



# THE BRIEFING ROOM

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**THE BRIEFING ROOM**

**Transport: Moving to zero**

[climateworksaustralia.org](http://climateworksaustralia.org)



MONASH  
SUSTAINABLE  
DEVELOPMENT  
INSTITUTE



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## Key findings

- Transport one of Australia's largest and fastest growing sources of emissions
- COVID-19 provides a critical opportunity to shift our transport systems towards zero emissions
- Without intervention, transport systems, behaviours and emissions will return to previous trends
- This is the decade for action on climate change
- Zero emissions transport solutions are available today

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## Transport one of the largest and fastest growing sources of emissions



The size of each box equates roughly to the relative contribution of each emissions source. Excludes emissions from electrified transport systems.

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## Established solutions exist to shift Australia's transport system to zero emissions

### Established opportunities

#### Passenger road and rail transport

- Mode shift
- Transport demand management
- Planning policy
- Fuel efficient fossil-fuelled vehicles
- Renewable-powered electric passenger vehicles

#### Freight road and rail transport

- Mode shift
- Load management
- Planning policies
- Fuel efficient fossil-fuelled vehicles

#### Aviation

- Mode shift
- Avoid trips
- Load management
- Flight path efficiency
- Local commerce
- Vehicle design for energy efficiency

#### Shipping

- Local commerce
- Route efficiency
- Vehicle design for energy efficiency

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## **This is the decade to invest in emerging solutions to shift the rest of Australia's transport system to zero emissions**

### **Emerging opportunities**

#### **Passenger road and rail transport**

- Renewable hydrogen fuel cell electric vehicles
- Possible support by emerging technologies

#### **Freight road and rail transport**

- Renewable-powered electric light and heavy commercial vehicles
- Renewable hydrogen fuel cell electric vehicles
- Biofuels
- Possible support by emerging technologies

#### **Aviation**

- Renewable-powered electric aircraft
- Renewable hydrogen fuel cell electric aircraft
- Biofuels

#### **Shipping**

- Renewable-powered electric ships
- Renewable hydrogen fuel cell electric ships
- Biofuels

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## **COVID-19 response presents an opportunity to accelerate the transition**

- Transport in countries and cities around the world has radically changed
- This shows that governments, business and the community can rapidly shift
- We have the opportunity to re-imagine transport to:
  - Create quieter, cleaner, healthier cities
  - Move rapidly to a zero emissions transport system
  - Create jobs, improve access to employment, assist the economic recovery
- Many countries and cities around the world are choosing to invest in sustainable transport as part of their COVID-19 response and economic recovery plans





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# THANK YOU

## You'll receive an email with:

- + A recording of the presentation
- + Info on our upcoming webinar

[climateworksaustralia.org/the-briefing-room](https://climateworksaustralia.org/the-briefing-room)