# Siemens in Australia & the Pacific Region

2025



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# Contents






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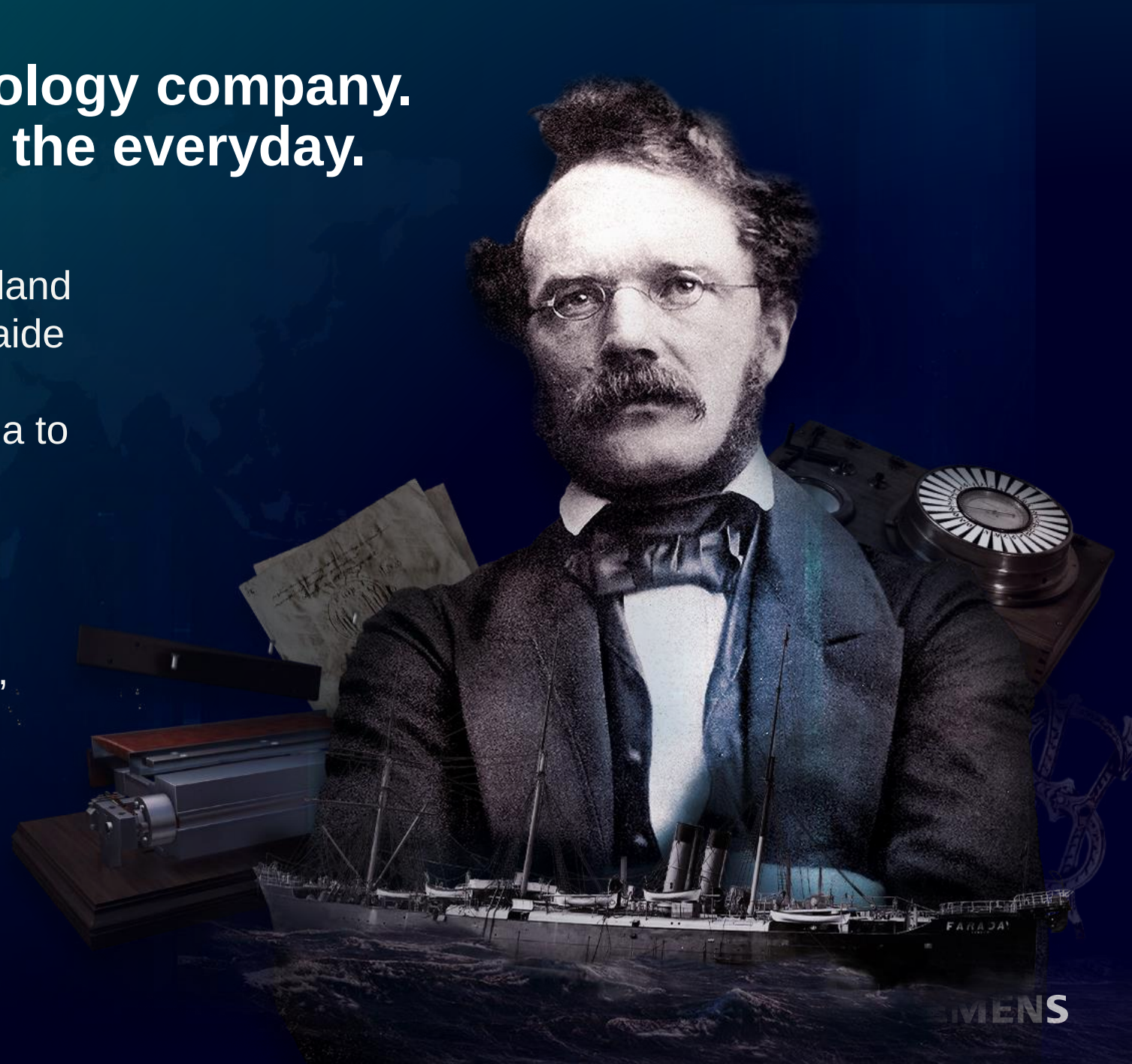
# Siemens is a leading technology company. Our technology transforms the everyday.

Our operations in Australia and New Zealand began over 150 years ago, with the Adelaide to Darwin Overland Telegraph Line that transformed communication from Australia to the world.

Today, we combine the real and digital worlds to accelerate the sustainable transformation of industries, energy grids, transportation and buildings.



BEYOND 1%

Accelerating digitalization for sustainability


“Accelerating digitalization and technology is the key to accelerating sustainability.

Australia and New Zealand are responsible for around 1% of global emissions. The energy transition, greenhouse gas reduction commitments and Net Zero by 2050 are designed to address just that 1% of emissions.

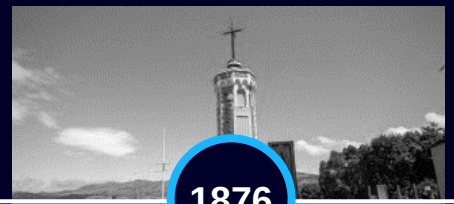
We believe this region could play an even bigger part in decarbonizing the world beyond 1%.

By accelerating digitalization and technology we improve the energy transition, we enable energy efficiency, and we accelerate industrial innovation. The result is better jobs, better business, a stronger economy and a greater impact on the world from Australia and New Zealand.”

**Peter Halliday**
CEO, Siemens Australia & New Zealand

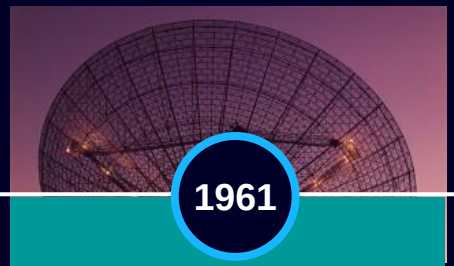
# A snapshot of our history in Australia and New Zealand

**1872** — First telegraph line from Darwin to Adelaide



**1876** — Time ball for New Zealand sailors

**1893** — Australia's first electric streetcar in Tasmania



**1961** — Electrical control for the Parkes Radio Telescope

**1977** — Lights for the first night World Series Cricket match

**1989** — Automation & power for the ANZAC class frigates

**1995** — World's first filmless paediatric imaging in NSW

**2003** — Trains and trams for the Melbourne network

**2006** — Automation for key water infrastructure in WA

**2015** — Energy efficiency upgrades at the MCG

**2017** — Energy efficiency for Museums Victoria


**2018** — End-to-end digitalization for Dulux Australia

**2019** — Rocket Lab use software for space satellites


**2022** — Turnkey metro train system order for Sydney

**2023** — Sustainable switchgear for Ausgrid

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# We empower our customers to become more competitive, resilient, and sustainable

FY 2024

**312,000**

Employees[1,2]

**A$122.5 bn**

Revenue[3]

**A$135.8 bn**

Orders[3]

**A$14.5 bn**

Net income[3, 4]

**15.5%**

Profit margin
Industrial Business

**A$15.3 bn**

Free Cash Flow[3, 4]

**1** As of September 30, 2024 | **2** Continuing operations | 3 Converted to AUD I **4** Continuing and discontinued operations




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# With a footprint across Australia & New Zealand, we're a local partner where you need it most.

**2,200**

employees in the Pacific region

**A$1.8 bn**

worth of technology supplied to the local market in new orders

**A$1 bn**

of equity and debt commitments to support local businesses, public and private infrastructure

All figures as of September 30, 2024, inclusive of Siemens Mobility, Siemens Healthineers and Brightly Software. Figures exclude Siemens Energy & Siemens Gamesa.

# Technology to Transform **the Everyday**




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# Digital transformation has the potential to drive progress and growth and reduce resource consumption in all countries

## Industry

Up to **50% material savings** can be realized using digital twins and innovative production technologies such as additive manufacturing.

## Infrastructure

**Buildings** are currently responsible for **39% of global energy related carbon emissions**. Data analytics and automated building management can unlock large saving potentials.

## Mobility

Up to **30% higher network capacity** can be achieved through automatic train operation and by optimizing train flows and rail operations.



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# R&D Investment and Focus

**Siemens R&D**
(FY 2024)

**A$10.2 bn**


stringent investments
in future growth fields

- **Company Core Technologies**
- **Cybersecurity & Trust**
- **Integrated Circuits & Electronics**
- **Software Systems & Processes**
- **Advanced Manufacturing & Circularity**
- **Data Analytics & Artificial Intelligence**
- **Power Electronics**
- **Sustainable Energy & Infrastructure**
- **Connectivity & Edge**
- **Future of Automation**
- **Simulation & Digital Twin**
- **User Experience**




