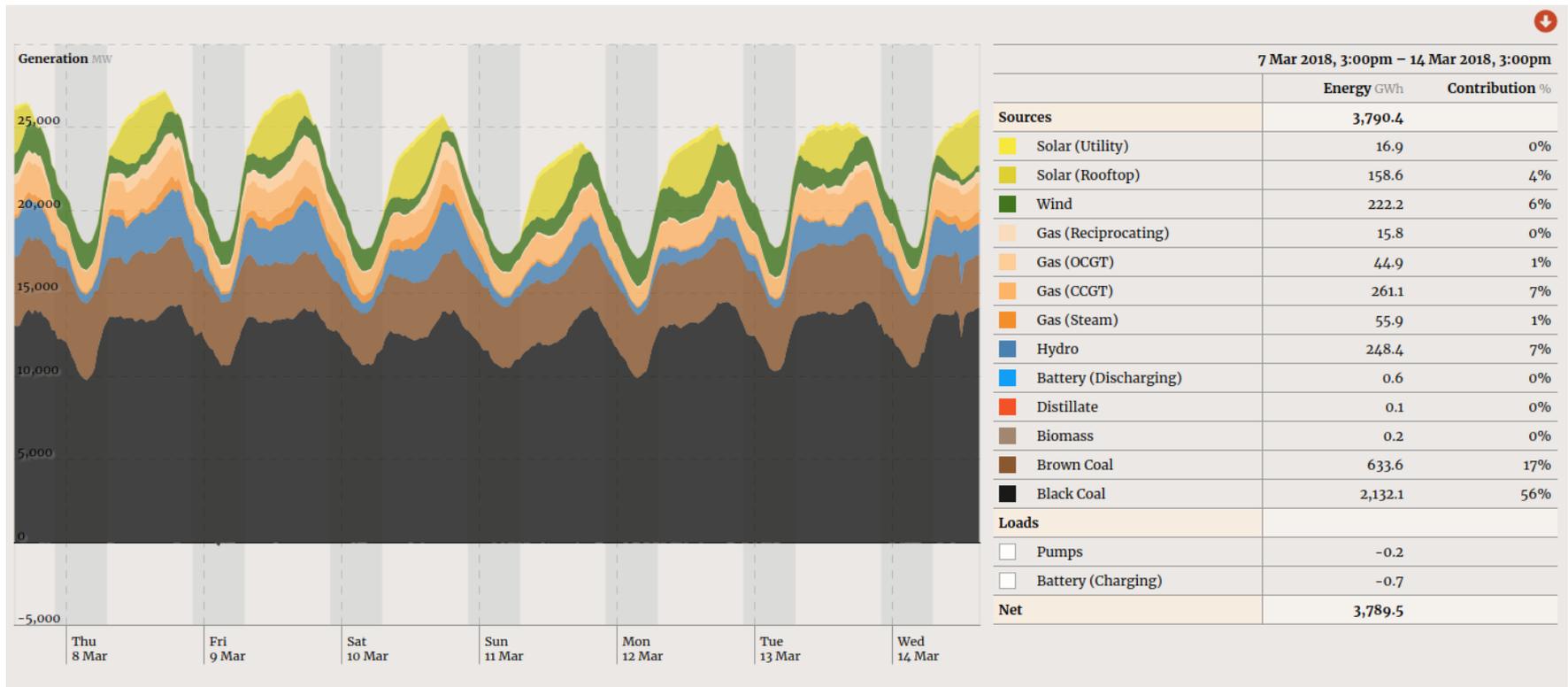
The importance of open data and software

- Energy models and data are an important basis for energy policy.
- Opening energy models and data benefits actors inside and outside of academia.
- Reasons include higher quality science, greater productivity and recognition.
- Private barriers must be overcome, but the private and public gains outweigh them.

Objectives of the openNEM project

- The OpenNEM project aims to make the wealth of public National Electricity Market (NEM) data more accessible to a wider audience.
- By providing a clear window on the data, we hope to address the information asymmetry between stakeholders and improve the productivity of those engaged in energy market discussions.
- In particular, we are keen to empower organisations advocating for reform or researching issues in the National Electricity Market (NEM) that have significant implications for consumers.
- Ultimately we hope that improved access will facilitate better public understanding of the market, improve energy literacy and help facilitate a more informed national discussion on Australia's energy transition in the long term interests of consumers.

