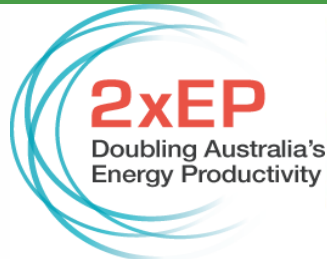


EPIC:

Energy Productivity Innovation Collaborative



AUSTRALIAN
ALLIANCE
TO SAVE ENERGY

Dani Alexander

Forum on Clean Energy Investment and Finance
20 May 2016

EPIC:

Energy Productivity Innovation Collaborative

- 1. Rationale and opportunity**
- 2. Opportunity in innovation**
- 3. Market and policy challenges**
- 4. Collaborative solutions**

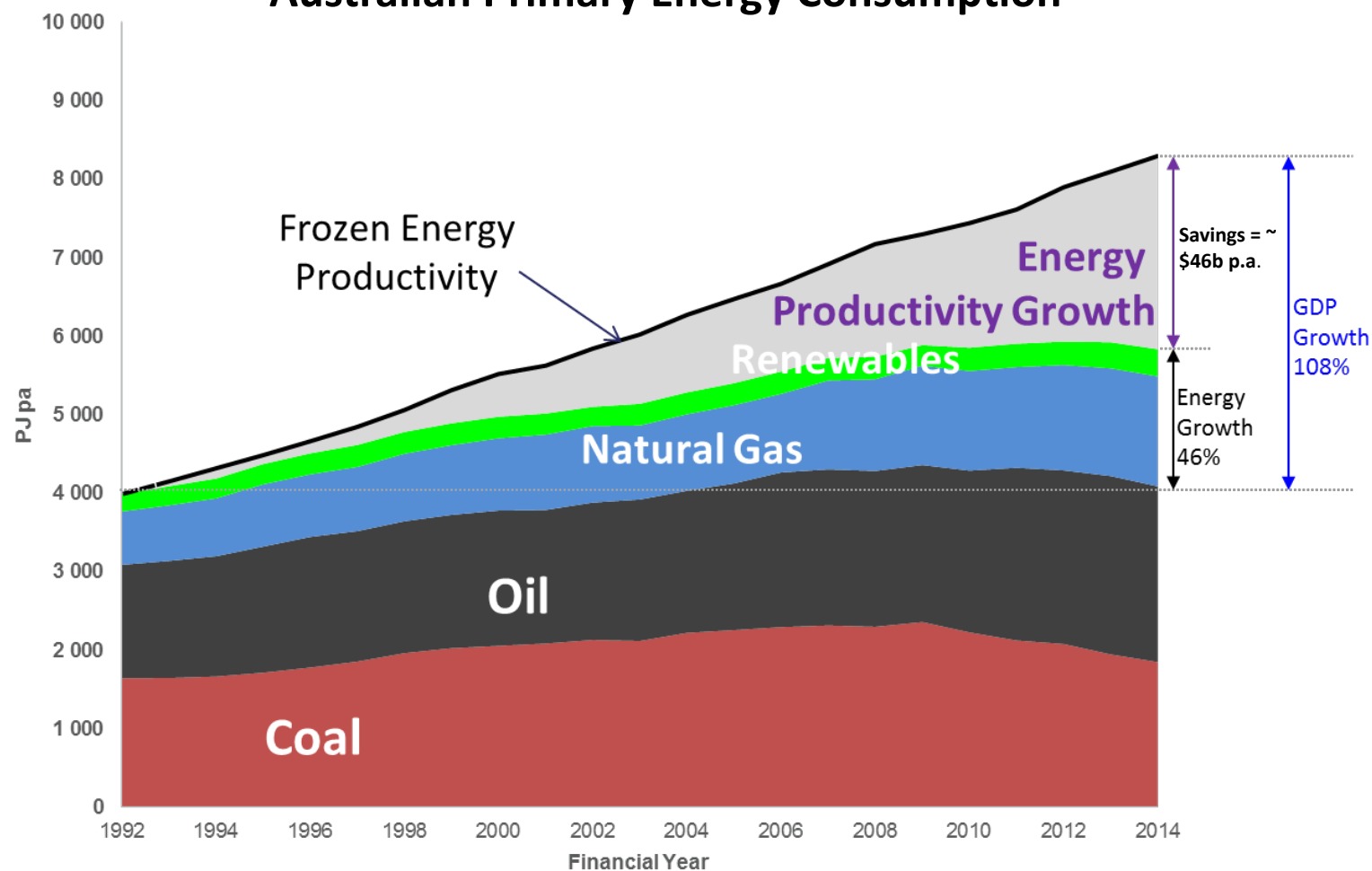
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Rationale

