

CONNECT RAIL



5-6 August 2024 | Sofitel Sydney Wentworth

CONNECT RAIL

DAY ONE | Monday 5th August 2024

CONNECT RAIL PLENARY DAY ONE

- 8.15 Registration and morning refreshments**
- 8.45 Welcome to Country**
Uncle Allen Madden, Respected Gadigal Elder, Cultural Representative for the Metropolitan Local Aboriginal Land Council
- 9.00 OPENING | Opening remarks from the Chair**
Georgia Gosse, *Principal, Infrastructure Advisory, Aurecon*
- 9.10 FEDERAL GOVERNMENT KEYNOTE**
Working with industry to manufacture the rail skills for a Future Made in Australia
Senator the Hon Tim Ayres, **Assistant Minister for Trade, Assistant Minister for Manufacturing, Australian Government**
- 9.40 KEYNOTE ADDRESS | Regulator's role in introducing new technologies, decarbonisation and automation**
Dr Natalie Pelham, *Chief Executive, ONRSR*
- 10.10 KEYNOTE ADDRESS | NRAP Update**
Michael Hopkins, *Chief Executive Office and Commissioner, National Transport Commission*
- 10.40 Networking and refreshment break**
- 11.10 PANEL DISCUSSION | State of the Nation**
Moderator: Naomi Dickinson, *Managing Director, Redding Consulting*
Ian Porter, *First Assistant Secretary, Data Research, Strategy and Net Zero, Department of Infrastructure, Transport, Regional Development, Communications and the Arts, Australian Government*
Greg Cox, *First Assistant Secretary, Commonwealth Infrastructure Projects, Department of Infrastructure, Transport, Regional Development, Communications and the Arts, Australian Government*
Darren McNamara, *Director Strategy-Freight, Transport for NSW*
Peter Papantoniou, *General Manager (Rail Infrastructure Delivery), Translink*
Dr Jim Altham, *Sustainability Coordinator, Infrastructure Planning and Land Services, Public Transport Authority of Western Australia*
- 12.00 Global perspectives on the latest advancements and innovations in rail services including opportunities within the local Australian market**
Matt Byrne, *Services Product Line President & Global D&I Lead, Alstom*
- 12.30 An update on the carbon market in Australia and its economic implications**
Vivek Dhar, *Director - Mining and Energy Commodities Research, Commonwealth Bank*
- 13.00 RISSB Update**
Damien White, *CEO, RISSB*



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13.15 Lunch and networking break

CONCURRENT CONFERENCE STREAMS	
RAIL DECARBONISATION	RAIL OPERATIONS
<p>Welcome from Chair Georgia Gosse, <i>Principal, Infrastructure Advisory, Aurecon</i></p>	<p>Welcome from Chair</p>
<p>14.10 An update on the safeguard mechanism Edwina Johnson, <i>Branch Head, Safeguard Mechanism and Carbon Leakage Review, Department of Climate Change, Energy, the Environment and Water</i></p>	<p>14.10 AI CASE STUDY Practical uses for Artificial Intelligence in rail Mark Wood, <i>Chief Technology Officer, 4AI Systems & General Manager, Communications & Electronics, 4Tel</i> Tony Austen, <i>Locomotive Engineering Manager, Pacific National</i></p>
<p>14.30 Climate resilience: Setting the scene for the next few years Anitra Hobby, <i>ESG Principal, Pacific National</i></p>	<p>14.30 Rail yard full automation - From swarm logic to AI Kevin Lill, <i>Principal Optimisation, Rail Digital, Rio Tinto Iron Ore (RTIO)</i></p>
<p>15.00 What does Aurizon's transition to net-zero look like? Roger Buckley, <i>Fleet Decarbonisation Manager, Aurizon</i> Damien Harding, <i>Principal, Harding Innovation Consulting</i></p>	<p>15.00 The future of digital engineering: Improving data management Simon Vaux, <i>CEO, DEOS Digital</i></p>
<p>15.30 CASE STUDY Understanding scope 3 emissions - Queensland Rail's findings Troy Harrison, <i>Manager Environment Strategy, Queensland Rail</i></p>	<p>15.30 CASE STUDY Safe Access for Maintenance Program Moscow Mok, <i>Associate Director, Asset Scheduling & Delivery Co-ordination, Sydney Trains</i></p>
16.00 Networking and refreshment break	
<p>16.20 INTERNATIONAL KEYNOTE ADDRESS Transport for London's approach to decarbonisation, extreme weather and climate resilience Sam Longman, <i>Head of Sustainability and Corporate Environment, Transport for London and Deputy Chair, The London Climate Ready Partnership</i></p>	<p>16.30 PROJECT UPDATE High Speed Rail in Australia Graham Nelmes, <i>General Manager Customer, Place and Operations, High Speed Rail Authority</i></p>
<p>16.50 PANEL DISCUSSION Reporting and requirements around scope 3 emissions Moderated by: Georgia Gosse, <i>Principal, Infrastructure Advisory, Aurecon</i> Troy Harrison, <i>Manager Environment Strategy, Queensland Rail</i> Mamta Shetty, <i>ESG Principal, Pacific National</i> Dr Samuel Parsons, <i>Director Environment and Sustainability, V/Line Corporation</i></p>	<p>17.00 INTERNATIONAL ADDRESS Unlocking the Potential of High-Speed Rail Gaku Kawabe, <i>Vice President, High Speed Rail Platform, Alstom</i></p>
17.30 Closing remarks from the Chair	
17.35 End of Day One & Exhibition Networking Drinks	

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5-6 August 2024 | Sofitel Sydney Wentworth

