

Energy Accounts

Policy uses and applications

Presented by: Lauren Binns



mmm:sps:Bon'sn



- A guick overview of policy uses of the energy accounts
- Some Australian Examples
 - Example 1: National Accounts Benchmarks
 - Use of supply use tables
 - Example 2: Energy price elasticities
 - Use of energy intensity and prices
 - Example 3: Energy productivity
 - Use of hybrid tables





SEEA-Energy informs policy decisions related to the supply and use of energy.

- SEEA-Energy can provide broad guidance on issues and areas of concern that should be the focus of decision makers and provide indicators of progress towards policy objectives.
- SEEA-Energy can support a richer understanding of the issues including potentially identifying the key drivers of change.
- SEEA-Energy framework supports the development of models and scenarios that can be used to assess the impact of possible policies both within a country and between countries.





Overarching policy objectives could typically be framed against three major categories:

- improving energy supply and access to energy;
- managing energy supply and demand;
- and reducing pressures of energy on the environment.





Chapter 7 of the SEEA – Energy focuses on uses of Energy Accounts

| 7 | Uses of Energy Accounts | 3 |
|-------|--|----|
| 7.1 | Introduction | 3 |
| 7.2 | Energy supply and use | 4 |
| 7.5.1 | Overall supply and use of energy | 5 |
| 7.5.2 | Degree of energy self-sufficiency | 6 |
| 7.5.3 | Use of energy and expenditures by industries and households | 7 |
| 7.3 | The energy sector within the economy | 10 |
| 7.5.1 | Output and value added from the energy sector | 10 |
| 7.5.2 | Operating surplus of energy industries and the role of depletion | 11 |
| 7.5.3 | Energy taxes and resource rent | |
| 7.5.4 | Energy and foreign trade | 16 |
| 7.5.5 | Wealth | |
| 7.5.6 | Economy wide energy decoupling | 19 |
| 7.4 | Energy and other sectors of the economy | |
| 7.5.1 | Energy intensities for selected industries | 20 |
| 7.5.2 | Factors behind changes in energy use | |
| 7.5.3 | Energy use attributed to final use of products | |
| 7.5.4 | Domestic and global energy use attributed to household consumption | 25 |
| 7.5 | Energy and the environment | 26 |
| 7.5.1 | Energy sector and air emissions | 26 |
| 7.5.2 | Use of energy accounts for estimation of emissions | 27 |
| 7.5.3 | Analysis of energy related emissions based on the energy accounts | |
| 7.5.4 | The role of renewable energy and waste | |
| | | |





Energy Accounts

Who uses Australia's Energy Accounts?

- At the moment we know of a limited range of users
 - Treasury
 - National Greenhouse Gas Inventories (Environment)
 - Department of Industry, Innovation and Science
 - Australian Taxation Office
 - Australian Gas Association
 - Clean Energy Regulator
 - Australian Competition and Consumer Commission
 - CGE modelling
 - State of the Environment Reporting (upcoming)
- The greatest use of the energy accounts is to get access to more detailed data for policy research and further analysis.

æ ö 🚽 🛠 🕇 🥖



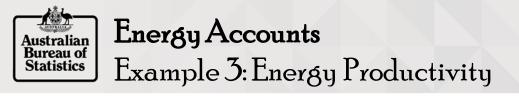
- The energy accounts are an input data source for national accounts supply use benchmarks.
- Primarily used for measuring total intermediate use by industry of energy products.
- Used for coherence checks with energy supply and household final consumption expenditure.
- Energy accounts publish monetary accounts based on the National Accounts Benchmarks.

æ ö 🚽 🛠 🕇 🥖



- Project led by Department of Industry, given to ABS from the energy balances team (also in Dept of Industry)
- Seeking information to test the influence of energy prices on energy elasticities
- Supplied with more detailed energy accounts data (gross tables) and price indicies of energy product by industry.
- ABS assisted the analysis and was able to proof read the results.

æ ö 🚽 🛠 🕇 🥖



- Contacted by a consultant to the department of industry looking at ways in which the government could double energy productivity.
- Used hybrid tables due to the link between energy and costs.
- ABS relied upon to talk through methods and assist in developing a good time series of productivity data for the consultant.
- Results were used in a report back to the department.

