# **2016 National Electricity Forecasting Report**

The 2016 National Electricity Report (NEFR) provides independent electricity consumption and maximum and minimum demand forecasts for each region in the National Electricity Market (NEM) over a 20-year outlook period from 2015–16 to 2035–36. The effects of energy technology advancements and changing consumer behaviour on energy usage and demand for grid-supplied electricity become clearer as we move through the electricity supply chain. ....



### ABOUT AEMO

This infographic has been developed by the independent Australian Energy Market Operator (AEMO), using information from the 2016 National Electricity Forecasting Report AEMO plans, develops, and operates markets that are responsive to energy sector needs and support investment for the long-term benefit of Australian consumers. © 2016. The material in this publication may be used in accordance with the copyright permissions on AEMO's website.





Australian households are using more electric appliances than ever, and this is forecast to continue growing.



Increasing energy efficiency of household appliances is forecast to offset increasing use of electric appliances, flattening the resultant consumption of electricity from the grid.



The outlook for grid-supplied electricity is further flattened by strong growth in rooftop PV, which is forecast to increase by 350% from current levels by 2035–36, equivalent to 11% of current grid-supplied electricity use.

## **ELECTRICITY CONSUMPTION FORECASTS BY SECTOR**

Manufacturing

~6.4%

Consumption from the grid from the manufacturing sector is forecast to increase 6.4% over the 20-year forecast period from ~50,684 GWh to ~53,944 GWh.

### Other business sectors\*



Consumption from the grid from other business sectors (including coal) is forecast to increase ~10.9% over the 20-year forecast period from ~85,911 GWh to ~95,313 GWh.

\*This includes industrial and commercial users, including coal mining, LNG, the services sector, and food and beverage manufacturing

Over the 20-year outlook, annual improvements in energy efficiency (0.69% of total NEM operational consumption), plus increasing installations of rooftop PV each year (0.51% of total NEM operational consumption), are offsetting the effect of population growth on electricity consumption.

# ~27,082 GWh

Energy efficiency savings are projected to total ~27,082 GWh by the end of the 20-year forecast period reducing forecast total electricity consumption by 14.8%.