Australian Primary Energy Consumption



Opportunity

NEPP:

9 of 34 NEPP measures relate to Innovation and Research

**NISA: National Innovation
& Science Agenda**

Mission Innovation:

Doubling Australian clean energy research

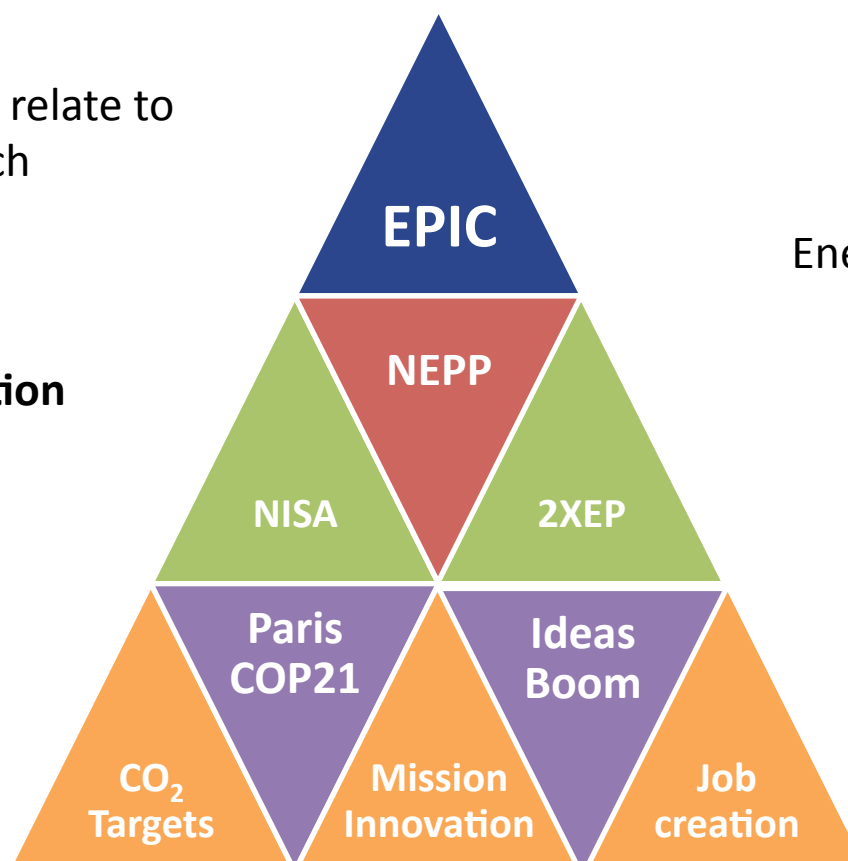
2XEP:

