

Energy Productivity Innovation and Transformation in Energy Use

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www.arena.gov.au



Australian Government
Australian Renewable
Energy Agency

ARENA



Australian Renewable Energy Agency

Independent Board works to the ARENA Act 2012
Investment & market orientated Board, CEO and CFO

PURPOSE

Accelerate Australia's shift to a sustainable, affordable and reliable energy future

PORTFOLIO

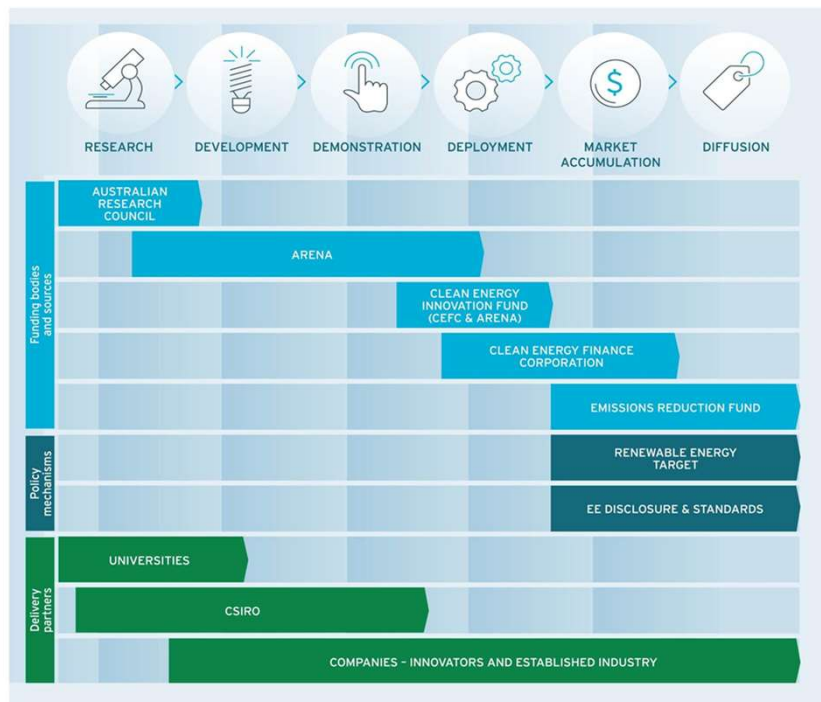
\$1 billion funding committed to support **over 320 projects**

PIPELINE

\$650m funding available to support innovative energy technologies

Innovation Fund is co-managed by CEFC and ARENA

ARENA supports innovation and commercialisation



Core Activities:

- Support world leading Australian R&D;
- Fast track commercialisation of innovative technologies and business models;
- Build knowledge to inform decision-making



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New Investment Priorities

New priorities released on 1 May 2017:

- Delivering Secure and Reliable Electricity
- Accelerating Solar PV Innovation
- Improving Energy Productivity
- Exporting Renewable Energy



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Energy productivity - addressing energy demand

Focus is EP and RE nexus
Strong evidence for co-benefits

Renewable energy and energy efficiency will work in synergy to drive global energy decarbonisation. When pursued together, they result in higher shares of renewable energy, a faster reduction in energy intensity, and lower energy system costs.

Renewable energy and
energy productivity



Innovation and
commercialisation

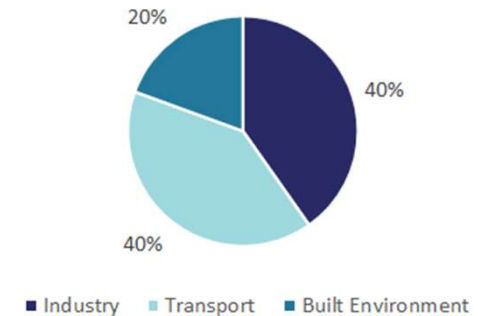


Transformative
change



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Australian Final Energy Consumption



