Improving visibility of sectoral consumption

Linking ANZSIC industry codes to AEMO MSATS data

Why is understanding sectoral consumption important?

The AES webpage from which Table F can be downloaded

Table F of the Australian Energy Statistics (AES) contains sectoral energy consumption.

The Australian Government uses Table F for energy and carbon emissions policy evaluation and development.

Currently AEMO also use Table F:

- As an input to component forecasting (energy efficiency, economics forecast and multisector)
- As a validation for business consumption forecasts

It's anticipated that improving the estimates of sectoral use will provide insights and validations, that will support AEMO's consumption forecasts accuracy. This project's outputs will support the future improvement of Table F by the Department of Industry, Science, Energy and Resources (DISER).

The project delivers an AEMO forecasting improvement priority

Business results – encouraging initial match between business division proportions

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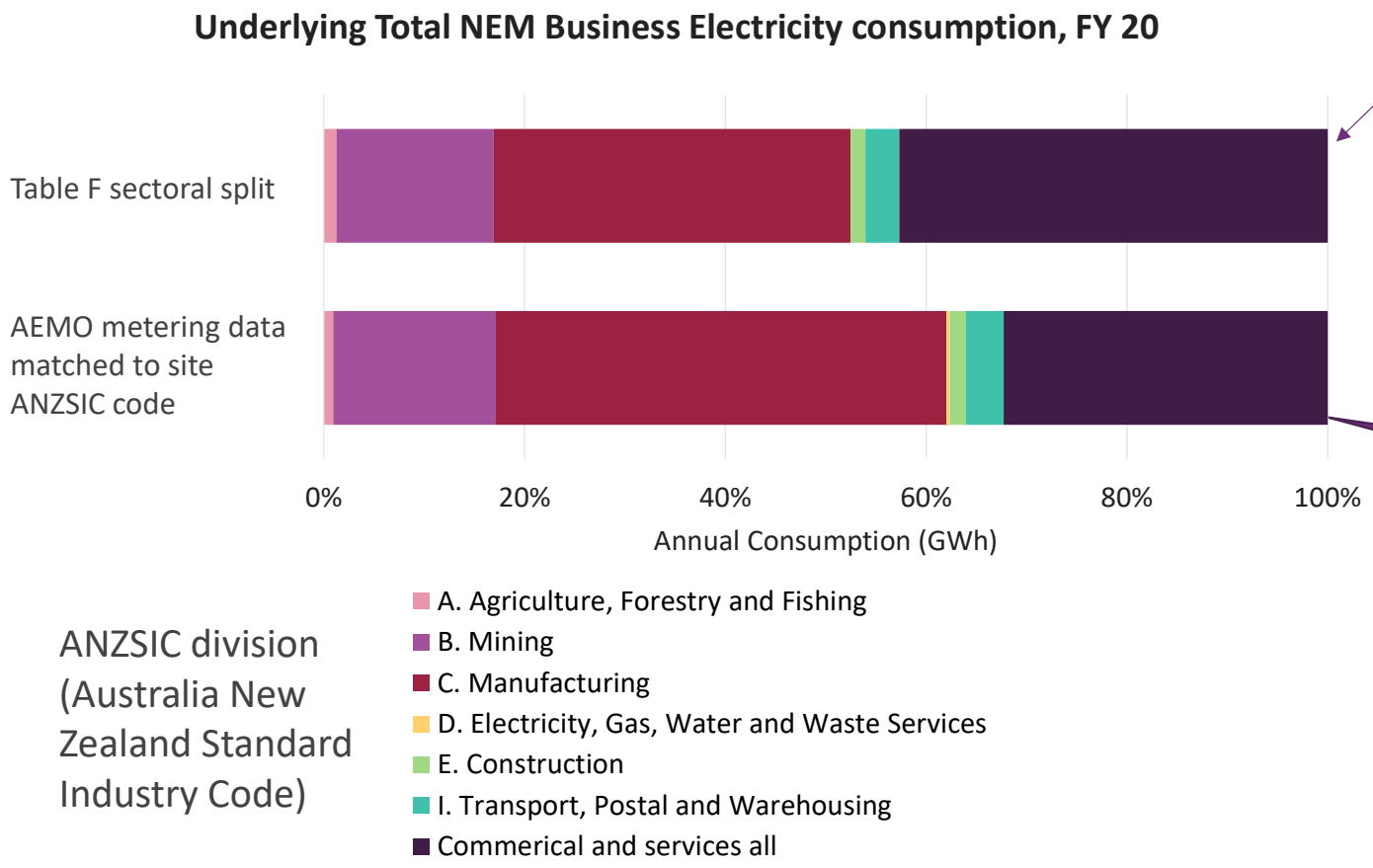

NB: Many divisions are summarised as commercial for presentation purposes

NB: each series is shown as a stacked graph of its own absolute total. The absolute total of AEMO's NMI matching currently equals 77% of the Table F figure.