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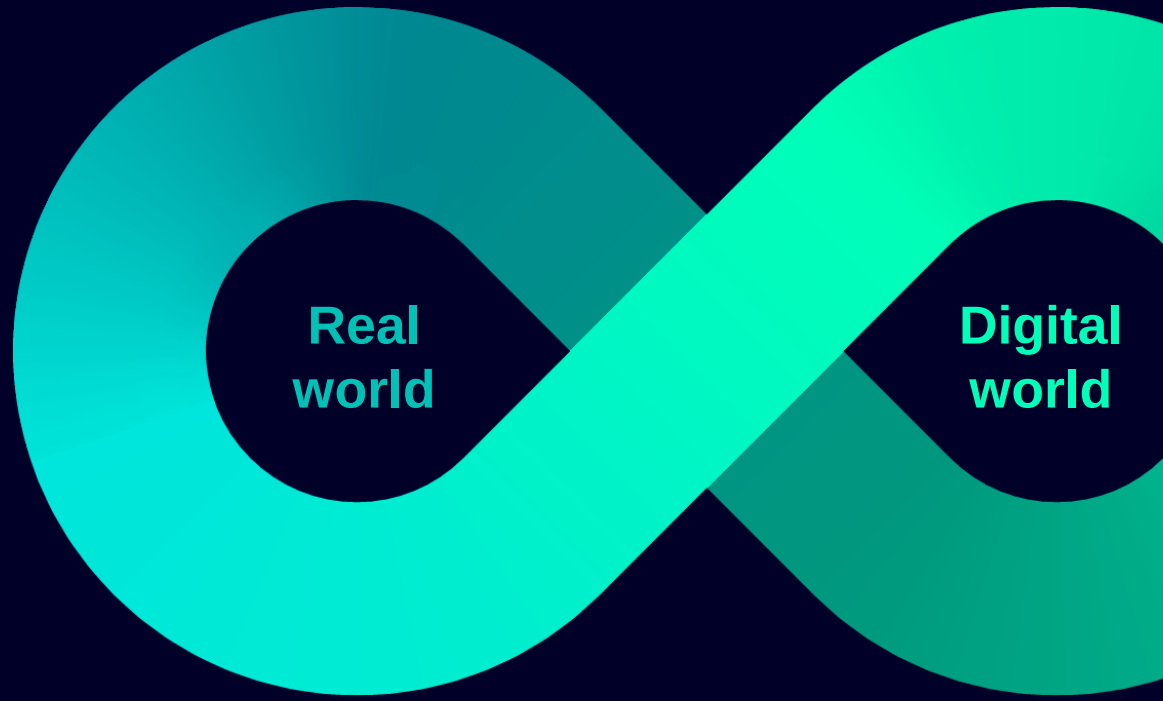
# By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformation across a range of industries…

- Glass Production
- Pharma-ceutical Industry
- Campus
- Tire Industry
- Mining Industry
- Cement
- Transpor-tation and Logistics
- Panel Building
- Wind Energy
- Pulp and Paper
- Life Science
- Healthcare
- Oil and Gas Industry
- Automotive Manu-facturing
- Airports
- Electronics Industry
- Semi-conductors
- Data Centers
- Machinery and Plant Production
- Food and Beverage
- Water and Wastewater Industry
- Chemical Industry
- Municipalities and DSOs
- Cranes
- Intralogistics
- Aerospace
- Battery Manu-facturing







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# We have set four strategic priorities that guide our mindset, behaviors and actions

## Customer impact

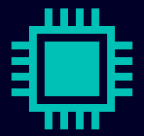
**We think and act customer first**

Everything we do is motivated by creating more impact for our customers and accelerating their digitalization and sustainability journey.

## Technology with purpose

**Solving real-world problems**

For more than 175 years, Siemens has been developing technology with purpose.



## Empowered people

**Better and faster decisions**

We are driving progress by empowering our people to take decisions in the best interest of the company.

## Growth mindset

**Try, learn, improve**

We think about the businesses of tomorrow as well as today, always exploring what's possible to expand our technology leadership.

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# Transforming the everyday to create a sustainable **tomorrow**




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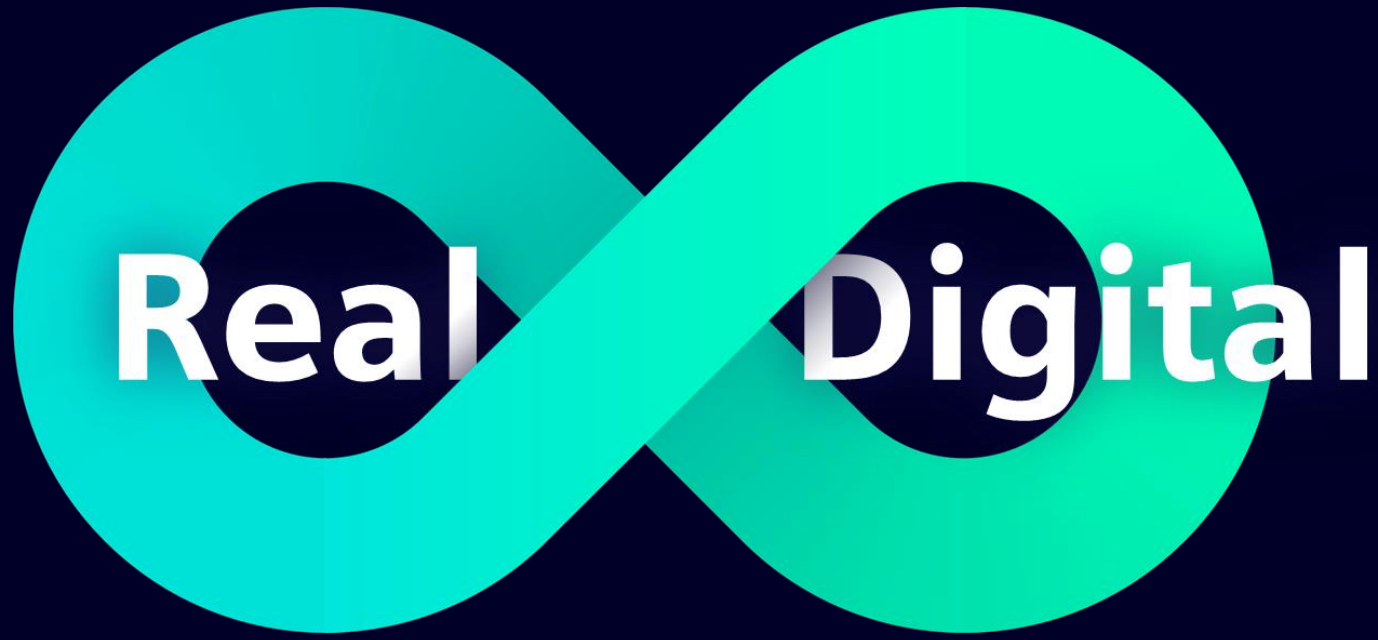
# Technology drives sustainability

We combine the real and digital worlds to make our customers more competitive, resilient and more sustainable.



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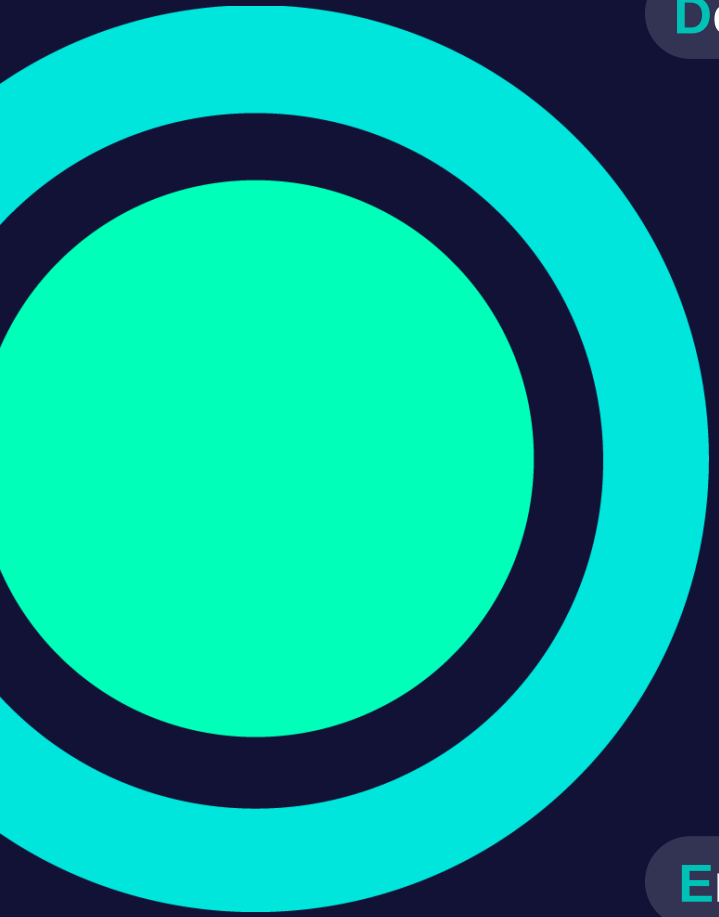
# Our DEGREE sustainability framework



**Decarbonization** Support the 1.5°C target to fight global warming

**Ethics** Foster a culture of trust, adhere to ethical standards, and handle data with care

**Governance** Apply state-of-the-art systems for effective and responsible business conduct

**Resource efficiency** Achieve circularity, dematerialize, and conserve biodiversity

**Equity** Foster diversity, equity, inclusion, and community development to create a sense of belonging

**Employability** Enable people to stay resilient and relevant in a permanently changing environment

A 360° approach to our core sustainability values

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# Key sustainability highlights

**Siemens AG**

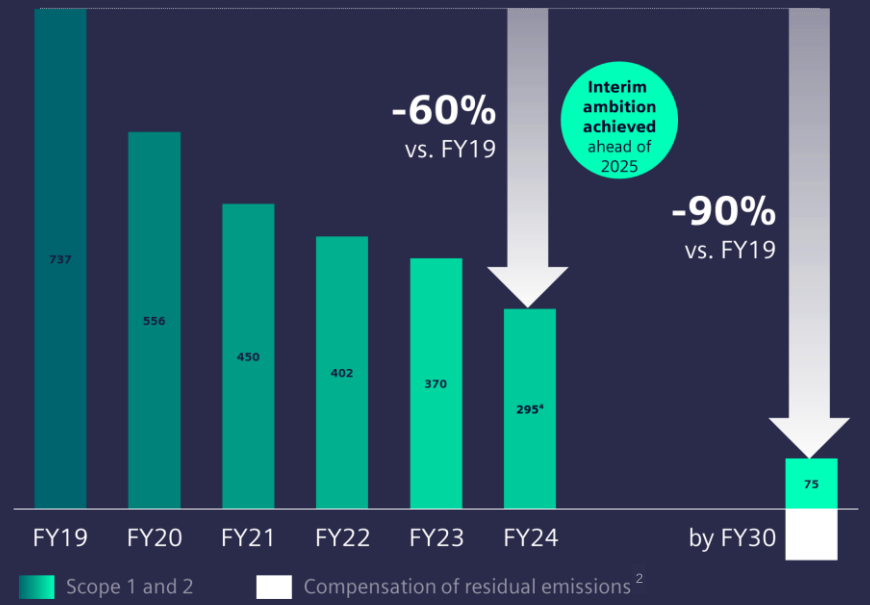
## ↓60%

Reduction in our Scope 1 and 2 emissions

We achieved our interim ambition of 55% reduction achieved ahead of target year 2025 and on track to reach 90% by FY30.

