

### COVID-19 fiscal recovery pathways: stimulus to win on both economics and climate

Professor Cameron Hepburn & Brian O'Callaghan

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(Hepburn et al. 2020)





Surveyed +230 leading economists (covering all G20 countries)



Analysed past **clean policy studies** (both public and private)

# Global survey identifies a subset of policies that perform well on both economic and climate metrics





Three key findings for policy makers



Recovery policies can deliver both climate and economic goals – five emerge above others

- 1. Clean physical infrastructure investment
- 2. Building efficiency spending
- 3. Education and training investment
- 4. Natural capital investment
- 5. Clean R&D spending



**Co-benefits are ripe for the picking** and include social, environmental, health and political benefits



The devil is in the detail – green policy success/failure can be determined by the details

# Global recovery pulse check shows a subset of nations leading the pack

#### We've seen significant green spending in the past months...

State	AUD clean <u>recovery</u> stimulus (% of total recovery stimulus) <sup>1</sup>	Clean policy highlights (abridged)
EU	>\$400bn (30%)	Renewables, retrofits, hydrogen, Just Transition Fund
Germany	~\$51bn (21%)	Hydrogen, electric vehicles, aviation, shipping
France	~\$52bn (34%)	Connectivity, hydrogen, circular economy
Sth Korea	>\$37bn (42%)	Natural capital, renewables, worker retraining
UK	~\$16bn (32%)	Retrofits, clean heavy industry, CCS

#### ...although many nations are yet to announce major recovery plans



1. Based on Smith School tracking and original analysis.



## Asymmetric global spending could reshape future industry and threaten Australian competitiveness

#### **Global<sup>1</sup> public hydrogen R&D spending** (AUD, billions)



#### **Drivers and Implications**

- Sudden acceleration of interest in emerging clean technologies driven by economics, reframed technologies, and recession
- 2 Investment today likely to bring significant competitive advtg in controlling future markets
- 3 Failure of incumbents to invest today could mean the forfeiture of natural endowment advtg

1. Excludes China. Annual BAU 2020 spending taken as 3-year average (2017-2019), which is likely to be an underestimate. So far, Germany has committed USD10.7bn (by 2030), France USD2.4bn (by 2022), and Korea USD0.5bn (by 2021). The EU has finalised an H<sub>2</sub> strategy that expects investments of USD3bn to USD18bn. Sources: IEA and Smith School Stimulus Tracker.







## What about the Lucky Country?



Rich clean energy resources

Relatively strong skills base



Economy distressed but not in tatters

brian.ocallaghan@smithschool.ox.ac.uk | @brian\_ocall

### Our perspectives on select recovery options in Australia



Initiative		<b>Overall Assessment</b>	Considerations		
	Transmission infrastructure	Key renewables enabler	- AE - Ve - No	MO ISP identifies projects to unlock cheap renewables ery high expected national income multiplier o regrets policy	
	Building efficiency retrofits	"Fruit on the ground"	- Co - Ve - Ec	omparatively low skill requirements ery high expected national income multiplier conomic impacts can be effectively targeted	
	Clean R&D (hydrogen focus)	Unlocking future industries	- If c - Ve - Es	output captured, can stimulate multi-decadal growth ery high long-term national income multiplier ssential role as longer-acting stimulus in package	
	Direct cash payments	Great rescue policy, poor recovery policy	- Eff - Ine	fective for keeping people alive effective for new domestic growth unless highly targeted	
	A 'gas-led' recovery	Ridiculous fiscal policy	- Ne - Dri	ew turbines not needed until 2030 illing and transport should not be govt-subsidised	
				Highest value initiatives	

brian.ocallaghan@smithschool.ox.ac.uk | @brian\_ocall

### Job analysis in briefing notes aligns with our findings





## Clean recovery spending clearly makes sense in Australia but key questions need to be answered pronto

- Core Clean Spending -
  - 1 Which clean initiatives suit Aus best? (confirm hypotheses)
    - 2 How can initiatives be regionally-targeted and class-targeted?
    - 3 How much should be allocated to each initiative?

- Requisite Enablers

What new **governance structures** could help and where would they sit? (NB CSIRO)

What **financing mechanisms** will maximise private capital crowd-in? (NB ClimateWorks Australia)



What **advisory supporting structures** are necessary?



How can we **partner with other nations**?

Urgently requires accelerated analysis to form actionable recommendations





### **Questions and discussion**

brian.ocallaghan@smithschool.ox.ac.uk | @brian\_ocall cameron.hepburn@smithschool.ox.ac.uk | @camjhep