Energy Productivity Roadmap

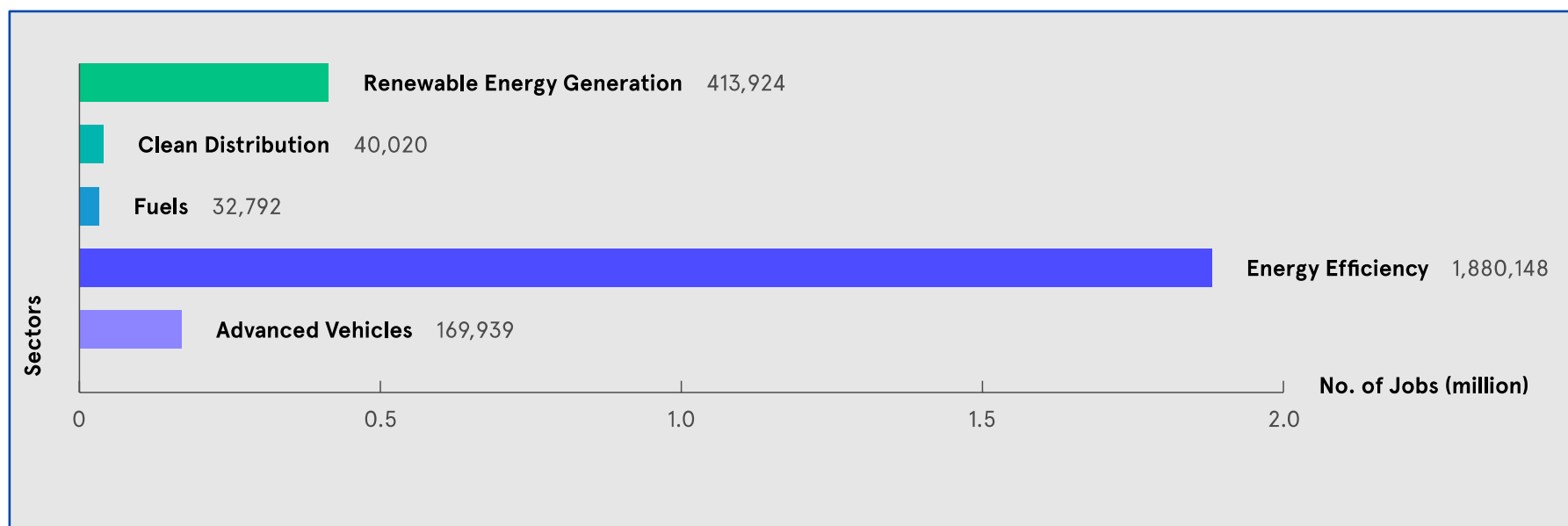
Job creation:

Over 2 million clean energy jobs in the US

**Net zero emissions
by 2050**



Opportunity



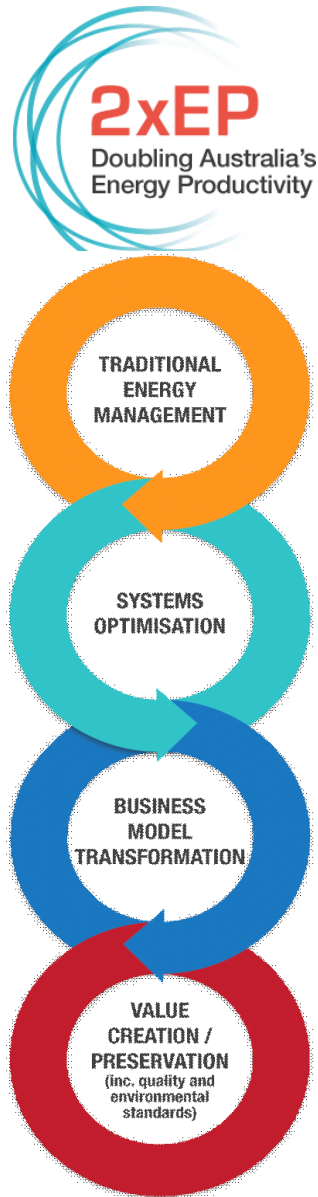
**HOW MANY JOBS COULD ENERGY
PRODUCTIVITY CREATE
IN AUSTRALIA?**

Source: Clean Jobs America, 2016

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Achieving EP targets needs innovation

Traditional energy management: Innovations in all energy end using technologies like improved lighting, drive systems, heating systems and onsite generation

Systems optimisation:

Opportunities through ICT as an enabler, optimisation to improve design of buildings/precincts/urban development, technologies to improve supply chain EP, and improved plant integration