In addition, we've achieved 7 out of our 14 DEGREE ambitions ahead of target year 2025.

**$CO_2$ footprint in own operations[1]**




## ↓144 Mt $CO_2e$

We enable our customers to avoid more emissions than caused along our entire value chain

## Top 1%

of all companies assessed by EcoVadis for sustainability (Platinum medal awarded)

## More than 90%

of our business enables sustainability impact for our customers

1 Siemens without SHS, in 1,000 metric tons of $CO_2e$ l 2 With high-quality carbon offsets

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# Siemens' strategic sustainability partnerships and commitments
Driving towards standardization and sustainable outcomes at scale

## Environment and climate

- Science Based Targets initiative: Pledge to limit global warming to 1.5°C
- The Climate Group: Climate Week NYC, EV100, EP100, RE100 initiatives
- United Nations: Conference of the Parties, Global Compact Working Group on Climate
- U.S. Department of Energy: Better Buildings initiative
- The World Bank Carbon Pricing Leadership Coalition
- The World Economic Forum: Alliance of CEO Climate Leaders, Clean Power, Grids and Electrification, Circular Transformation of Industries, Global Future Council on the Future of Advanced Manufacturing and Value Chains
- The European Union Business and Biodiversity Platform
- The European Union Circular Plastics Alliance Declaration
- The Federation of German Industries Circular Economy Initiative
- Responsible Minerals Initiative

## Social

- International Bill of Human Rights
- United Nations: Guiding Principles on Business and Human Rights, Global Compact Women's Empowerment Principles, European Working Group on Business and Human Rights
- OECD Due Diligence Guidance for Responsible Chains of Minerals from Conflict-Affected and High-Risk Areas
- G7 and the International Labour Organization, e.g. Declaration on Fundamental Principles and Rights at Work, Vision Zero Fund
- The World Economic Forum: AI Governance Alliance, Chief Diversity and Inclusion Officers, Chief Health Officer Group, Chief Learning Officers
- The European Union Agency for Safety and Health at Work
- Global Business Initiative on Human Rights
- The International Organization of Employers Global Occupational and Health Network
- Healthy Workplaces Lighten the Load
- One Young World
- Charter of Trust

## Governance

- United Nations Agenda 2030, including 17 Sustainable Development Goals
- 10 Principles of UN Global Compact, UN Convention against Corruption
- OECD Guidelines for Multinational Enterprises
- OECD Anti-Bribery Convention
- The World Business Council for Sustainable Development

GRI — Limited Assurance in line with Global Reporting Initiative

CDP — Reporting in line with CDP

**Disclosure**
Support for World Economic Forum Intl. Business Council (IBC) Measuring Stakeholder Capitalism

TCFD — Supporting the Task Force on Climate related Financial Disclosures

SASB — Mapping acc. to Sustainability Accounting Standards Board



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# Scaling sustainability impact

**>90%**

of Siemens' business enables customers to achieve a positive sustainability impact*

**By combining the real and the digital worlds,** we support our customers along key impact areas.

**Decarbonization & energy efficiency**

**Resource efficiency & circularity**

**People centricity & societal impact**

*Calculation based on revenue. <10% is excluded as it relates to products that contain SF6-gas, or stems from business with sectors like oil and gas, coal mining, or coal power generation. We anticipate reducing this number over time. Applies to Siemens without Siemens Healthineers.



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# For the first time Siemens enables customers to avoid more emissions than caused along our entire value chain

Scope 1, 2 & 3 Emissions[1]

**121 Mt $CO_2e$**

Scope 1 & 2

**0.4 Mt $CO_2e$**

Positive Customer Avoided Emissions[2, 3]

**144 Mt $CO_2e$**

**Committed to reducing our footprint with science-based net-zero targets**

- -90% in Scope 1 & 2 and -30% in Scope 3 by FY2030 from FY2019 base year
- Reach net-zero $CO_2e$ across the value chain by FY2050

**Enabling customers to avoid emissions via our portfolio's impact on**

- Energy efficiency
- Electrification
- Renewable energy

1 121 Mt $CO_2e$ represent Siemens Scope 1, 2 and 3 emissions, whereby Scope 3 downstream emissions exclude Innomotics

2 Numbers showing Siemens without Innomotics as Innomotics was sold on October 1st, 2024

3 $CO_2e$ impact (saved or avoided emissions) at customers compared to reference solution. Accounting for avoided emissions of offerings sold in reporting year over their entire use phase




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# Our portfolio's contribution to decarbonization
## Enabling customers to avoid emissions

### Customer Avoided Emissions

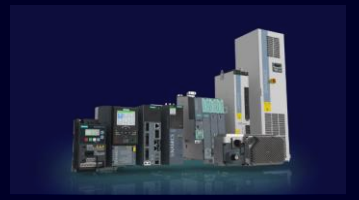
**144**

million metric tons of
**$CO_2e$ avoided emissions**
through Siemens
offerings sold in FY24[1]

Positive $CO_2e$ impact (saved or avoided emissions) at customers compared to reference solution.

### Impact Examples

Energy Efficiency: Digital industries enables up to 60% energy savings in the overall production system by offering energy-efficient drive components



Electrification & Energy Efficiency: Siemens Mobility enables ~18,5 megatons of $CO_2e$ of Customer Avoided Emissions over the lifetime of electric locomotives delivered in FY24


Renewable Energy: ~8 Mt $CO_2e$ of Customer Avoided Emissions achieved through Smart Infrastructure, Digital Industries, and Siemens Financial Services, supporting the enablement, expansion and use of additional renewable electricity globally

### Calculation methodology

Siemens' proprietary methodology aligned with GHG Protocol Scope 3 use phase reporting: Accounting for avoided emissions of offerings sold in reporting year over their entire use phase

Accounting for both product-level and system-level decarbonization effects.

Avoided emissions methodological updates in FY24:

- Dynamic emissions factors consider grid decarbonization over time
- Expanded methodology to capture Customer Avoided Emissions across three levers: energy efficiency, electrification, increase in renewable energy

Main contributors include, e.g. frequency converters, building systems, railbound passenger, and freight transportation as well as electrification and automation offerings

1 Numbers showing Siemens without Innomotics as Innomotics was sold on October 1st, 2024

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BEYOND 1%

Accelerating digitalization for sustainability




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SIEMENS XCELERATOR

# Understanding Siemens Xcelerator Beyond 1%

Australia generates about 1% of the world's emissions. The energy transition, net zero target and decarbonization targets will address that 1%. **But can we do more?**

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Accelerating digitalization for sustainability

Accelerate Digitalization & Technology

1 Improves the Energy transition

- Improved decisions
- Avoid unintended consequences

2 Drives Energy Efficiency

- Eases the burden on big decarbonization targets
- Reduces costs

3 Enables Industrial Innovation

- Solve global problems from this region
- New business/economic opportunities

The result is better outcomes for business, society and the environment

*Requires ecosystem of like-minded partners*




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# Australia’s legislated commitments: **This won’t be easy!**

| | |
|---|---|
| **2030** | **43%** reduction in emissions |
| **2030** | **82%** renewable energy |
| **2050** | **Net Zero** |



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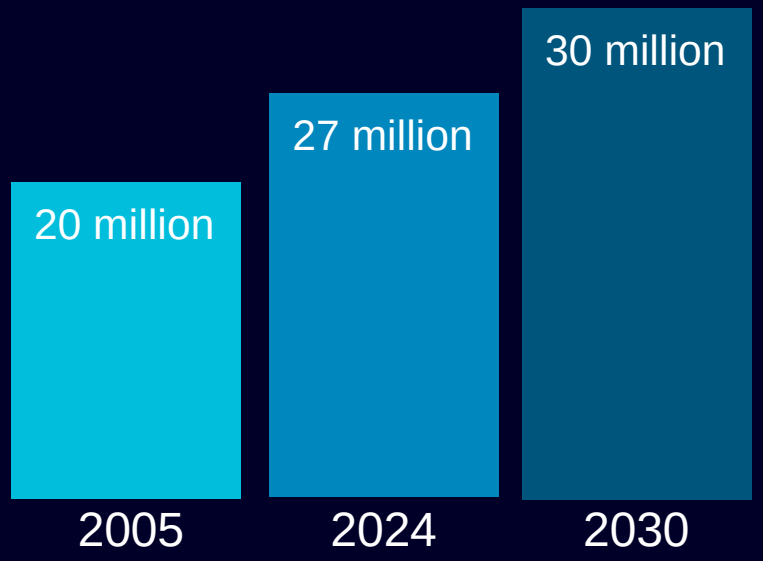
## Population increase by 50%




## NET ZERO AUSTRALIA

"Australia will need to **triple** the National Electricity Market's power capacity by 2030 to be on track for net zero by 2050."