Progress to date: openNEM^{alpha}



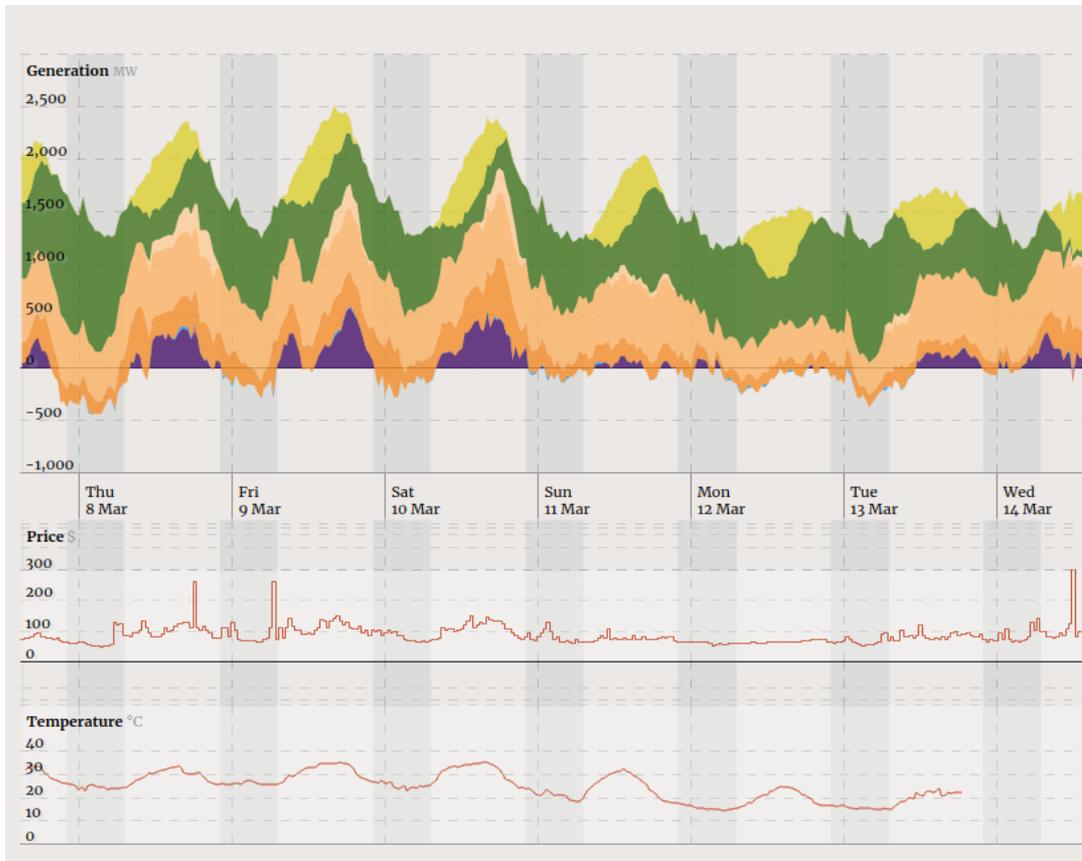
<http://opennem.org.au/>

Progress to date: openNEM^{alpha}



<http://opennem.org.au/#/regions/nsw>

Progress to date: openNEM^{alpha}

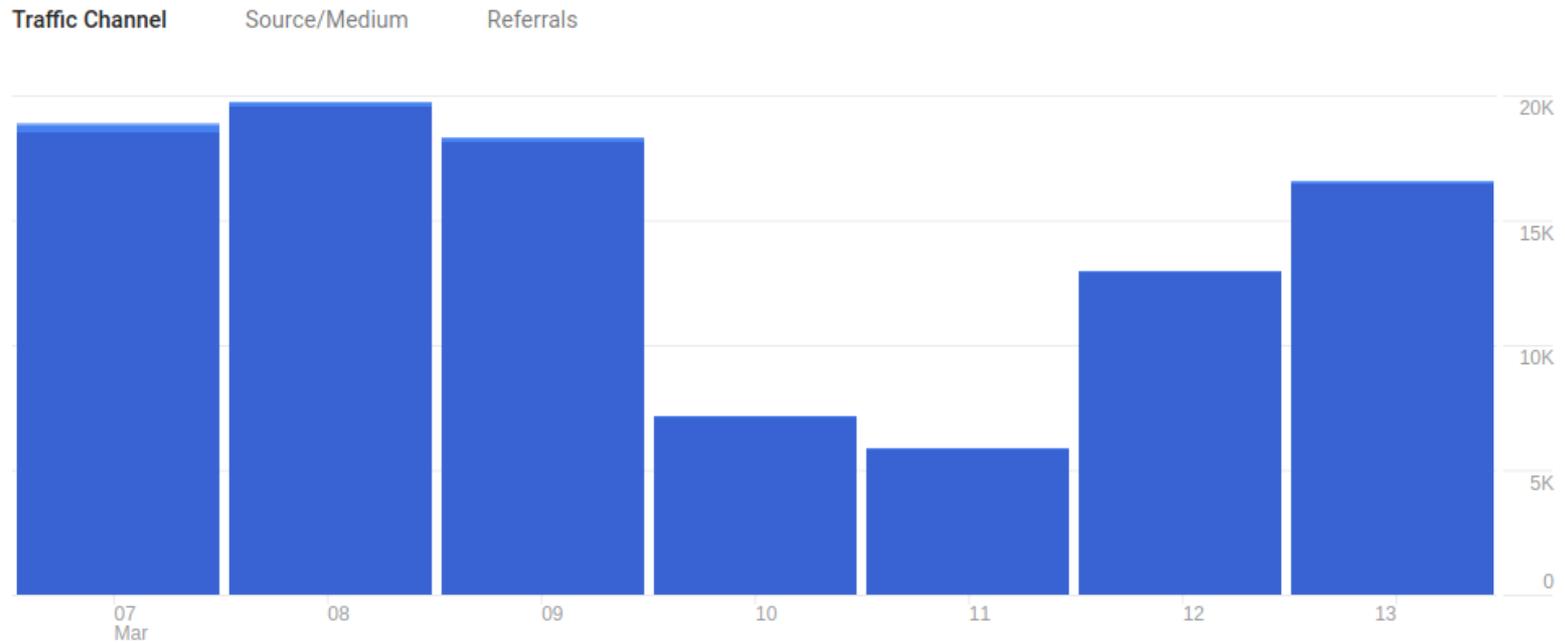


7 Mar 2018, 3:00pm – 14 Mar 2018, 3:00pm

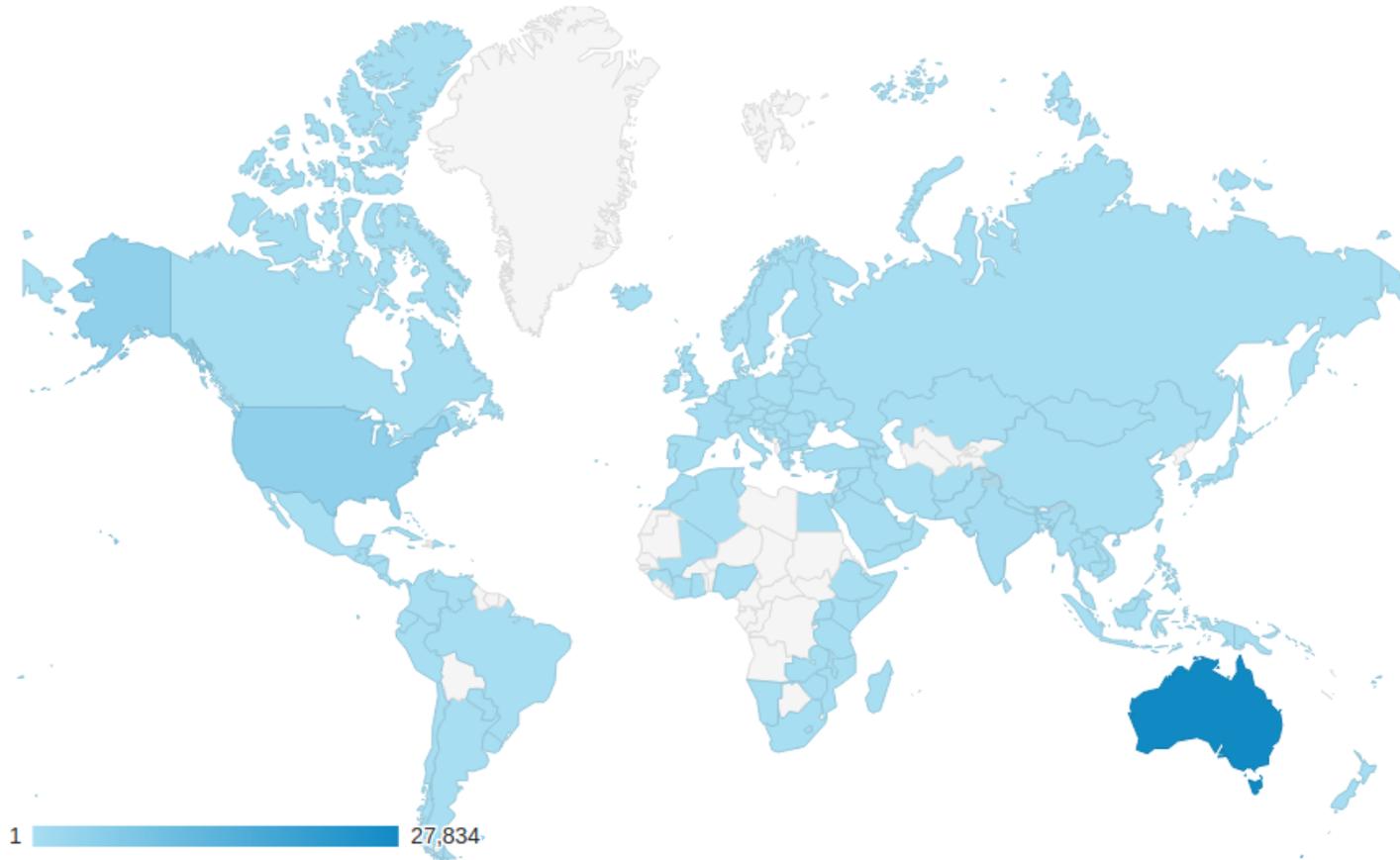
	Energy GWh	Contribution %	Av. Value \$/MWh
Sources	285.9		\$89.36
Solar (Rooftop)	28.4	10%	\$96.84
Wind	109.2	38%	\$80.55
Gas (OCGT)	5.6	2%	\$110.24
Gas (CCGT)	91.5	32%	\$88.86
Gas (Steam)	35.6	12%	\$94.80
Battery (Discharging)	0.6	0%	\$107.13
Distillate	0.1	0%	\$294.05
Imports	14.9	5%	\$107.42
Loads			
Battery (Charging)	-0.7		\$73.92
Exports	-11.4		\$73.31
Net	273.8		