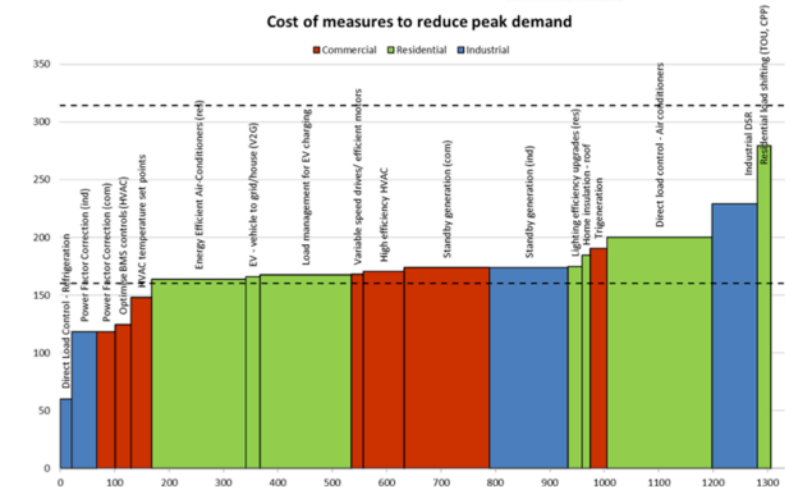
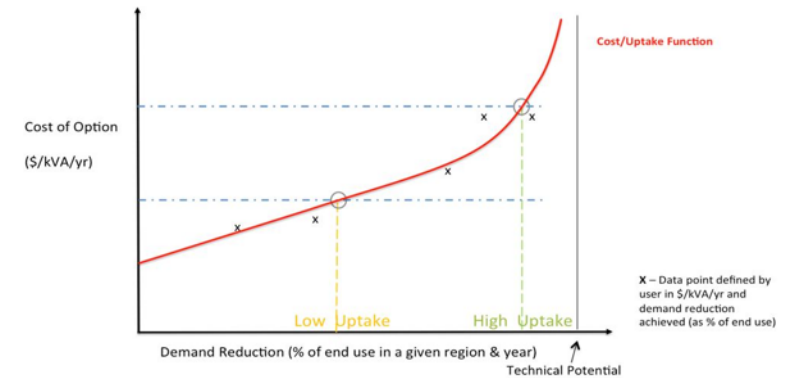
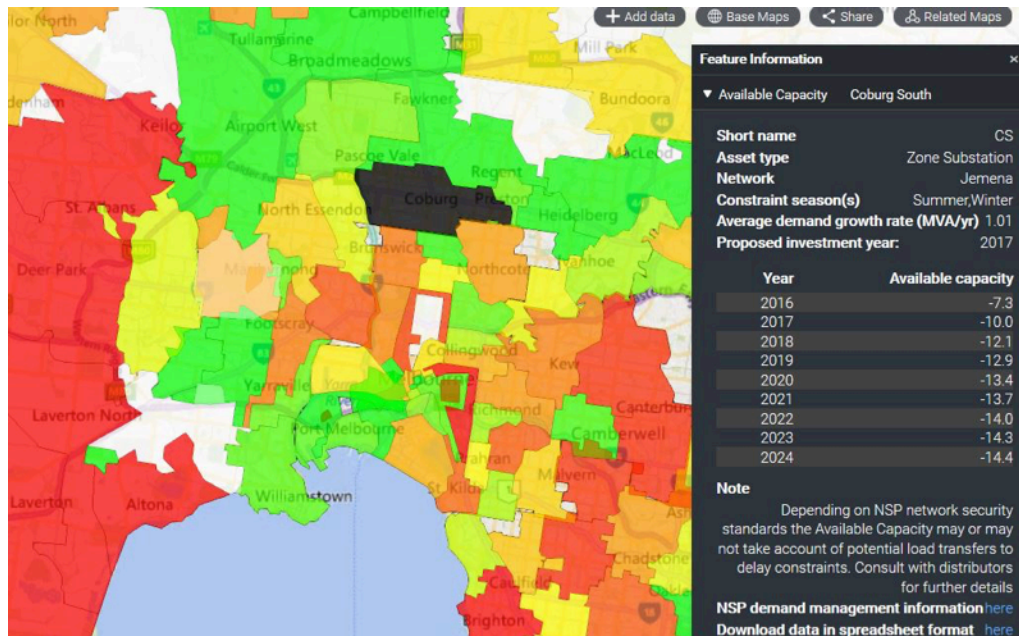
Innovation in business models:

Business transformation involving different processing routes displacing more energy intensive ones e.g. 3D printing.