*April 2023*

**"…storage needs to expand by a factor of 30 by 2050."**

Daniel Westerman
CEO, AEMO

In April 2023, the Minister for Climate Change & Energy highlighted the magnitude of the challenge, saying that to meet our 2030 targets, we need to install:

- 22,000 500W (solar) panels every day
- 40 x 7 MW wind turbines every month
- 10,000 km of new transmission lines

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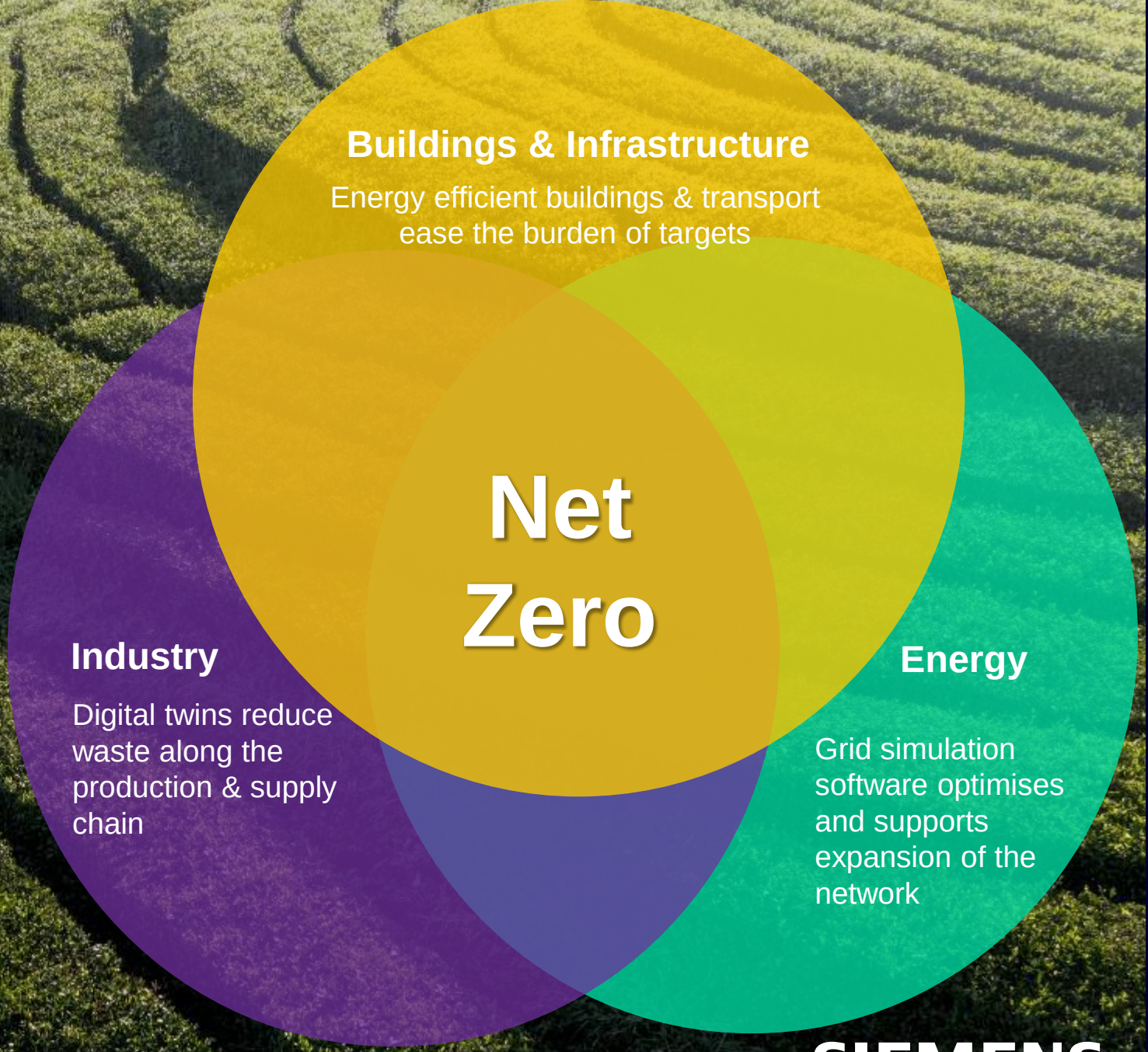
# So how do we ease the burden?

There are many paths to Net Zero…

Accelerating digitalization is key.







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**Digitalization and automation logistics infrastructure supporting Australia's journey to Net Zero:**

- Replaced **800** trucks with a single train wagon
- **450** diesel trucks off the road each day

Beyond 1% Example

# Patrick Terminals Sydney
## Port of the Future

- Automated rail gantry cranes
- 1st time in the world where the operation has been fully automated
- Fastest and most efficient terminal in the country
- Allows capacity to increase from 150,000 containers to 500,000 containers per year




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Beyond 1% Example

# Siemens Swinburne Energy Transition Hub

- Most advanced energy grid simulation hub of its kind in Australia
- $5.2 million hub features some of the world's most advanced energy software
- The Hub simulates digital twin of Australia's energy grid, enabling future energy scenarios mapping

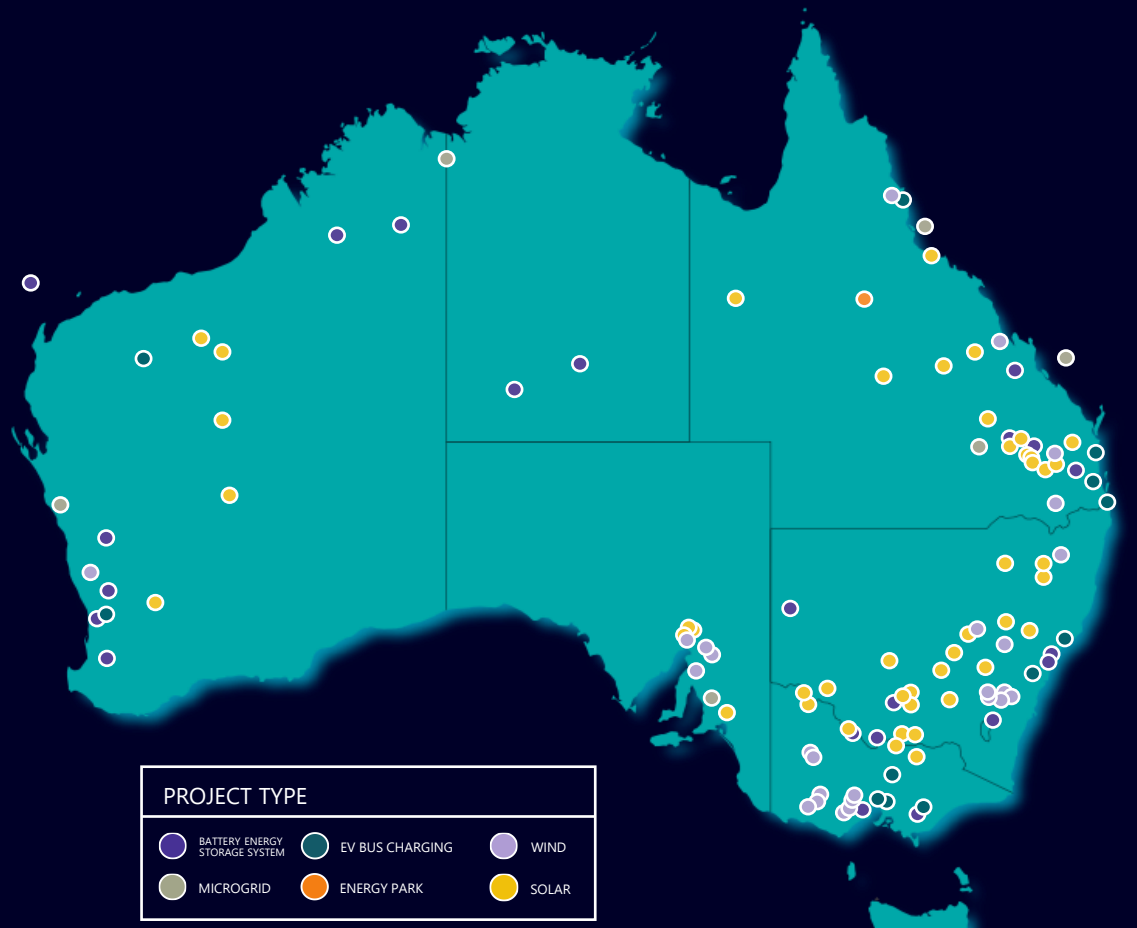

"By expanding and modernising our grid, we will enable cheaper, more reliable renewable energy to be delivered."

Hon. Lily D'Ambrosio
Victorian Minister for Energy & Resources

# Siemens technology directly supports Australia's energy transition


Our medium voltage energy technology is embedded in the Hornsdale wind farm in South Australia.


Siemens eBus chargers help Seymour Passenger Services run an all-electric bus fleet in Victoria.