The site level classification supports the ability to:

- drill down into further levels of industry detail (e.g. data centres)
- conduct more detailed studies, such as: using absolute figures and growth rates to enhance forecasting, and estimating the load profile of industry sectors

NB: both Division D results above exclude electricity supply, to avoid double counting with AEMO's supply figures

Sectoral composition varies between regions

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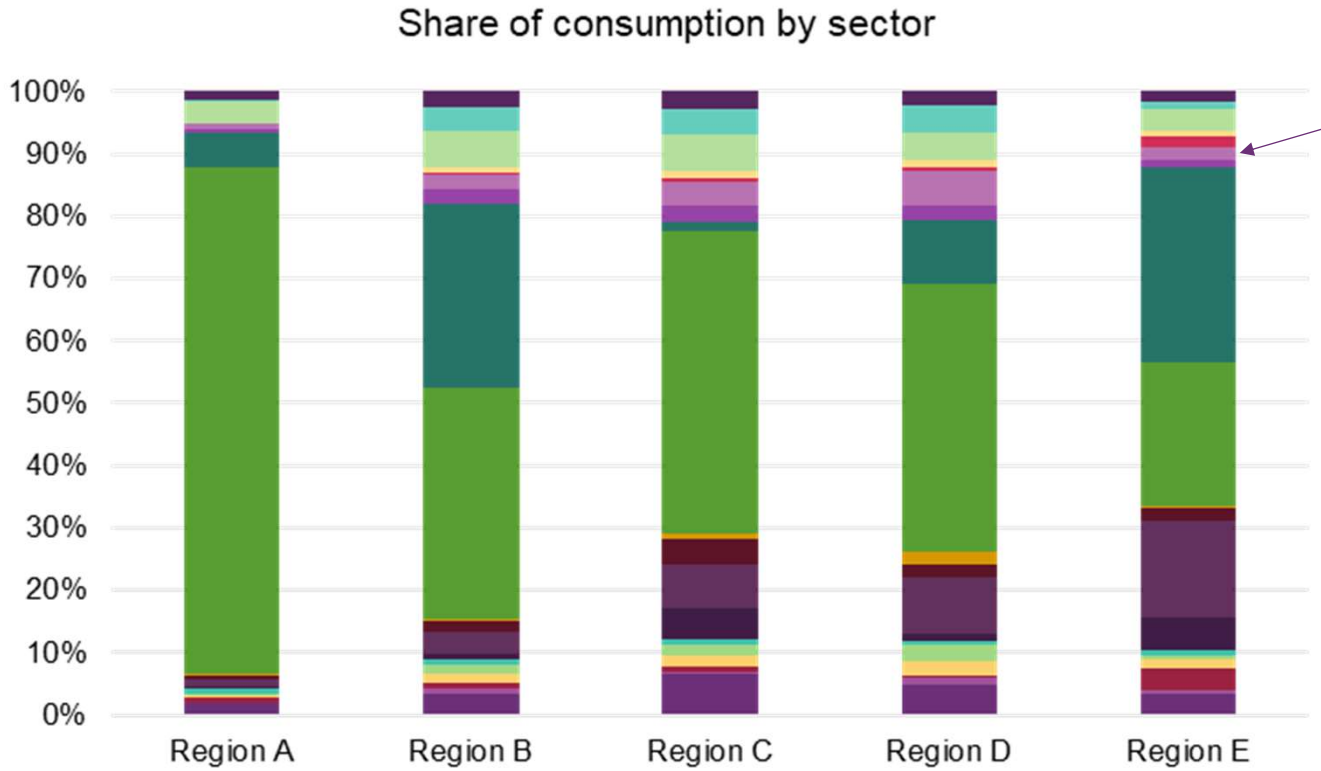
Visibility of sectoral differences by region supports forecast accuracy

Percentage of each region's total energy use



Detailed breakdown by industry sectors

Wholesale Trade
Transport, Postal and Warehousing
Retail Trade
Rental, Hiring and Real Estate Services
Public Administration and Safety
Professional, Scientific and Technical Services
Other Services
Mining
Manufacturing
Information Media and Telecommunications
Health Care and Social Assistance
Financial and Insurance Services
Electricity, Gas, Water and Waste Services
Education and Training
Construction
Arts and Recreation Services
Agriculture, Forestry and Fishing
Administrative and Support Services
Accommodation and Food Services

NB: States and sectors are unlabelled, to avoid revealing sensitive information