CONNECT RAIL: CONFERENCE DAY TWO | Tuesday 6th August 2024

8.15 Registration and morning refreshments

CONCURRENT CONFERENCE STREAMS

RAIL DECARBONISATION	RAIL INFRASTRUCTURE
9.00 Welcome from Chair Jane Gillespie, <i>Rail Decarbonisation Leader</i>	9.00 Welcome from Chair
9.05 INTERNATIONAL KEYNOTE ADDRESS Building a sustainability legacy at City Rail Link Carolyn Cox, <i>Sustainability Manager Kaiwhakahaere Rauora, City Rail Link Ltd</i>	9.05 Securing the Future: Cybersecurity Innovations in Rail Transport Gursimran Tiwana, <i>Cybersecurity Manager, Alstom</i>
9.30 PANEL DISCUSSION Decarbonisation leaders-Strategic overview Moderated by: Jane Gillespie, <i>Rail Decarbonisation Leader</i> Brian Brennan, <i>Chief Executive Officer, Transdev Australia & New Zealand</i> Rob Ramsden, <i>Principal Energy, & Climate Change Capability, Rio Tinto</i> Joo Yin Ong, <i>Green Transport Leader, Trading & Transition, Energy Australia</i> Dean Newburn, <i>Regional Vice President Services - Asia Pacific, Wabtec Corporation</i>	9.30 Intelligent infrastructure Richard Tullo, <i>Director, Asset Management & Maintenance, Network Rail Consulting</i>
	9.55 Targeted sweating the railway assets to improve sustainability of railways with environmental impact Professor Ravi Ravitharan, <i>Director, Monash Institute of Railway Technology</i>
10.20 Networking and refreshment break	
10.50 Australia's pipeline to synthetic fuels in Rail Jane Gillespie, <i>Rail Decarbonisation Leader</i> Dr Amy Philbrook, <i>Hydrogen Technical Leader - Australasia, Arup</i>	10.50 Melbourne's bigger, better trains, more often Lisa Wetuschat, <i>Director HCS Rail Systems, Major Projects, Downer</i>
11.15 Green mobility in Australia - The long and winding road to net carbon zero Ian Shore, <i>Strategy & Innovation Director, Alstom</i>	11.15 Quantitative assessment of visibility of locomotives Dr. Elias Kassa, <i>Principal Track Engineer, Team Leader Track Infrastructure, Monash Institute of Railway Technology</i>
11.40 Can DME Save Diesel? Frank Szanto, <i>Technical Director - Rolling Stock, Jacobs</i>	11.40 Smarter, safer, innovation-led rail solutions for the future Naomi Dickinson, <i>Managing Director, Redding Consulting</i>
12.05 The diamond creek energy storage unit - Performance analysis Ian Cook, <i>Power Modelling Manager, Metro Trains Melbourne</i>	12.05 CBTC Journey Dr Frank Heibel, <i>Director, Doc Frank Rail Services</i>



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12.30 Lunch and networking break

13.30 **PANEL DISCUSSION** | Safety standards for new energy technology

Moderated by: *Dr Tim Kuypers, Board Member, RISSB*
Anitra Hobby, ESG Principal, Pacific National
Roger Buckley, Fleet Decarbonisation Manager, Aurizon
George Sfinas, Engagement Manager, Standards Australia

13.30 Pressure and airflow generated in Sydney Metro tunnels

Yael Bornstein, Manager Engineering, Sydney Metro Authority
Rod Sweeting, Principal Engineer, EngAnalysis

14.10 PTA WA-Developing our 2050 net zero transition plan

Dr Jim Altham, Sustainability Coordinator, Infrastructure Planning and Land Services, Public Transport Authority of Western Australia

13.55 Large language models for proactive fault detection and maintenance optimization

Dominic Abraham, Production Manager, Metro Trains Melbourne + Najmul Qureshi, Lead Data Scientist, Metro Trains Melbourne

14.35 **INTERNATIONAL KEYNOTE ADDRESS** | The European Green Deal

Keir Fitch, Head of Rail Safety and Interoperability Unit DG Mobility and Transport, European Commission

14.20 Assessing diesel rolling stock conversion for net zero operations?

Oliver Fong, Technical Director - Rolling Stock Lead, VIC, Mott MacDonald
Jayden Thomas, Rolling Stock Performance Engineer, Mott MacDonald

14.45 Networking and refreshment break

CONNECT RAIL PLENARY DAY TWO

15.20 **INDUSTRY SPOTLIGHT PANEL: THE CHANGE MAKERS, ADOPTERS + DRIVERS**

What new technologies can we expect in the next 20 years and how will we use them?

Collaboration in a time of rapid digital transformation

Pascal Dupond, Managing Director, Alstom Australia & New Zealand

Kerry Maidment-Groce, Head of Technology Capability - Safety & Systems, ARTC

Dr Christian Christodoulou, Chief Engineer, Transport for NSW

Naomi Dickinson, Managing Director, Redding Consulting

16.00 **KEYNOTE** | Pathways, projects and people: A trackside chat on what matters most

Ann Tomlinson, Founder, Alium Works & RISSB Industry Safety Professional of the Year Winner

Anne Moddero, Managing Director, Swietelsky Rail Australia & 2024 Women in Industry Excellence in Transport Winner

16.40 Next Generation Scholarship Presentations

16.50 RSSB's Sustainable Rail Blueprint: Delivering an industry-wide sustainability strategy for rail in Great Britain

Thom Rawson, Sustainable Rail Principal, RSSB UK

17.20 Closing remarks from the Chair

17.25 END OF CONFERENCE