# Making the switch from $SF_6$

## Sustainability in gas-insulated switchgear

Ausgrid is the first in Australia to install Siemens' blue gas insulated medium voltage switchgear.

It uses climate-neutral 'clean air' instead of $SF_6$.

Commonly used in industry, fluorinated greenhouse gases (F-gases) have high global warming potential. The $SF_6$ variant that is traditionally used in insulation products has about 25,200 times the impact of $CO_2$ on global warming.

**1 kilo of $SF_6$ = 25,200 kilos of $CO_2$**

# How does Australia go Beyond 1%?

Accelerating digitalization also accelerates **innovation.**

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# Bottling **Artificial Intelligence** for Sustainability

## Robot laser cleaning system for glass moulds

- AI maps path for laser in two seconds, compared with up to two days when mapped by an expert programmer without AI.
- Eliminates supply chain emissions (no chemicals or ceramic beads).
- Reduces energy used on site by 30%.


**This one innovation has the potential to:**

- Reduce raw materials waste globally by 700,000 tonnes per year.
- This could result in over 1 billion kg less C02 in the world each year.

# Fires emit more $CO_2$ than global road, rail, shipping & air transport combined.

# Local **innovations** are making a difference…

Siemens Fusesaver™ is an Australian innovation, exported to over 30 countries. It's the **world's fastest** medium voltage vacuum circuit breaker.

Power is interrupted before an arc can occur, significantly mitigating the potential to ignite a fire.



World's first fully automated fire-retardant loading system for aircrafts.

The system has sped up loading time by around 50%, which means getting more planes in the air, fighting fires, faster.

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BEYOND 1%

Accelerating digitalization for sustainability



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## Reference Projects

# Our technology helps **local companies** do amazing things.




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**Reduced emissions by**

**67.5%**

## Powering Carbon Neutrality

# Riverside Centre

Ashbridge Capital's Riverside Centre in Adelaide, originally built in 1987, has been transformed into a **carbon-neutral** building with a 5.5 Star NABERS rating.

Siemens technology has helped the A-grade building:

- reduce electricity costs by **50%**
- **re**duce energy consumption by **40%**
- reduce emissions by **67.5%**

"We basically hit every goal we wanted to and outperformed on energy performance by 250%."

Vishant Narayan, Founder and Managing Director of Ashbridge Capital

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## Energy savings

# Telstra InfraCo

Deploying our demand flow solution into its primary exchanges has helped Telstra InfraCo realize around **20% energy savings** on its chilled water-cooling systems**,** reduced emissions, and reduced cost.

Leveraging efficient cooling technology is crucial in supporting Telstra InfraCo's ambitions to reduce emissions by **70%** between 2019 and 2030.

**4K**

**megawatt hours**

Reduction of around 4,000 megawatt hours of energy annually.

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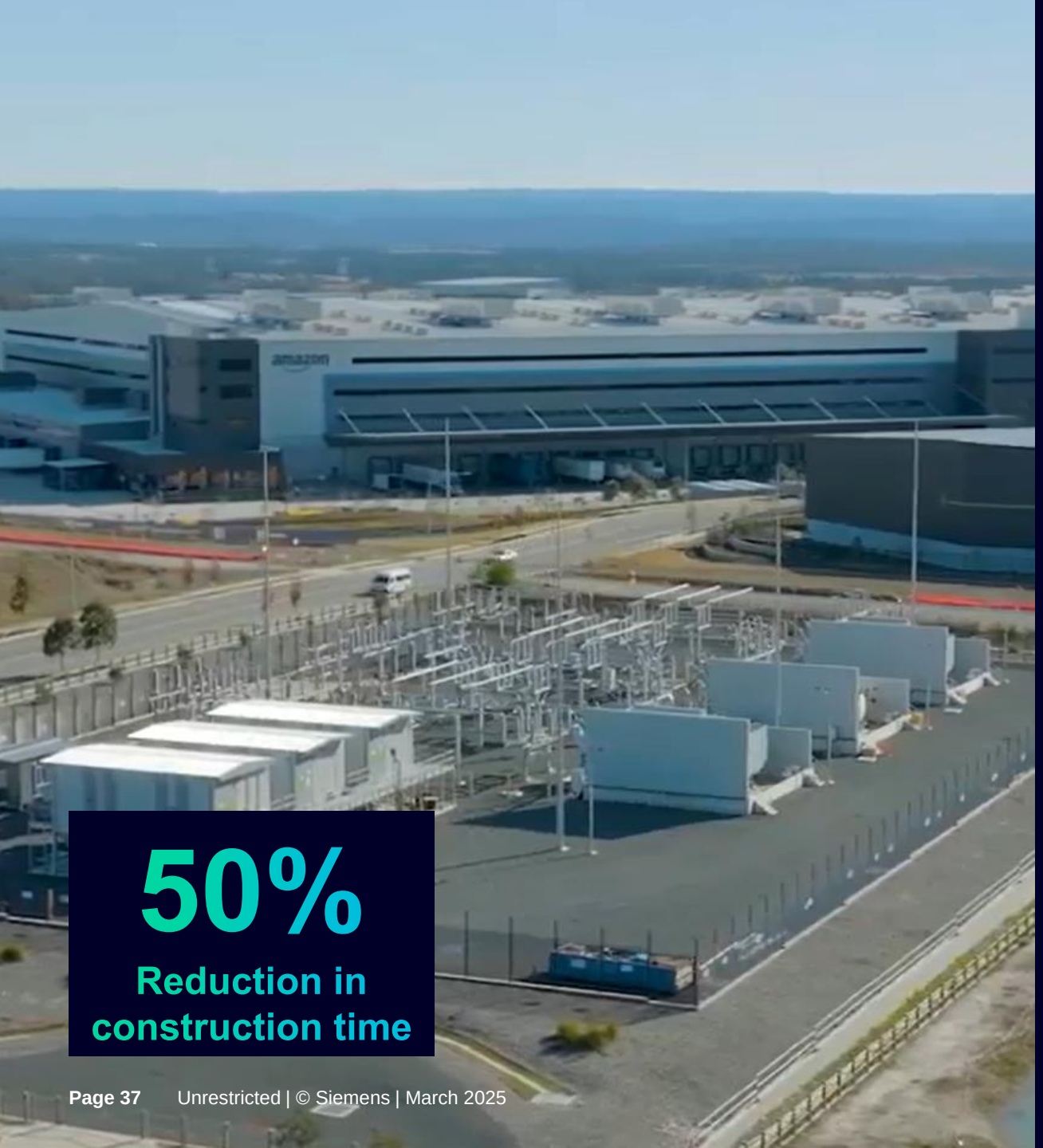


## Shaping the future of digital substations

# Endeavour Energy

Partnering with Siemens, Endeavour Energy, who supply power to over 2.7 million people, has built its first digital substation at South Erskine Park, incorporating digital protection and control to achieve:

- **30%** savings on overall project costs
- **50%** reduction in construction time
- **90%** reduction in copper cabling

Digital substations can help reshape the energy industry by delivering impressive cost savings, reducing environmental impacts, and accelerating project timelines, ultimately increasing sustainability.




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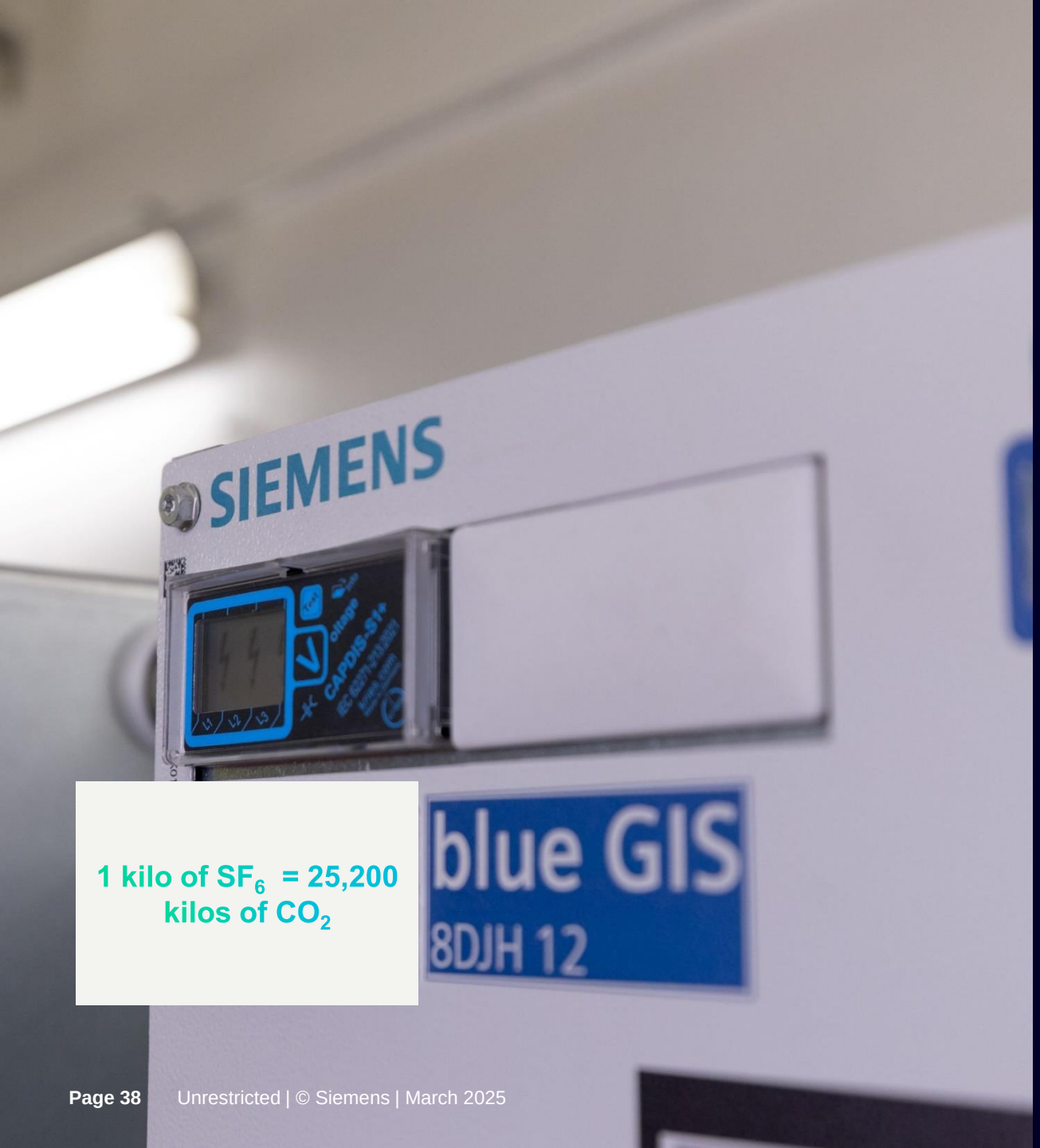


