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NSW DEPARTMENT OF INDUSTRY – RESOURCES AND ENERGY

Developing an Advanced Energy Industry in NSW

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About Us

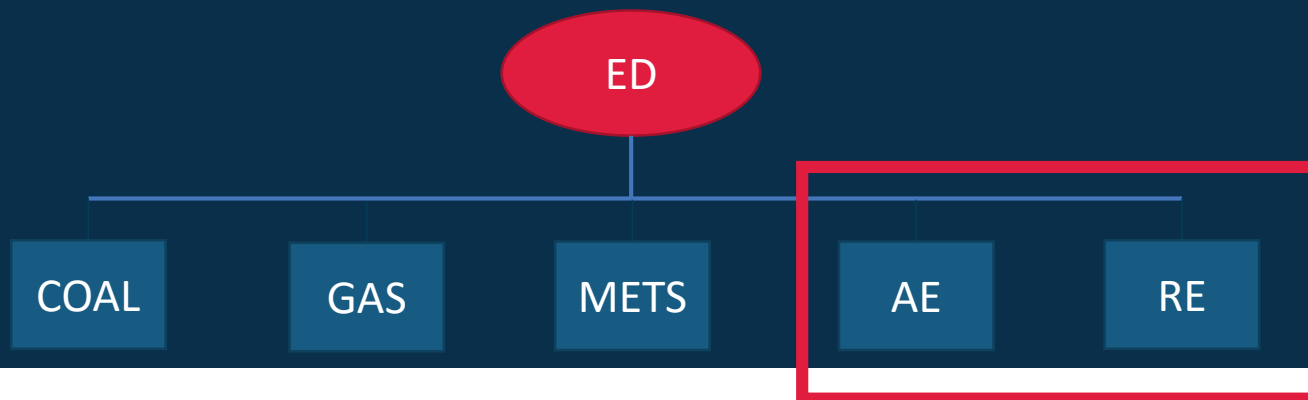
Resources and Energy – Industry Investment and Export Support

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

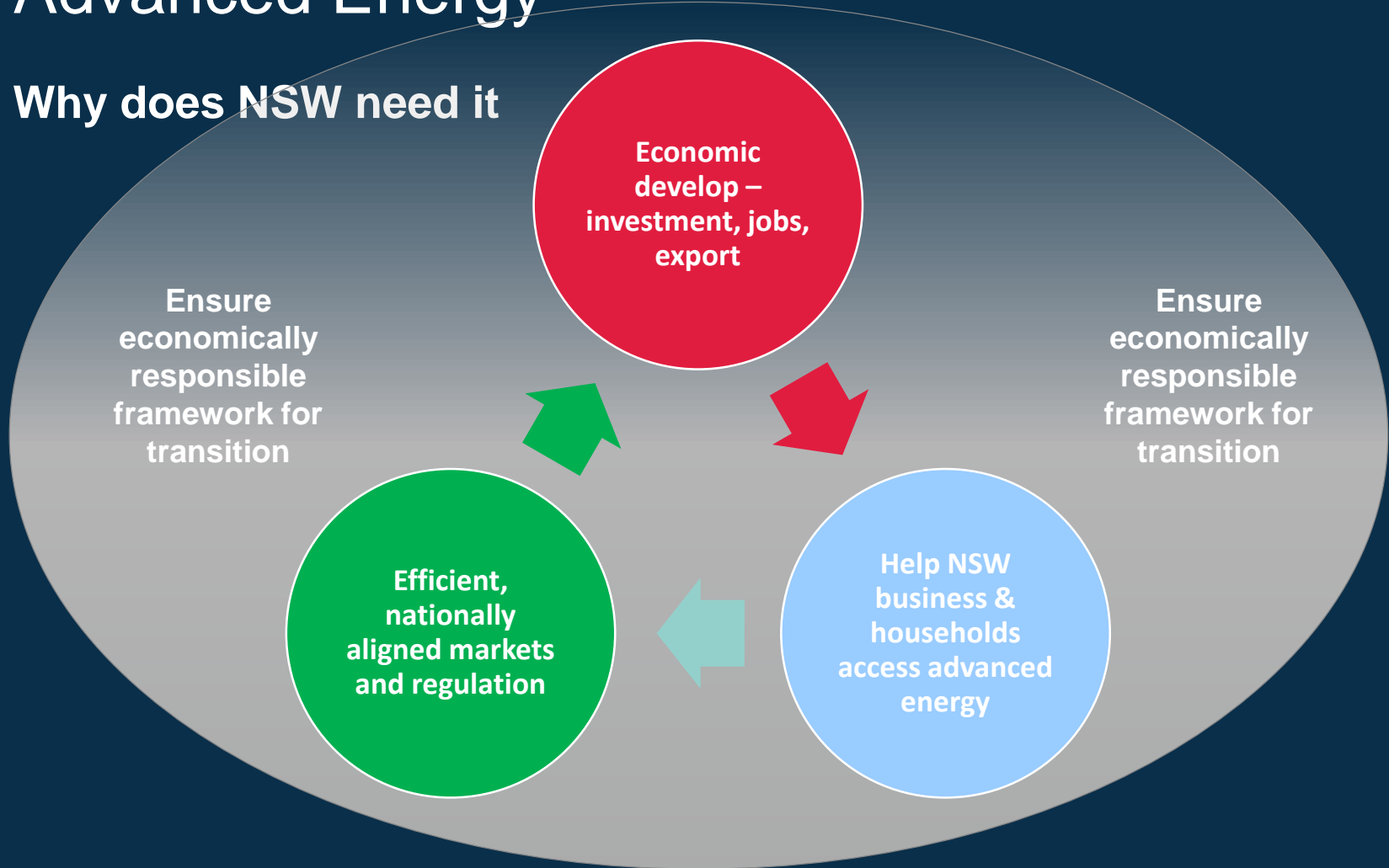
- Energy that is collected from renewable resources, which are naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat

