



BEYOND 1% SUMMIT 2024
Accelerating digitalization for sustainability



AGENDA

Beyond 1% Summit

Day One: 3rd July 2024

Time	Session
9.00 - 9.45	Arrival and Registration
9.45 – 9.55	Summit Kick-off <i>MCs: Melissa Doyle AM - Journalist, TV Presenter, Author; and Jon Dee - Founder of Planet Ark and one of Australia's leading voices on sustainability</i>
9.55 - 10.30	Welcome: Beyond 1% - The Imperative and the Opportunity <i>Accelerating digitalization & technology for sustainability, and for business and economic growth</i> The three outcomes of accelerating digitalization across energy, industry and infrastructure that will set Australia on a path to economic strength by having a greater impact on decarbonizing the world. <i>Peter Halliday – CEO, Siemens Australia & New Zealand</i> <i>Steven Worrall – Managing Director, Microsoft ANZ</i>
10.30 - 10.40	Keynote from the Premier <i>New South Wales' holistic approach to achieving decarbonization and net zero.</i> <i>The Hon. Chris Minns, MP – Premier of New South Wales</i>
10.40 - 11.00	Plenary: Global Energy Transition <i>Digitalization: Key enabler for the energy transition</i> Global energy expert and CEO of Siemens' Electrification & Automation business, Stephan May, shares his international experience and learnings around the role of digitalization and technology in driving a more efficient energy transition. <i>Stephan May – Global CEO, Electrification & Automation for Smart Infrastructure, Siemens</i>
11.00 - 11.30	Morning tea
11.30 - 12.00	Expert Panel: Australia's Energy Transition <i>How efficient is Australia's energy transition and what role could greater digitalization play?</i>

	<p>A panel of high-profile speakers will demystify the challenges and opportunities with thought-provoking discussion and real examples.</p> <p><i>Stephan May – Global CEO, Electrification & Automation for Smart Infrastructure, Siemens</i></p> <p><i>Marc England, CEO, Ausgrid</i></p> <p><i>Professor Karen Hapgood, Deputy Vice-Chancellor - Research, Swinburne University of Technology</i></p> <p><i>Rod Henderson, Managing Director and CEO, Ampcontrol</i></p>
12.00 - 12.40	<p>Expert Panel: The Built Environment</p> <p><i>Embracing energy efficiency to ease the burden on BIG decarbonization targets</i></p> <p>Energy efficiency plays an increasingly important role in nations achieving their decarbonization commitments. At COP28, governments, including Australia’s, committed to double the global average annual rate of energy efficiency improvements by 2030. What does this look like? Where are the greatest opportunities? And what roles do digitalization and technology play as the key enablers?</p> <p><i>Luke Menzel, CEO of the Energy Efficiency Council</i></p> <p><i>Francesca Muskovic, National Policy Director, Property Council of Australia</i></p> <p><i>Dr. Georgia Hunter, Digital Services Centre - Smart Infrastructure, Siemens Australia & New Zealand</i></p> <p><i>James Roth, Sustainability Manager, University of Wollongong</i></p> <p><i>Lauren Streifer, CEO, Public Transport Association Australia New Zealand</i></p>
12.40 - 13.10	<p>Expert Panel: Industry</p> <p><i>Accelerating industrial innovation for global sustainability impact</i></p> <p>If we accelerate digitalization then we accelerate innovation. With the right lens, many innovations have broad sustainability benefits across entire sectors and supply chains. Reducing raw materials. Eliminating waste. Designing decarbonization from the start. Product life cycle and its relation to circular economy. Digital twins through to AI and more.</p> <p>This session will look at the potential role of Australian industry on decarbonizing the world beyond the 1% we have committed to with Net Zero 2050. We will look at the innovations and applications of technology making a big impact locally and globally.</p> <p><i>David Chuter, Executive Director, Industry Growth AusIndustry Division, Department of Industry, Science and Resources</i></p> <p><i>Innes Willox, Chief Executive, Australian Industry Group</i></p> <p><i>Rajat Kulshrestha, Co-founder & CEO, Space Machines Company</i></p> <p><i>Samantha Murray, Managing Director, Siemens Digital Industries Software, Australia and New Zealand</i></p>
13.10 – 13.15	Introduction to breakout sessions
13.15 - 14.15	Lunch
14.15 - 15.00	<p>Breakout Sessions – Round 1</p> <p>Five interactive breakout sessions covering technology and business topics with attendees to select one session to attend.</p> <p>Technology Streams</p> <ol style="list-style-type: none"> Digital Twins: Pioneering the Path to the Industrial Metaverse Renewable Energy Zones & Smart Grids: Enabling the Energy Transition Digitalization for Buildings & Infrastructure <p>Business Streams</p> <ol style="list-style-type: none"> Explore business funding and support mechanisms available in Australia Understanding carbon footprint legislation & reporting tools <p>See page 6 for more details on these Breakout Sessions</p>
15.00 – 15.10	Move to next breakout session