1 kilo of $SF_6$ = 25,200 kilos of $CO_2$

## Sustainable switchgear

# Ausgrid

Ausgrid is the largest distributor of electricity on Australia's east coast. It is also the **first in Australia** to install our innovative 'blue' Gas Insulated Switchgear (GIS).

Blue GIS uses climate-neutral 'clean air' to replace $SF_6$ gas. $SF_6$ is the most potent greenhouse gas and has about **25,200** times the impact of $CO_2$ on global warming.

"Every step towards net zero is important, and the positive impact of the electricity industry moving away from damaging $SF_6$ cannot be understated."

Craig Wilson, Ausgrid Sustainability Manager




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## Energy efficiency

# Melbourne Cricket Ground

"In the seven-year period of the energy performance contract with Siemens, we've saved over **A$5 million** in energy costs and reduced greenhouse gas emissions by a colossal **50,089 tonnes** of $CO_2$."

Stuart Fox, CEO,
Melbourne Cricket Club




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## Transforming mobility in

# Western Sydney

A new 23 km metro railway with six stations and 12 driverless 3-car metro trains will be the **first** rail project in Australia committed to be certified **carbon neutral**.

The city-shaping project will improve access to the new Bradfield City Centre, which will create around **200,000** new jobs and provide quick, reliable and CO2-free journeys.

**12**

**driverless metro trains**

12 driverless metro trains will be the first rail project in Australia committed to be certified carbon neutral.

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**1st SiGREEN pilot in Southern Hemisphere**

## Tracking supply chain (Scope 3) emissions

# Tucker's Natural

The South Australian artisan baked snack producer was the **first** food and beverage company in Australia to track and measure its supply chain emissions using Siemens' innovative **SiGREEN** platform.

"Put simply – we can't reach Net Zero without tracking supply chain emissions. Siemens SiGREEN has enabled us to do this in a way that provides verifiable data. The results have been invaluable."

Sam Tucker, Managing Director, Tucker's Natural




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## Fighting fires with automation

# NSW Rural Fire Service

The **world's first** fully automated fire-retardant loading system for aircrafts helps save critical response time and increases safety and efficiency for the New South Wales Rural Fire Service.

A co-creation approach to product design and development by Siemens and Centric PA was used to develop the Retardant And Suppressant Computerised Aircraft Loading system (RASCAL).

**50%**
**quicker**

The system has sped up loading time by around 50%, ensuring aircrafts can get to fires faster.

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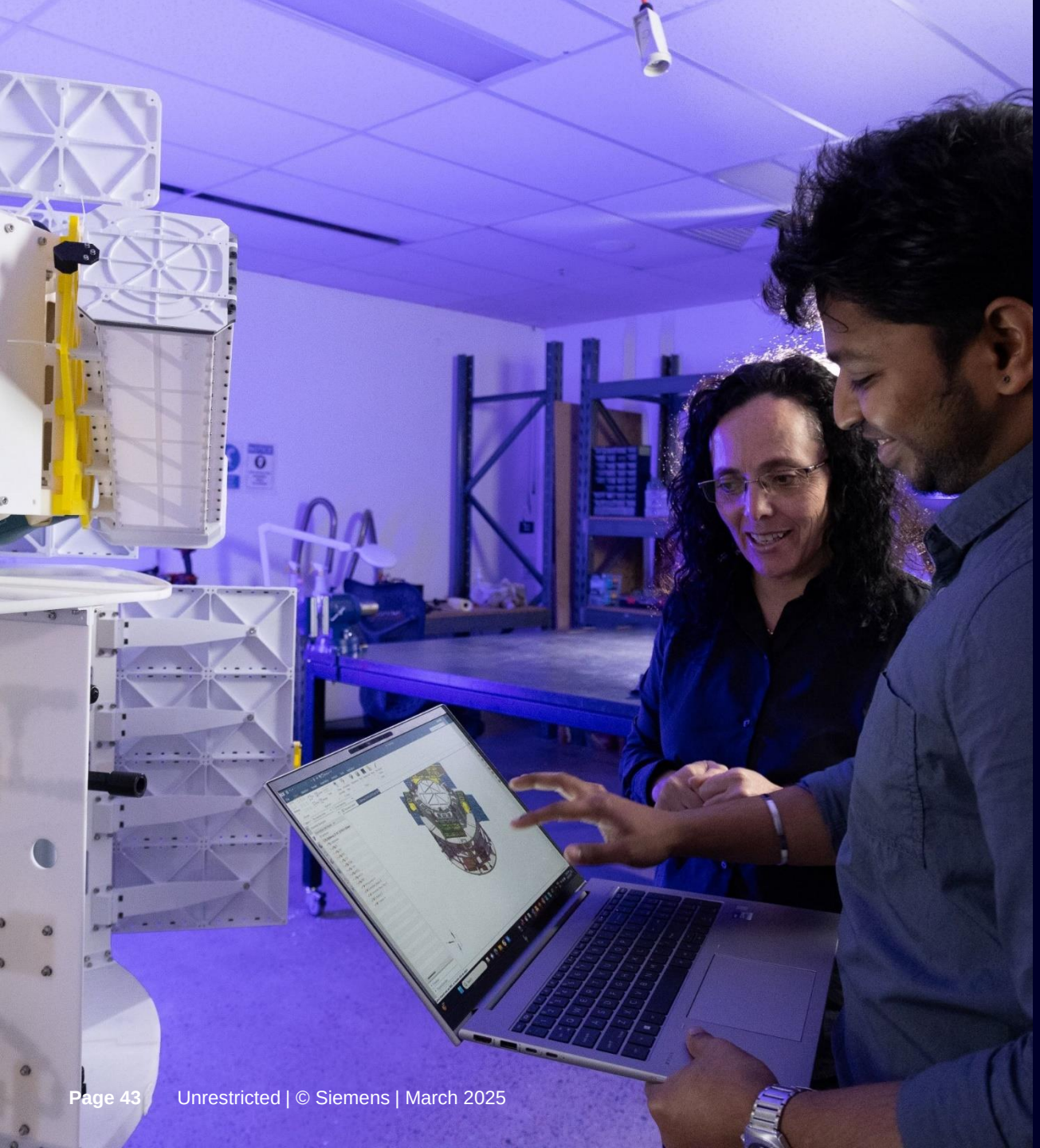

## Roadside assistance for space

# Space Machines

Australian startup Space Machines Company has used Siemens Xcelerator industry software to design and build the Optimus orbital servicing vehicle.

It is one of the largest commercial spacecrafts designed, manufactured, and assembled in Australia.

## Teamcenter® X

The cloud-based software is a trusted tool for Space Machines Company, together with NX™ and Simcenter™ software for design and modeling, thermo-mechanical elements simulation, and analyses.




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## Security systems for hospitals

# Monash Health

A 15-year partnership between Siemens and Monash Health was recognised at the 2023 Australian Security Industry Awards.

A recent project has been the successful planning and execution of security infrastructure for the newly-completed Victorian Heart Hospital, pictured left.

> “The security enhancements delivered through this partnership have improved patient safety, staff well-being, and overall security.”
>
> Peter Halliday, CEO, Siemens Australia and New Zealand




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## Onshore power supply for ships

# Strait Link Shipping

Strait Link operates daily sea freight services between Tasmania and Victoria. The company is reducing emissions, noise, and vibrations with SIHARBOR.

Ships can shut down their diesel generators when berthed, drawing power from the local grid instead. SIHARBOR provides a fast, simple and flexible connection to the shore via a cable management system, allowing for sustainable and economical onshore power supply.

> “Working with innovative partners such as Siemens on projects like SIHARBOR help us reduce air pollution and the noise impact on the communities. We want to lead the way in our local market.”
>
> Jason Martin, Technical Manager, Strait Link Shipping




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## Bottling AI for sustainability

# Automation Innovation

“We were able to develop an innovative solution for the glass bottling industry using a range of Siemens automation controls and software, combined with artificial intelligence and data analytics. This has been a fantastic example of what can be achieved through digitalization and automation.”