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

Advanced Energy

Why does NSW need it



Advanced Energy

Industry Development Potential

GLOBAL

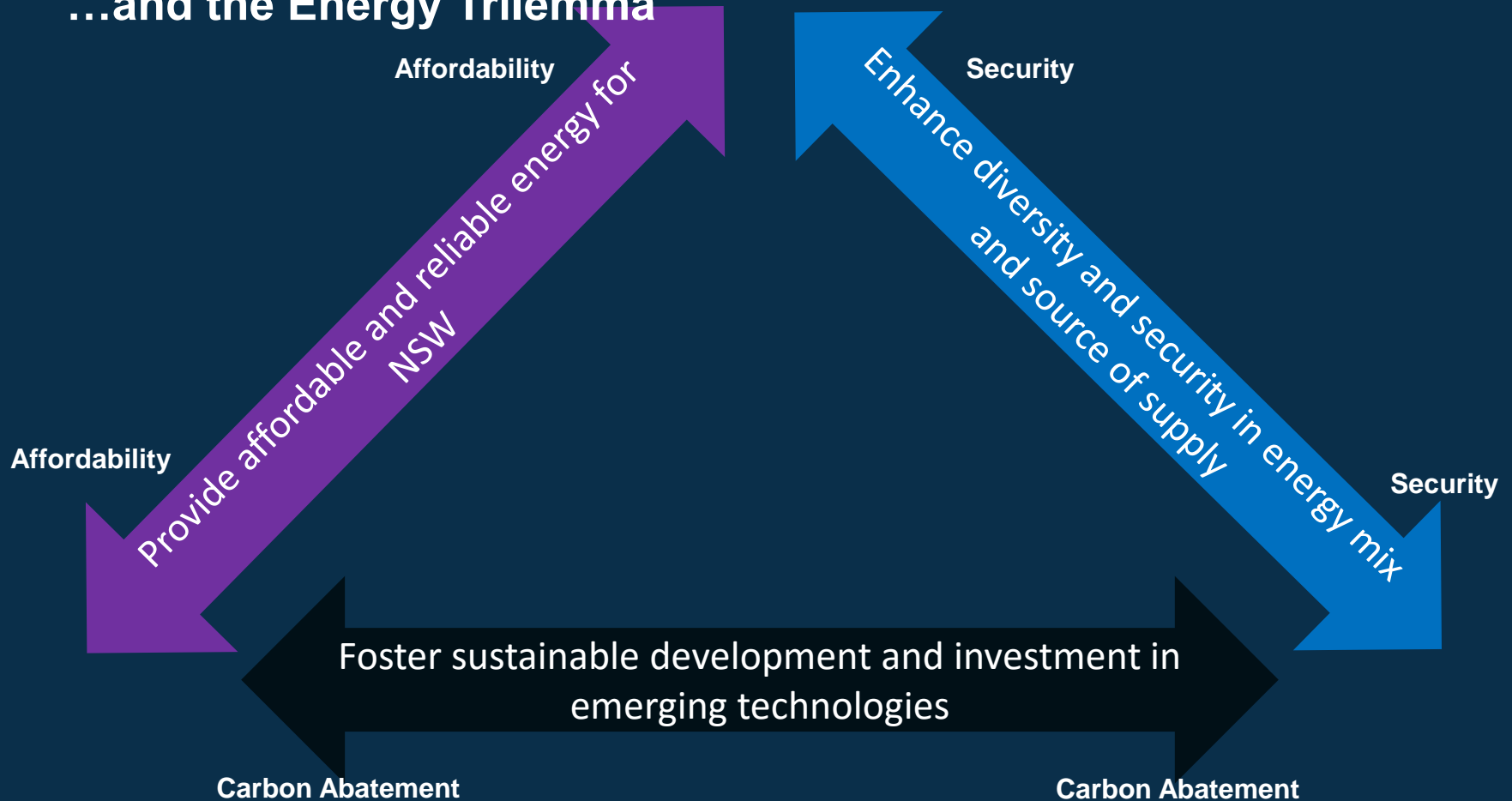
- US\$ 1.7 trillion dollar industry
 - up 7% compared to 2016
- Twice that off global airline industry
- Supports 3.3m jobs in US alone
- In Q1 2017, \$53b was invested in renewable energy technology

