

# Transport and Infrastructure Net Zero Consultation Roadmap

## Take the survey

Department of Climate Change, Energy, Environment and Water

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- 1 Confirm that you have read and understand this privacy notice.  
Yes
- 2 Please indicate how and if you want your submission published.  
Public
- 3 Published name  
Electrify Adelaide
- 4 Confirm that you have read and understand this declaration.  
Yes
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Jasper
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- 9 Who are you answering on behalf of?  
Organisation
- 10 Organisation name  
Electrify Adelaide
- 11 What best describes you or your organisation?  
Not for profit
- 12 What sector do you represent?  
Energy  
Climate change/net zero
- 13 What state or territory do you live in?  
South Australia
- 14 Postcode  
5034
- 15 What area best describes where you live?  
City
- 16 1. Do you support the proposed guiding principles?  
Yes
- 17 1.1 Please add details to your response.  
Not answered
- 18 2. Do you support the use of the avoid-shift-improve framework as a tool to identify opportunities for abatement?

Yes

19 2.1 Please add details to your response.

Not answered

20 3. Do you agree the development of a national policy framework for active and public transport will support emissions reduction?

Yes

21 3.1 Please add details to your response.

More coordination of planning and funding between all 3 levels of government is key for contiguous active transport corridor.

22 4. What should be included in a national policy framework for active and public transport and how should it be developed?

A measurable target of % trips done by active and public transport

23 5. What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to ensure the movement of people contributes to transport emissions reduction?

Significant funding for state/local government to enable rapid delivery of shovel ready projects.

24 6.1 What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to ensure that the movement of goods contributes to transport emissions reduction?

Last mile delivery abatement via e-bikes and EV vans is technology ready and tax writeoffs available for more rapid investment by businesses in this space.

Prioritisation of intermodal infrastructure to better enable rail vs road transit for goods.

Prioritisation of corridors such as the Maldon – Dombarton railway line to allow transfer of freight between the Western Sydney airport and Illawarra ports

Northern Rail Freight Bypass in South Australia should be prioritised to take heavy freight off Adelaide suburban streets that currently add significantly to noise and air pollution

- 25 6.2. How would these actions address the identified challenges and opportunities for emissions reduction in the movement of goods?  
Reduce emisisions from road based transport
- 26 7. Do you agree with the proposed net zero pathway for light road vehicles?  
Yes
- 27 7.1 Please add details to your response.  
Not answered
- 28 8. The Australian Government is currently developing an Australian New Vehicle Efficiency Standard and has already begun to implement actions in the National Electric Vehicle Strategy.8.1 What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to reduce light vehicle emissions?  
Weight and Emissions based registration levies to disincentivise heavy/large and heavy polluting vehicles
- 29 8.2 How would these actions address the identified challenges and opportunities to reduce light vehicle emissions?  
Better focus consumers to more efficient and smaller vehicle options. Heavy weight - whether ICE or EV adds to road wear costs
- 30 9. Do you agree with the proposed net zero pathway for heavy road vehicles?  
Yes

31 9.1 Please add details to your response

Not answered

32 10. The proposed pathway for heavy road vehicles relies on a mix of battery electric, hydrogen fuel-cell and low carbon liquid fuels. Rank from 1 to 3, the order in which these should be prioritised for emissions reduction.

1: Battery electric

33 10.1 Please add details to your response. Why did you rank them in that order?

Low Carbon fuels are a zero sum game as agricultural sources for sources like ethanol have a large soil degradation and fertiliser input - all sourced from fossil fuels.

There is increasing evidence that the rapid improvements of EV battery density and cost reduction is rendering HFCV heavy vehicles obsolete. For any cost reduction for Hydrogen by weight is predicated by large drops in renewable energy costs for green hydrogen, but direct electrification taps into these cost reductions too without the efficiency losses. Basically, any cost reduction in hydrogen, EVs will have it 3x over.

That said there should be standardisation of battery swapping technologies for long distance freight travel where Megacharging is still too slow.

34 11. What role should low carbon liquid fuels play in the heavy vehicle decarbonisation?

None

35 12. What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to reduce heavy vehicle emissions?

Investment in megacharging infrastructure in key freight corridors

36 13. Do you agree with the proposed net zero pathway for rail?