Walter Meyler, CEO,
Automation Innovation

This one innovation has the potential to reduce raw materials waste globally by **700,000 tonnes** per year.

This could result in over **1 billion kg less $CO_2$** in the world each year.




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Port of the future

# Patrick Terminals

Automated Rail Mounted Gantry Cranes are optimising operations at Patrick Terminals' Sydney Autostrad. This is the **first time** in the world where this operation has been fully automated.

The ARMG cranes were fully simulated with a **digital twin** and virtually commissioned. As a result of the project, the Sydney Autostrad is now the fastest and most efficient terminal in the country.

**450**

**fewer trucks**

450 diesel trucks have been taken off the road each day.

SIEMENS

## Software for the space industry

# Gilmour Space

Australian space launch services company, Gilmour Space Technologies, is using cutting-edge solutions from the Siemens Xcelerator portfolio to digitally transform its design and manufacturing processes across its Queensland facilities.

> “We’re unique in Australia in providing a full spectrum of launch services to our global customers. Siemens’ software will play a key role in our ongoing research, product and solution development as we grow into a globally competitive launch provider.”
>
> Adam Gilmour, CEO, Gilmour Space

SIEMENS


## Software for autonomous vehicles

# Applied EV

Applied EV specialise in digital control systems for autonomous vehicles.

Based in Victoria, they're utilising Siemens' high-tech industrial software systems to support the design, quality assurance and build of their next generation autonomous electric vehicles.

## Teamcenter® X

The cloud-based software is a trusted tool for Applied EV's design and product quality workflows to help decrease costs and reduce time-to-market.




SIEMENS

## Digitalization for the modern energy market

# AusNet

Siemens has assisted AusNet in the transition to the Australian Energy Market Operator (AEMO) 5 Minute Settlement Rule Change.

AusNet can now collect usage data from over 700,000 electricity meters, providing better price signals for investment in faster response technologies, such as batteries and renewables.

**Data from 700,000 electricity meters**




SIEMENS


## Grid stability for power networks

# Western Power

Siemens is improving **grid stability** with STATCOMs for Western Power's remote West Kalgoorlie–Boulder substation.

The technology is future-ready and can bridge the divide between traditional grid systems and **renewable energy**.

## Digital Twin

The solution includes a digital twin of the Western Power grid network, allowing technicians to create a virtual replica of the network.

SIEMENS

## Advanced software for yacht racing

# Emirates Team New Zealand

The defending America’s Cup winners use Siemens software for the design and development of their racing yacht.

NX™ computer-aided design software is used to model the entire yacht and move through design iterations faster.

**4**

Emirates Team New Zealand have won the America’s Cup four times making it the most successful team in modern history.

SIEMENS

## Meeting sustainability targets

# RMIT University

Working with Siemens, RMIT achieved their sustainability targets four years ahead of schedule.

Upgraded building automation across the City campus and an autonomous cogeneration power system formed part of the solution, saving 16,500 tonnes of $CO_2$ per year.

**39%**
**reduction**

RMIT's City campus takes up roughly six percent of the central business district! A 39% reduction in electricity usage was achieved ahead of schedule.

SIEMENS

## Designing a Digital Shipyard

# Birdon Group

Birdon provides solutions to the maritime, defence and resource sectors.

They're using Siemens software to develop a digital shipyard to service both Australian and international shipbuilding customers, including the US Army.

## Teamcenter®

Birdon use Siemens' Teamcenter® software for Product Lifecycle Management (PLM), integrated with NX™ software for Computer-Aided Design.




SIEMENS

## Reducing methane emissions in cattle

# CH4 Global

Siemens and CH4 Global are collaborating on digitalization to help reduce methane emissions in cattle. Carbon emissions from the livestock industry are more than double the emissions from passenger vehicles.

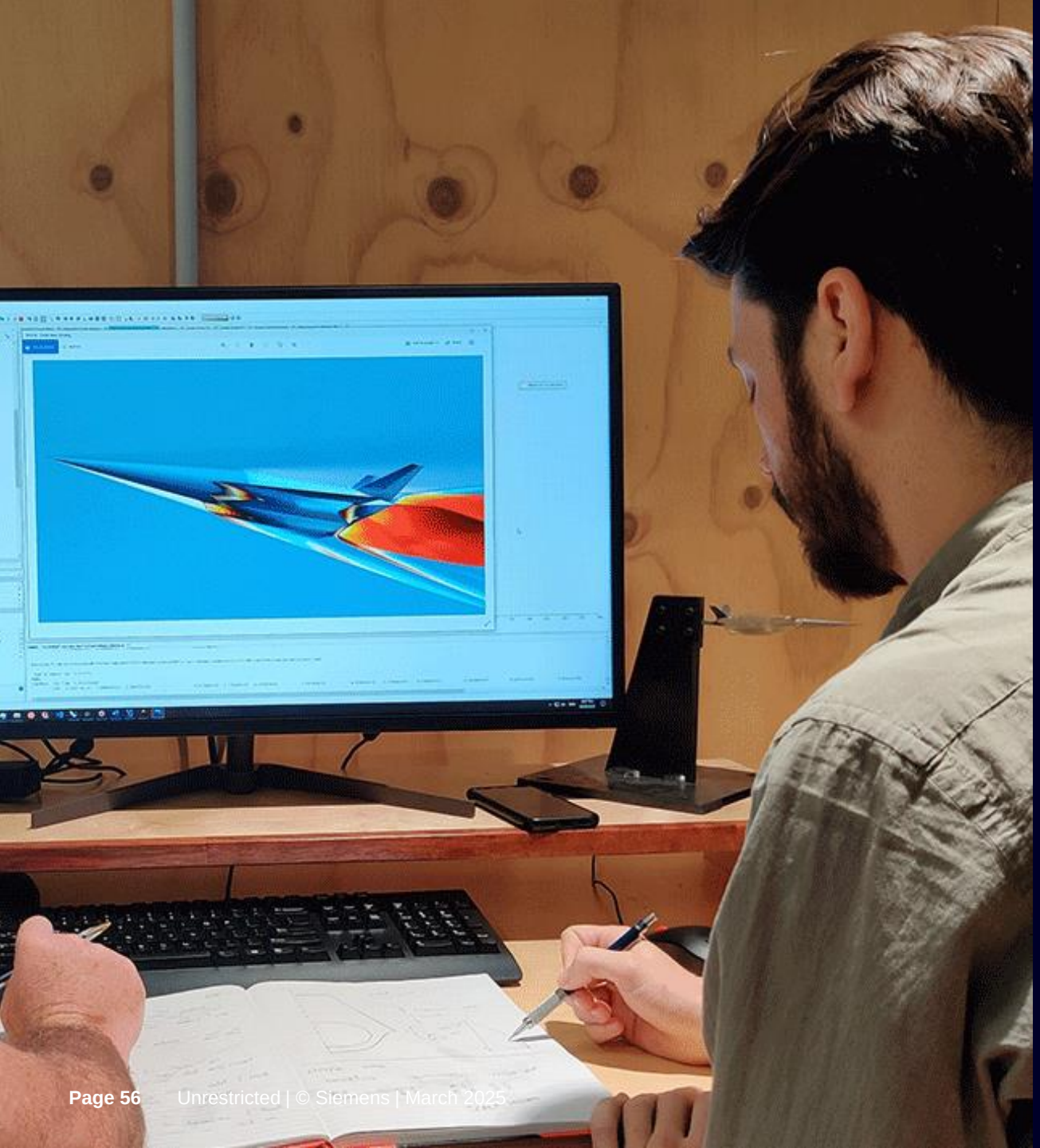
CH4 Global has ambitions of reducing enteric methane emissions by using Asparagopsis seaweed processed as cattle feed supplements.

**90%**
**reduction**

CH4 Global aims to reduce methane emissions from livestock by 90%.




SIEMENS



## Advanced simulation for space

# Hypersonix

Brisbane-based engineering start-up Hypersonix is a key player in Australia's burgeoning space industry.

The company chose Siemens software to help design its **green hydrogen-fuelled sustainable and reusable** hypersonic launch vehicle. This is thought to be the first time scramjet engines will be used for small satellite launch.

## Simcenter™

Simcenter™ STAR-CCM+™ software enabled Hypersonix to perform multiple simulations of air-flow around its Delta-Velos launch vehicle.

SIEMENS

## Scaling up fertiliser production

# Agripower

Produced by Agripower, Agrisilica® is currently the only organic fertiliser certified for use in Australia, the US, the EU and India.

Automation technology has enabled Agripower to seamlessly go from pilot plant to full production capacity to meet global demand for amorphous silica.

**40%**
**reduction**

$N_2O$ is a greenhouse gas that is around 300 times more potent than $CO_2$. Agrisilica can help can reduce $N_2O$ emissions by up to 40%.

SIEMENS

## Our technology in action

# Museums Victoria

Museums Victoria is Australia’s largest public museum organisation and manages iconic sites like the Royal Exhibition Building and the Melbourne Museum.

Museums Victoria partnered with Siemens on an Energy Performance Contract (EPC), designed to pay for itself through reduced energy costs.

**41%**
**reduction**

Museums Victoria reduced its electricity usage by 41% with HVAC and lighting upgrades, solar panels, and a state-of-the-art building management system.

SIEMENS


## Our technology in action

# Wolf of the Willows

Technology from Siemens allowed microbrewery Wolf of the Willows to pivot from kegs to cans during the COVID-19 pandemic.

