





16 JUNE 2017

#### **NSW DEPARTMENT OF INDUSTRY – RESOURCES AND ENERGY**

**Developing an Advanced Energy Industry in NSW** 

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## **About Us**

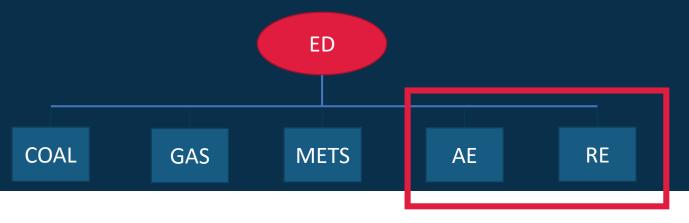
#### **Resources and Energy – Industry Investment and Export Support**

## WHY

- Improve business confidence
- Drive delivery of service from Govt to Industry
- Increase R&E investment
- Produce timely and relevant information for Govt
- Enable access to whole of Govt services

#### HOW

- Sector specific relationship managers
- Promote industry investment
- Improve industry collaboration
- Facilitate Govt interaction





## Renewable and Advanced Energy

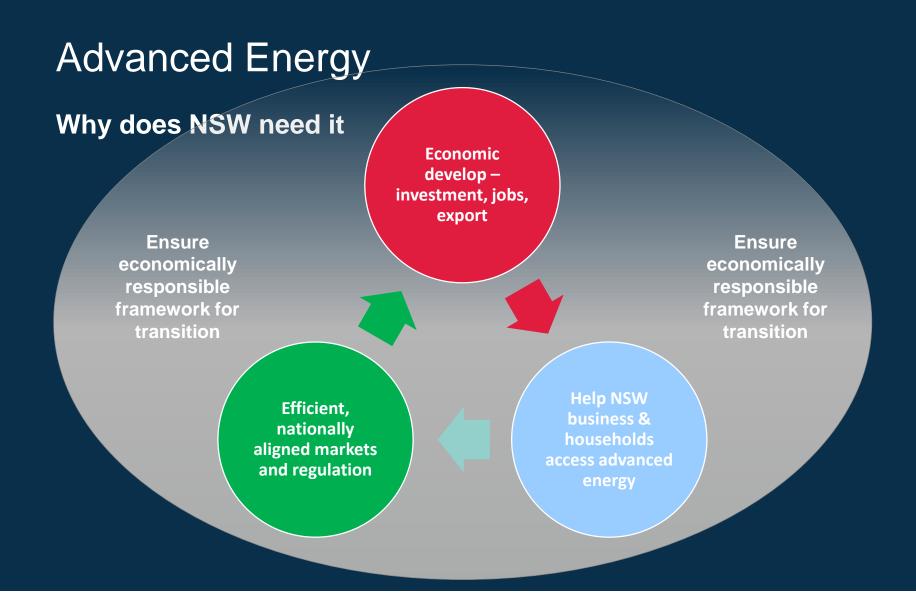
#### **Definitions**

#### RENEWABLE ENERGY

 Energy that is collected from renewable resources, which are naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat

#### **ADVANCED ENERGY**

- Products and services that deliver energy to consumers
- Enable efficient integration and optimum performance of clean energy technologies
- Examples include IoT, storage, smart meters, demand management S/W, low emission transport etc





#### **Industry Development Potential**

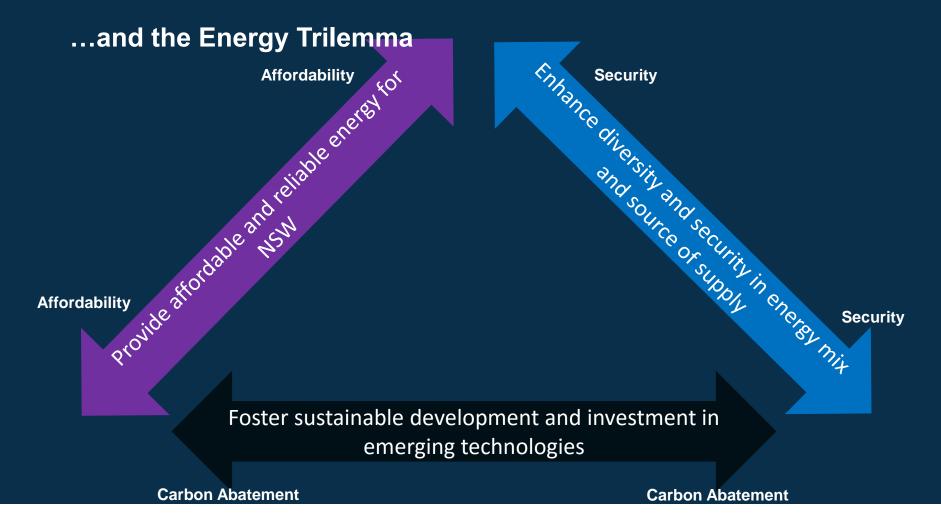
## **GLOBAL**

- US\$ 1.7 trillion dollar industry
  - up 7% compared to 2016
- Twice that off global airline industry
- Supports 3.3m jobs in US alone
- In Q1 2017, \$53b was invested in renewable energy technology