AUSTRALIA

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

Advanced Energy

...and the Energy Trilemma



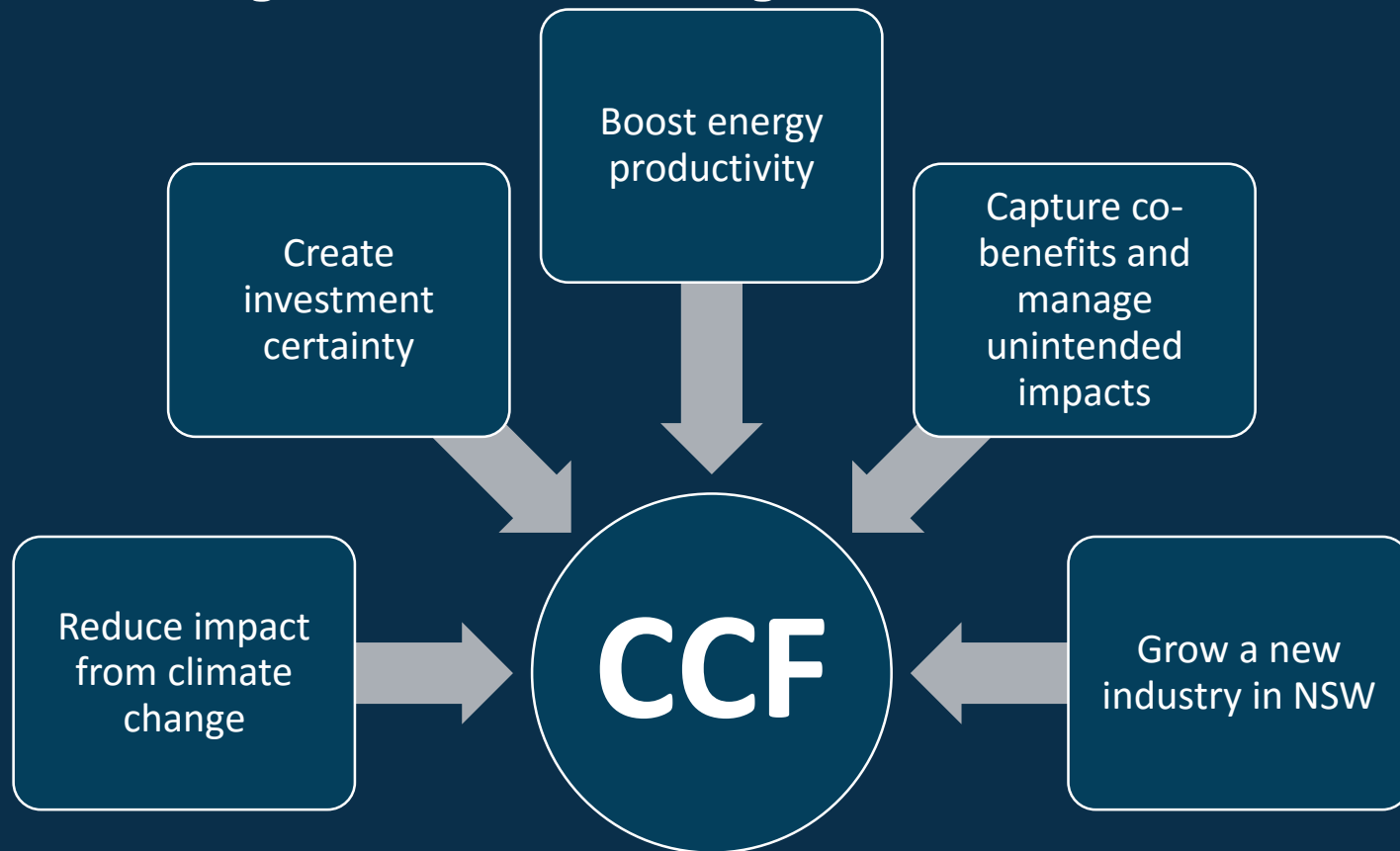
Advanced Energy

Climate Change Fund draft Strategic Plan

OBJECTIVE	STRATEGY
Outline NSW's role in reducing emissions and adapting to climate change	Policy directions to guide climate change policies/programs
Commits NSW to achieving aspirational target of net zero emissions by 2020	\$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	

Advanced Energy

Climate Change Fund draft Strategic Plan



Climate Change Fund

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			

Climate Change Fund

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			

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National Leadership in Energy Efficiency

Policy

Operations

Advocacy

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

Climate Change Fund

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>