Yes

- 37 13.1 Please add details to your response.  
Not answered
- 38 14. The proposed pathway for rail relies on a mix of battery electric, hydrogen fuel-cell and low carbon liquid fuels. Rank from 1 to 3, the order in which these should be prioritised for emissions reduction.  
1: Battery electric  
2: Hydrogen fuel cell  
3: Low carbon liquid fuels
- 39 14.1 Please add details to your response. Why did you rank them in that order?  
Hydrogen is too expensive. Liquid Fuels are inherently too expensive and carbon intensive if sourced from crops.
- 40 15. What role should low carbon liquid fuels play in rail decarbonisation?  
None
- 41 16. What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to reduce rail emissions?  
More rail infrastructure, more intermodal transfer investment
- 42 16.1 How would these actions address the identified challenges and opportunities to reduce rail emissions?  
Not answered
- 43 17. Do you agree with the proposed net zero pathway for maritime?  
Yes
- 44 17.1 Please add details to your response.  
Not answered

- 45 18. The Australian Government is engaging in consultation as part of the development of the Maritime Emissions Reduction National Action Plan and those consultations will also inform the final Roadmap and Action Plan. 18.1 What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to reduce maritime emissions?  
Not answered
- 46 18.2 How would these actions address the identified challenges and opportunities to reduce maritime emissions?  
Not answered
- 47 19. Do you agree with the proposed net zero pathway for aviation?  
No
- 48 19.1 Please add details to your response.  
SAF are not proven to be cost effective or low carbon - when sourced from crop based fuels, the soil degradation and fertiliser inputs would render any carbon benefit moot. We are the only G20 country without HSR and host 2 of the most highly trafficked domestic plane routes (SYD > MEL, SYD > BRIS) because of no time sensitive plausible alternative to plane travel.
- 49 20. The Australian Government has already engaged in consultation on aviation decarbonisation through the development of the Aviation White Paper and those consultations will also inform final Roadmap and Action Plan.  
Not answered
- 50 20.1 What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to reduce aviation emissions?  
Urgent national project to prioritise Brisbane > Sydney > Melbourne as a HSR corridor to be completed before 2040

- 51 21. Do you agree with the proposed net zero pathway for transport infrastructure?  
Yes
- 52 21.1 Please add details to your response.  
Not answered
- 53 22. What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to reduce transport infrastructure emissions and ensure that transport infrastructure is ready for and enables low-emission transport modes?  
Faster approval processes, value capture along HSR corridors
- 54 22.1 How would these actions address the identified challenges and opportunities to reduce transport infrastructure emissions?  
Not answered
- 55 23. What additional actions by governments, communities, industry and other stakeholders need to be taken now and in the future to ensure the energy mix is ready to support transport emissions reduction?  
Frequent flyer tax to reduce unneeded business air travel
- 56 24. How should the use of low carbon liquid fuels (LCLFs) be prioritised across different transport modes over time to achieve maximum abatement?  
This would only be cost effective under a carbon price.
- 57 25. What are the best ways for the Australian Government to work collaboratively with industry, business, governments and communities to implement the proposed pathways?  
Not answered

- 58 25.1 What are good domestic or international examples of partnership and collaboration on transport and transport infrastructure emissions reduction that could inform the final Roadmap and Action Plan?  
Not answered
- 59 25.2 What opportunities can Government leverage to show leadership in Australia and internationally?  
Not answered
- 60 26. What measures and metrics should be used to evaluate the final Transport and Infrastructure Net Zero Roadmap and Action Plan?  
Not answered
- 61 26.1 What other data and evidence could governments use and how could this offer further insights on the pace, scale and location of transport emissions reduction pathways?  
Not answered
- 62 27. Do you have any feedback on the proposed review process?  
Not answered
- 63 28. Do you have any further feedback on the Consultation Roadmap and proposed pathways?  
Not answered
- 64 28.1 Is there anything missing? Are the sections appropriately integrated? Is the Roadmap appropriately ambitious?  
Not answered
- 65 29. Is there any further information or documentation that you wish to be considered with your submission?  
Not answered

66 Would you like to upload a document?

No

67 Have you removed any identifying information from your submission?

Not answered

68 Upload a submission

Not answered

69 Upload a submission

Not answered

70 Upload supporting file

Not answered

71 Upload supporting file

Not answered