15.10 - 15.55	<p>Breakout Sessions – Round 2 (repeated)</p> <p>Five interactive breakout sessions covering technology and business topics with attendees to select one session to attend.</p> <p>Technology Streams</p> <ol style="list-style-type: none"> 1. Digital Twins: Pioneering the Path to the Industrial Metaverse 2. Renewable Energy Zones & Smart Grids: Enabling the Energy Transition 3. Digitalization for Buildings & Infrastructure <p>Business Streams</p> <ol style="list-style-type: none"> 4. Explore business funding and support mechanisms available in Australia 5. Understanding carbon footprint legislation & reporting tools
15.55 - 16.30	Afternoon tea
16.30 - 17.00	<p>Plenary Panel: Circular Economy</p> <p><i>Avoiding environmental disasters by turning waste streams into resource streams</i></p> <p>Circular economy principles and thinking are critical to achieving net zero. This plenary session will look at real examples and innovations to turn pending environmental and embedded carbon disasters into high-value opportunities in sectors such as healthcare, building and construction and even the renewables industry itself.</p> <p><i>Dr. Jill Freyne, Deputy Chief Scientist, CSIRO</i></p> <p><i>Jon Dee, Co-Founder of National Tree Day, One Tree Per Child, Planet Ark and Founder of National Recycling Week Smarter Futures</i></p> <p><i>Rob Gell AM B.SC (Hons) FRGS FEIANZ, Chief Sustainability Officer, Solar Recovery Corporation</i></p> <p><i>Professor Veena Sahajwalla, Director of Centre for Sustainable Materials Research & Technology, University of New South Wales and Hub Leader of Sustainable Communities and Waste Hub, National Environmental Science Program</i></p>
17.00 - 17.15	Day 1 Closing Remarks
17.15 - 19.00	<p>Networking Drinks</p> <p>Network with colleagues, stakeholders, customers and partners in and amongst a showcase of businesses and technologies at the heart of driving change.</p>
19.00 - 23.00	<p>Evening Gala Event</p> <p>An evening of celebration and entertainment where we recognise some of the great Beyond 1% examples already making an impact.</p>

Day Two: 4th July 2024

Time	Session
9:00 – 9:05	<p>Welcome to Day Two</p> <p><i>MCs: Melissa Doyle AM - Journalist, TV Presenter, Author; and Jon Dee - Founder of Planet Ark and one of Australia's leading voices on sustainability</i></p>
9.05 - 9.35	<p>Expert Panel: Innovation</p> <p><i>Taking Australian innovations to the world – how?</i></p> <p>Australia's export markets will be dramatically disrupted as the world transitions to a lower carbon future. Demand for fossil fuels will fade as the world heads to net zero. This leaves a multi-billion-dollar hole in Australia's exports that needs to be filled in order to keep a strong economy. Hopes are pinned on green hydrogen exports and the promise of cheaper local energy input prices for manufacturers – but what else and what can be done immediately?</p> <p>This session will look at real cases from Australia that are now international commercial successes. It will also bring together experts to outline some of the many paths available to make your commercial innovation a global commercial success.</p> <p><i>Dr. Brett Watson, Executive General Manager, Electrification & Automation, Siemens Australia & New Zealand</i></p> <p><i>Susan Kahwati, Head of Green Economy and AgriFood, Trade Division, Australian Trade and Investment Commission (Austrade)</i></p> <p><i>Neil O'Sullivan, Chairman, CEO and Group Managing Director of NOJA Power</i></p> <p><i>Paul Williams, Technical Director, Lowbake</i></p>
9.35 - 10.30	<p>Workshop: Practical Guide to Sustainability</p> <p><i>Transforming your business for success</i></p> <p>Facilitated by Jon Dee, this workshop is designed to help individuals and organisations understand their sustainability objectives. Jon will outline practical sustainability steps that businesses can take to reduce their operating costs and improve their bottom line and he will share the key tools, steps and secrets to making big changes happen.</p> <p><i>Jon Dee, Co-Founder of National Tree Day, One Tree Per Child, Planet Ark and Founder of National Recycling Week Smarter Futures</i></p>
10.30 – 10.40	<p><i>Introduction to the Federal Government's Sectoral Decarbonization Plans</i></p> <p>Last year, the Federal Government announced a strategy to develop sectoral decarbonization plans across key sectors. This session will explain what is happening and what these plans hope to achieve. Delegates will then have the opportunity to join the area most relevant to them and to learn about some of the key technology areas and case studies where decarbonization can be and is being achieved. The sessions will also capture some data and inputs to share with the federal government as they finalise their plans.</p> <p><i>Andrew Hutchinson, General Manager, Net Zero Taskforce, Australian Government Department of Climate Change, Energy the Environment and Water</i></p>
10.40 - 11.10	Morning tea
11.10 - 12.00	<p>Breakouts - Sectoral Decarbonization Plans</p> <ul style="list-style-type: none"> • Electricity and energy • Transport and transport infrastructure • Industry and resources