EPIC



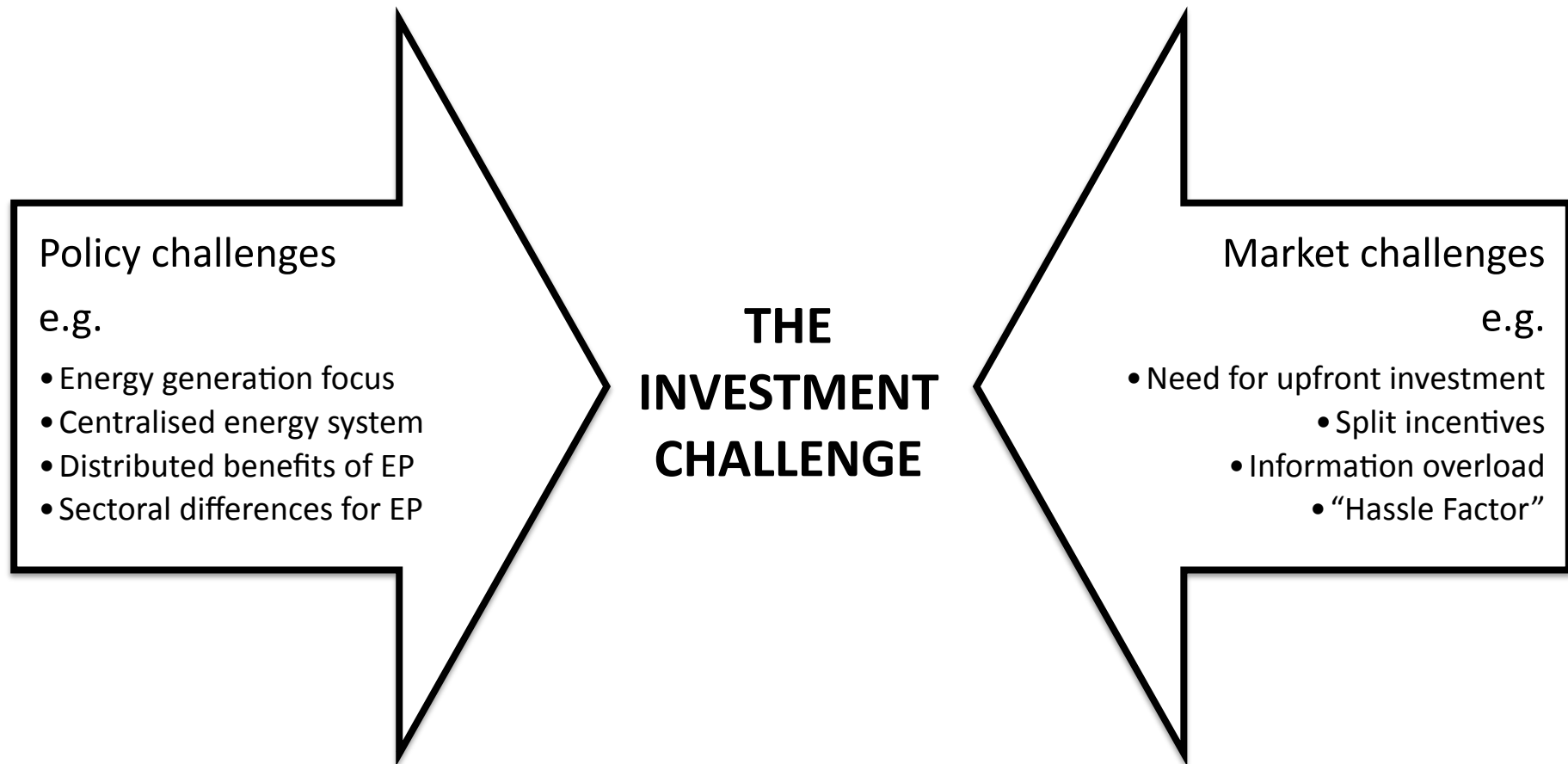
Examples of enabling EP innovation



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EPIC

Challenge can be overcome
by consensus

EPIC



Investment must also be collaborative

THEME	Innovation	Intelligence	Industry Engagement
FOCUS	Start-up Incubators & Accelerators (EnergyLab)	Research, data & market analysis	A2SE: 2XEP Roadmap process
OUTCOMES	New jobs and businesses	Useful knowledge and continuous improvement	Lifting EP in existing business



AUSTRALIAN
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TO SAVE ENERGY



Schneider
Electric



envIZI



Climate-KIC



TransGrid



DENEFF

DEUTSCHE
UNTERNEHMENSINITIATIVE
ENERGIEEFFIZIENZ



energetics

ACEEE

American Council for an Energy-Efficient Economy

EnergyLab

Australia's CleanTech Laboratory



Department
of Industry