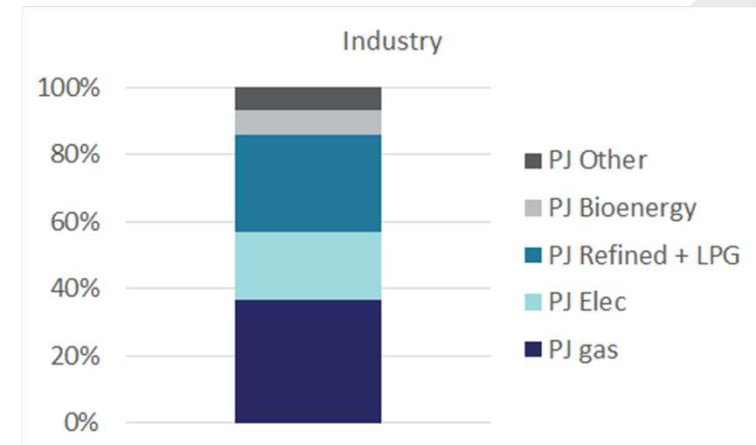
DIIS (2016), Australian energy update 2016, Canberra.

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Industry

Transitioning industry toward a renewable future

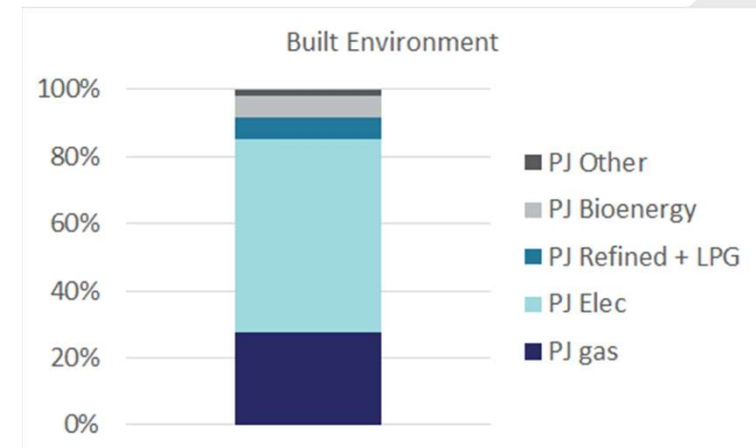
- 37% of energy use in industry is gas
- Process heat is a key use - often at relatively low temperature



Built environment

Enabling net zero emission buildings and precincts

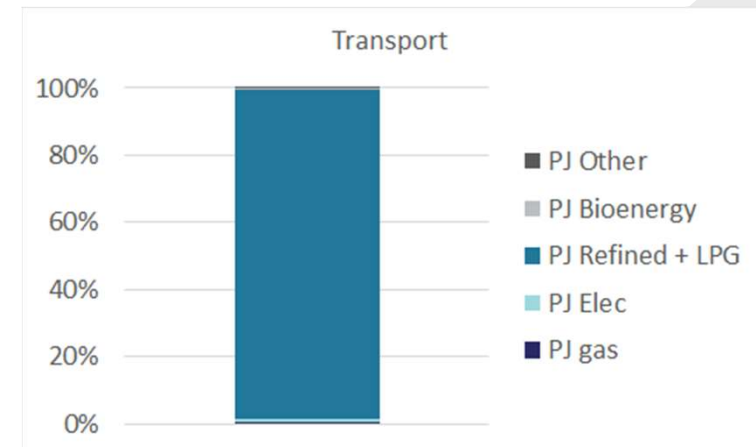
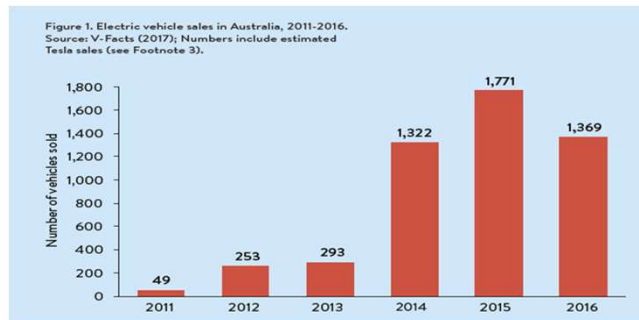
- Thermal comfort (HVAC) accounts for 40% of residential building energy use and 43% of commercial building energy use and (ASBEC 2016)



Transport

Ultra-low emission vehicles

- Transport sector is virtually untouched by RE so far
- Innovation to accelerate uptake and deployment of ULEV and associated infrastructure





How to engage. Next steps

Advancing Renewables Program open now
www.arena.gov.au

2018
Development of energy productivity programs
Launch of specific funding initiatives

Contact:

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Support



Accelerate



Connect



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Thank you

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