	<ul style="list-style-type: none"> The built environment <p>See page 8 for more details on these Breakout Sessions</p>
12.00 - 13.00	Lunch
13.00 – 13.30	<p>Expert Panel: There’s more to Hydrogen than Electrolysers</p> <p>Hydrogen is a critical part of the clean energy transition. This session will explore the challenges and opportunities in Australia both from production and usage perspectives and the technologies helping overcome some of these challenges.</p> <p>A range of experts working in the hydrogen economy will share their knowledge and experience to help us understand the true opportunities of hydrogen from local and global perspectives.</p> <p><i>Stephan May – Global CEO, Electrification & Automation for Smart Infrastructure, Siemens</i> <i>Florence Lindhaus, Head of Hydrogen and Energy, German-Australian Chamber of Industry and Commerce</i> <i>Dave Hodgson, CEO, Paladin Group</i> <i>Brett Singh, CEO, Marathon Development Group</i></p>
13.30 - 14.00	<p>Expert Panel: What does Cybersecurity have to do with Sustainability?</p> <p>We often think of cybersecurity as an attack on our personal data and it being the problem of the IT department to resolve.</p> <p>However, this session instead will take a look at cyber security of critical infrastructure and the very real connection between cybersecurity, digitalization and the impact on achieving decarbonization targets.</p> <p><i>Jeremy Hulse, Executive General Manager – Cybersecurity, SAGE Group</i> <i>Alex Fuerschke, Senior Manager - Building Technology, Dexus</i></p>
14.00 – 14.30	<p>Expert Panel: Artificial Intelligence (AI)</p> <p>AI gives industry unparalleled opportunities in digitalization, data driven decision-making and innovation. It can play a significant role in sustainability. But where do we stand on testing, transparency and secure future-planning with AI?</p> <p><i>Dr. Jill Freyne, Deputy Chief Scientist, CSIRO</i> <i>Hanno Blankenstein, Co-founder and CEO, Unleash live</i> <i>Walter Meyler, CEO, Automation Innovation</i> <i>Jose Moreira, General Manager, Grid Software, Siemens Australia & New Zealand</i></p>
14.30 – 14.40	Closing Remarks
14.40 – 15.00	Conference concludes – coffee in networking area

This agenda is current as of 30th June 2024. Session times and topics may be subject to change.

Day One: Breakout Sessions

Technology and Business Streams

Five interactive breakout sessions covering technology and business topics. These sessions are repeated twice.

Digital Twins: Pioneering the Path to the Industrial Metaverse

This session explores how the current state of digital twin technology enables boundless sustainable possibilities for the future. Local case studies provide a glimpse into what lies ahead in the Industrial Metaverse – a journey that has just begun.

Facilitated by Leila Azizi, Application Engineer – Digital Industries, Siemens Australia & New Zealand

Darryl Kaufmann, Executive General Manager – Digital Industries, Siemens Australia & New Zealand

Matt Hill – CEO, Hypersonix

Walter Meyler – Managing Director, Automation Innovation

Renewable Energy Zones & Smart Grids: Enabling the Energy Transition

This session will explore two hot topics vital Australia’s energy transition: Renewable Energy Zones (REZs) and technology underpinning smart grids. Learn more about the importance of REZs, their role as a planning tool to match transmission and demand, as well the challenges and opportunities facing local market operators. This session will also deep-dive into the microgrid technology that will support our future energy system.

Facilitated by Jose Moreira, General Manager, Grid Software, Siemens Australia and New Zealand

Large Scale Renewable Integration Challenges

- *Prof. Tapan Saha, Leader UQ Solar, Leader of UQ Industry 4.0 Energy TestLab & Founding Director Australasian Transformer Innovation Center, University of Queensland*
- *Prof. Richard Yan, School of Electrical Engineering and Computer Science, University of Queensland*

Empowering Hybrid Power Plants and Microgrids with Siemens Control Solutions

- *Musa Chibowora, System Engineering Manager – Smart Infrastructure Electrification & Automation, Siemens*
- *Muhammad Wasiaq Ghani, Portfolio Consulting Professional – Smart Infrastructure Electrification & Automation, Siemens*

Global Experiences on Accelerating Transmission and Renewables Integration

Ricardo Da Silva, Network Development Manager - Australia, Iberdrola

Followed by Audience Q&A

Digitalization for Buildings & Infrastructure

Data-driven decision-making in built environment for long-term sustainability.