<http://opennem.org.au/#/regions/sa>

Progress to date: Statistics



Progress to date: Statistics



Who is using it now?

- Not exactly sure!
- Do know that researchers at:
 - University of NSW
 - University of Tasmania
 - Australian National University
 - (Melbourne University)
 - Grattan Institute
- Probably others!
- Still a work in progress
 - Get in contact if you're keen to hear more: dylan.mcconnell@unimelb.edu.au
 - (And feel free to make suggestions, comments, and requests!)

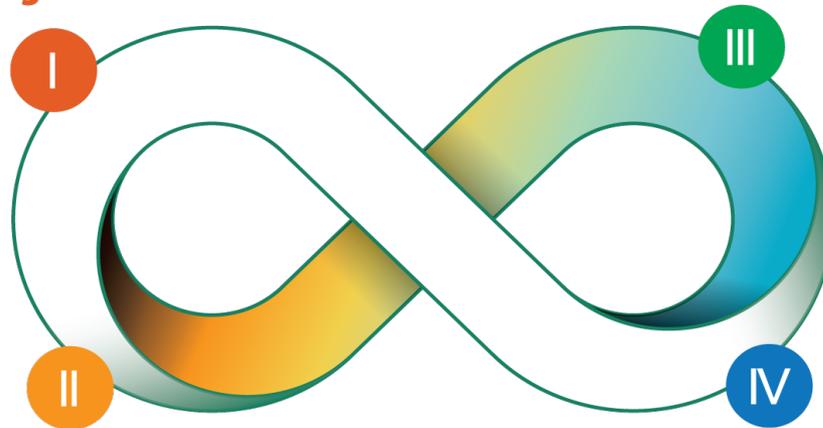


The Australia-Germany Energy Transition Hub

A research collaboration lead by the University of Melbourne, ANU, the Potsdam Institute of Climate Impacts, MCC Mercador & Münster University

**Meeting the market design
and socio-economic
challenges**

**Making negative
emissions work**



**Meeting the
technical challenges**

**Creating
industrial
and export
opportunities**



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Supporting decision-making that enables a zero-carbon future as an economic opportunity

- Applied research
- Engagement with governments
- Collaborations with industry
- Bilateral exchange and learning
- Australian lead organisations: Uni of Melbourne and ANU

www.energy-transition-hub.org