## **AUSTRALIA**

- Renewable energy sector supports 14,000 jobs
  - ~ 4000 alone in NSW
- E&Y survey ranked Australia as 5<sup>th</sup> globally in terms of investment attractiveness
- More than \$7.5b committed in AU (large scale solar and wind)







## Climate Change Fund draft Strategic Plan

#### **OBJECTIVE**

Outline NSW's role in reducing emissions and adapting to climate change

Commits NSW to achieving aspirational target of net zero emissions by 2020

#### **STRATEGY**

Policy directions to guide climate change policies/programs

\$500m over 5 years in new spending

Proposes initiatives that will assist investors/industry accelerate development and adoption

#### **PROPOSED INITIATIVES**

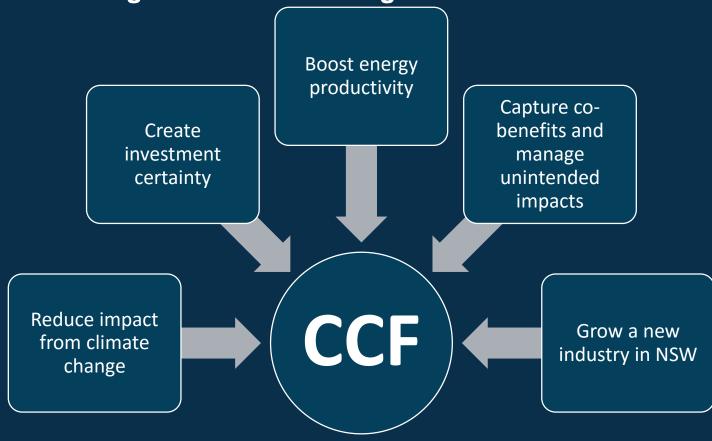
\$200m invested in accelerating advanced energy – support for transition to net-zero future

\$200m invested in energy efficiency – support for boosting energy productivity and reducing costs

**\$100m** invested in preparing for climate change – reduce costs, manage health/wellbeing and protect natural ecosystems and communities



Climate Change Fund draft Strategic Plan





## **Accelerating Advanced Energy**

Policy Operations Advocacy

# Accelerating advanced energy: Attract investment in advanced energy and save emissions Maximise investment under the national Renewable Energy Target Attract investment in advanced energy demonstration projects Provide start-up funding to accelerate innovation in advanced energy Identify low-emissions pathways for emissions intensive sectors Put the New South Wales vehicle fleet on the path to doubling energy productivity Build capacity of local communities to deliver and own renewable energy Reduce emissions in NSW to support achievement of Commonwealth objectives Make Sydney the Asia-Pacific's carbon market hub Identify cost-effective pathways to achieve net-zero emissions



## **National Leadership in Energy Efficiency**

	Policy	Operations	Advocacy
National leadership in energy efficiency: Grow the economy and reduce energy bills			
Expand investment under the Government Resource Efficiency Policy			
Improve energy productivity for households and businesses			
Support industry to realise cost-effective energy productivity opportunities			
Reduce peak demand through battery storage and other demand management measures			
Steward the energy savings market to help households and businesses save energy and save money			
Drive clean energy upgrades for rental households			
Support vulnerable households to reduce their energy bills			
Support small businesses to increase their energy productivity			
Ensure that 40% of participants in the NSW Government clean energy program are in regional New South Wales			
Identify energy efficiency measures that could double New South Wales' energy productivity			

## **National Leadership in Energy Efficiency**

**Preparing for a changing climate:** Minimise impacts of climate change in New South Wales Increase awareness of climate change risks in industry sectors and local governments Ensure 100% of NSW Government agencies are taking action to manage their climate change risks Grow the adaptation services market Assist local communities to reduce their exposure to natural hazards Invest in private land conservation Increase canopy coverage in heat exposed suburbs and regional towns Improve understanding of climate change impacts in priority sectors



#### What's next?

- Develop Action Plans for release second half of 2017
- Commence Climate Change Fund funded programs from release of Action Plans

More information about the Draft Climate Change Fund Strategic Plan via

https://engage.environment.nsw.gov.au/Environmental-Future-Consultation-CCF-Strategic-Plan