Going beyond smart connected buildings to autonomous building – how do we optimise technology for future, considering comfort of people? What does this mean: more AI for forecasting and support, data driven decision making, more transparency? The last few years we’ve connected more buildings than ever. Data is all around us, so optimisation is the next frontier, as are AI and copilot.

Panel discussion to be facilitated by Lars Weber, Siemens Australia & New Zealand. Speakers include:

- *Abbas Bigdeli, CEO, Aervision*
- *Paul Crothers, Country Manager – Australia, Bueno Systems*
- *David Horseman, Strategic Asset Management Services Manager, Brightly*

Explore business funding and support mechanisms available in Australia

Gain valuable insights into various avenues for financial assistance and resources available for SMEs in Australia.

Facilitated by Keith Ritchie, Head of Communications and Government Affairs, Siemens Australia and New Zealand

David Chuter, Executive Director, Industry Growth AusIndustry Division, Department of Industry, Science and Resources

Louise McGrath – Head of Industry Development and Policy, AiGroup

Professor Lisa Wilson, Global Head of Strategic Partnerships, Green Bond Corporation

Understanding carbon footprint legislation & reporting tools

Understanding how mandatory climate reporting will impact your business and discover some of the tools available to estimate and measure impact of improvement actions on your carbon footprint.

Facilitated by Holly Taylor, Director, Australian Institute of Energy

Milan Bawa, General Manager – Factory Automation and Motion Control, Siemens Australia and New Zealand

Shine Salur, Industry, Development Director, Brightly

Noah Wanyonyi, Sales Engineer, Siemens Australia and New Zealand

Ajit Padbidri, Associate Director, Climate Strategies APAC, South Pole

Day Two: Breakout Sessions

Sectoral Decarbonization Plans

Electricity and energy

This session will focus on the energy and electricity sector, providing an overview on market conditions followed by case studies which highlight the technology that is contributing to the decarbonization of our energy sector. The session will conclude with a facilitated Q&A discussion with the audience.

Facilitated by Asad Khan, Segment Manager - Electrification & Automation, Siemens Australia & New Zealand

Overview of Australia's Energy Sector

Prof. Mehdi Seyedmahmoudian, Swinburne University of Technology

Case Study: Implementing SF₆-free switchgear

Asad Khan, Segment Manager - Electrification & Automation, Siemens Australia & New Zealand

Brett Hawkeswood, Head of Engineering, Ausgrid

Case Study: Endeavour Energy's first digital substation

Raymond Robinson, Secondary Systems Manager, Endeavour Energy

Kyle Malvern, Development Specialist - Secondary Systems, Endeavour Energy

Followed by Audience Q&A

Transport and transport infrastructure

This session will focus on the transport and transport infrastructure sector, providing an overview on market conditions followed by case studies which highlight the technology that is contributing to the decarbonization of our transport sector. The session will conclude with a facilitated discussion with the audience, providing input on the Government's sectoral decarbonization plan.

Sita Brown, Head of Strategy, Siemens Australia and New Zealand

Shine Salur, Industry Development Director, Brightly

Dr Gokul Sidarth Thirunavukkarasu, Swinburne University of Technology

Peter Ball, General Manager, eMobility, Siemens Australia & New Zealand

Paul Markwick, Head of Transport and Addinsight, SAGE Group

Industry and resources

This session will focus on the industry and resources sectors, providing an overview of market conditions, emerging trends and opportunities. It is followed by case studies which highlight the technology that is contributing to decarbonizing these sectors. The session will conclude with a facilitated Q&A discussion with the audience.

Milan Bawa, General Manager – Digital Industries Factory Automation and Motion Control, Siemens

Paul Williams, Technical Director, Lowbake

Sam Stafford, Founder, CEO and Principal Consultant, IoTics

The built environment

This session will focus on decarbonising buildings, making them more efficient and will touch on the following topics:

- Embodied carbon – The whole of lifecycle view, including disposing and circularity of products.
- Building operations – 80% of total lifecycle costs happen in operations phase. So how do we make operations more sustainable?

Panel discussion to be facilitated by Alistair Fraser, Siemens Australia & New Zealand. Speakers include:

- *Vishant Narayan, Managing Director, Ashbridge Real Assets*
- *Michael Williams, Product Engineering Principal, Telstra InfraCo*
- *Brennan Piper, Principal Technology Advisor, Mott MacDonald*

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