Siemens' totally integrated automation forms the backbone of the Fermecraft solution, allowing for flexibility and ensuring a quality product.

**28%**
**reduction**

The fermentation cycle at Wolf of the Willows was reduced from around 25 days to 18 days.

SIEMENS


## Our technology in action

# KAIJU! Beer

KAIJU! creates a range of hop-driven beer, all made at their brewery in Dandenong South, Victoria.

Siemens' totally integrated automation forms the backbone of the technology installed by Fermecraft, ensuring quality, reliability and flexibility.

The technology allows KAIJU! to visualise crucial brewery data. This has led to:

- faster production improvements;
- easier decision making;
- improved and consistent quality.




SIEMENS

## Our technology in action

# Great Barrier Reef

Scientists at the Australian Institute of Marine Science (AIMS) study tropical marine environments in SeaSim, the **world's most advanced** research aquarium facility.

Siemens automation technology simulates ocean conditions and provides research teams with absolute control over variables such as temperature, acidity and salinity.

**Millions**

Siemens technology has helped spawn hundreds of corals at the National Sea Simulator creating millions of coral larvae created for the future.

SIEMENS


## Solar panels and smart sensors

# Siemens Australia HQ

The Siemens Australia head office is now a smarter and more energy efficient building thanks to an energy performance upgrade.

The project included a solar installation, smart IoT sensors, an upgrade to the Siemens Building Management System, and LED lighting upgrades.

It was financed by Siemens Real Estate through a global fund earmarked for energy efficiency projects across Siemens sites.

SIEMENS


## Innovative aerospace technology

# HeliMods

Digitalization drives innovation at HeliMods, where advanced software from the Siemens Xcelerator portfolio is used to design and install custom modifications for helicopters.

**World-first** innovations, such as the zero-lift, push-button powered stretcher loading system, are used by front-line paramedics in life-saving missions every day.

**1st**

HeliMods is the first company of its size in the Australian aerospace sector to fully digitalize its entire product design and manufacturing process.

SIEMENS


**Fast and easy installation - typically in less than 30min per phase.**

## Reducing bushfire risk

# Powercor

Following the Black Saturday bushfires, Powercor was required to replace legacy reclosers in their distribution network with the latest technology.

Designed and manufactured in Australia, Siemens **Fusesaver™** - the world's fastest medium voltage circuit breaker - was deployed by Powercor to improve the reliability and safety of its network.

With around **90,000** kilometres of distribution lines, Powercor delivers electricity to over **844,000** homes and businesses in Victoria.




SIEMENS


## Modernising Sydney's rail network

# Sydney Trains

Sydney Trains is the operator of rail services across the metropolitan Sydney area, one of the busiest networks in the southern hemisphere.

Siemens Mobility is upgrading the rail network with a new Traffic Management System along with a signalling upgrade to an advanced digital ETCS-L2 train control system.

This work is part of the NSW Government's Digital Systems Program, a **'once in a generation change'** to enable more frequent and reliable services and increase capacity.




SIEMENS


## End-to-end digitalization

# Dulux Australia

Dulux's paint factory in Victoria can respond quickly to the latest trends, thanks to the end-to-end digitalization of all processes.

Advanced automation has created a paint production process that consistently delivers the highest quality paint faster than ever before.

"We can produce specialty paint batches **1/50th** of the size and in about **1/8th** of the time than previously possible in our other plant."

Kevin Worrell, Project Director, Dulux Australia

SIEMENS

Photo credit: Rocket Lab

## Software for space

# Rocket Lab

Rocket Lab is a global leader in launch and space systems, delivering launch services, spacecraft, satellite components, and on-orbit management.

The company has implemented Siemens Xcelerator software to help digitally manage the lifecycle needs of the business.

> “Investing in the right digital platforms that allow us to easily scale with growth is critical to the sustainability of our business.”
>
> Shaun O’Donnell, Vice President of Global Operations, Rocket Lab



SIEMENS

## Intelligent systems

# Coopers Brewery

Commencing production in 1862, Coopers Brewery is Australia's oldest family-owned and run brewery.

Coopers' Adelaide brewhouse operates using Siemens automation & software. Intelligent systems optimise data and ensure quality throughout all stages of the manufacturing process.

**800%**

Coopers' journey from mechanisation to automation and digitalization over the past 30 years has resulted in productivity gains of 800%.




SIEMENS

## Supporting grid stability

# Tahiti Decarbonisation Project

A power conversion system from Siemens is playing a critical role in supporting the power, frequency and overall grid stability of Tahiti's energy network

The system integrates into a Battery Energy Storage System from Kokam, which offsets existing diesel generators.

**75%**

By upgrading the island's energy network, Electricité de Tahiti aims to produce 75% of the island's electricity from renewables by 2030.

SIEMENS

# Shaping **the future**

## Industry & government partnerships




SIEMENS


Siemens AG CEO Roland Busch announces a software donation to the University of Western Australia, accompanied by then Western Australian senator Mathias Cormann.

Empowering the next generation

# Software grants for Australian universities

## Preparing for Industry 4.0

A strategic grant program of Siemens hi-tech industrial software, with a combined commercial value of more than A$1.5 billion, is enabling students to develop future-ready skills.

## Recipients include:

- Swinburne University of Technology
- University of Western Australia
- University of Queensland
- University of Technology Sydney
- University of Tasmania
- RMIT University
- Charles Darwin University

SIEMENS


**Siemens and Swinburne University's**

# Energy Transition Hub

- Most advanced energy grid simulation hub of its kind in Australia
- $5.2 million hub features some of the world's most advanced energy software
- The Hub simulates **digital twin** of Australia's energy grid, enabling future energy scenarios mapping




SIEMENS

Dr. Susan Close, Deputy Premier, South Australia; and Peter Halliday, CEO, Siemens Australia and New Zealand at the pilot launch.

South Australia

# SiGREEN Pilot

## Supporting the Food & Beverage industry's transition to Net Zero

Siemens has run the first Australian pilot of SiGREEN in South Australia, a unique Siemens tool which enables companies to track and manage verifiable Product Carbon Footprints (PCF) across their supply chain.

## Tracking supply chain emissions

With over 90% of emissions originating in complex and distributed supply chains, SiGREEN captures and quantifies emissions data from this process.




SIEMENS


Michael Hopkins, CEO, and Commissioner of the National Transport Commission; and Raphaelle Guerineau, CEO, Siemens Mobility Australia and New Zealand

## Memorandum of Cooperation

# Enhancing rail interoperability

Siemens Mobility has signed a Memorandum of Cooperation (MoC) with governments and industry, aimed at enhancing rail interoperability throughout Australia and addressing long-standing legacy issues in the rail industry.

By signing this MoC, Siemens Mobility as a key player in the global rail industry, shows its commitment to support the Australian Rail Industry with interoperable solutions, like the European Train Control System.




SIEMENS

Memorandum of Understanding

# NSW State Government

## Access to cutting-edge software

The MoU gives 25,000 students from the University of Technology Sydney access to new cutting-edge software, as part of a technology partnership across the areas of automation, digitalization and electrification.

## Shaping the future of NSW

The MoU helps students develop the skills they need for the knowledge intensive jobs of the future in areas such as cloud computing, analytics and artificial intelligence.




SIEMENS

Siemens – RMIT University

# Digital Energy TestLab

## Only TestLab of its kind in Victoria

The facility opens new education and research pathways to one of the nation's most critical topics – the future of energy for smarter and more sustainable cities.

## Energy systems for smart cities

Harnessing the power of data analytics, IoT, simulation and the same hardware and software being used by new generation national networks, the future energy workforce can test and model real-world scenarios and optimise energy systems for smart cities.




SIEMENS


**University of Queensland**

# Industry 4.0 Energy TestLab

The TestLab is a “living laboratory” and provides researchers with a new and powerful platform for innovative research, supported by Siemens grid software.

The research focus of the Industry 4.0 Energy TestLab spans power and energy systems, microgrid, energy management, and cyber security.

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# We’re an active member in local thought-leadership and industry organisations




SIEMENS

# Shaping **the future**

## Innovation and technology




SIEMENS

# Innovation is the basis for our success

**A$10.2 bn**
R&D expenditures[1]

**50,000**
R&D employees[2]

**5,250**
inventions[1]

**2,900**
patent applications[1]

## Cooperation
with universities, research institutes, and start-ups

**16**
Siemens Research and Innovation Ecosystems (Siemens RIEs)

**1** In FY 2024, converted to AUD
**2** On average during FY 2023

# Our digital portfolio

**Top 10**

Siemens is one of the top 10 software companies[1]

**A$10.5 bn**

digital revenue[1] with 10% CAGR until FY 2025

**>1,000**

digital offerings on Siemens Xcelerator Marketplace[2]

**A$22.6 bn**

invested in digital companies since 2007[1]

Data analytics

AI and IoT

Simulation tools

New business models

Secure connectivity

Cyber-security

1 As of September 30, 2022, converted to AUD

2 Includes offerings by Siemens Xcelerator Marketplace sellers as well as Siemens offerings, as of October 31, 2024



SIEMENS

**Siemens Xcelerator accelerates the digital and sustainability transformation of our customers. The business platform is the way we bring our strategy to life and create exponential growth.**

**Our Purpose**

We create technology to transform the everyday, for everyone

**Our Strategy**

Combining the real and the digital worlds

A comprehensive, curated **portfolio** that includes digital and IoT-enabled offerings from Siemens and certified partners

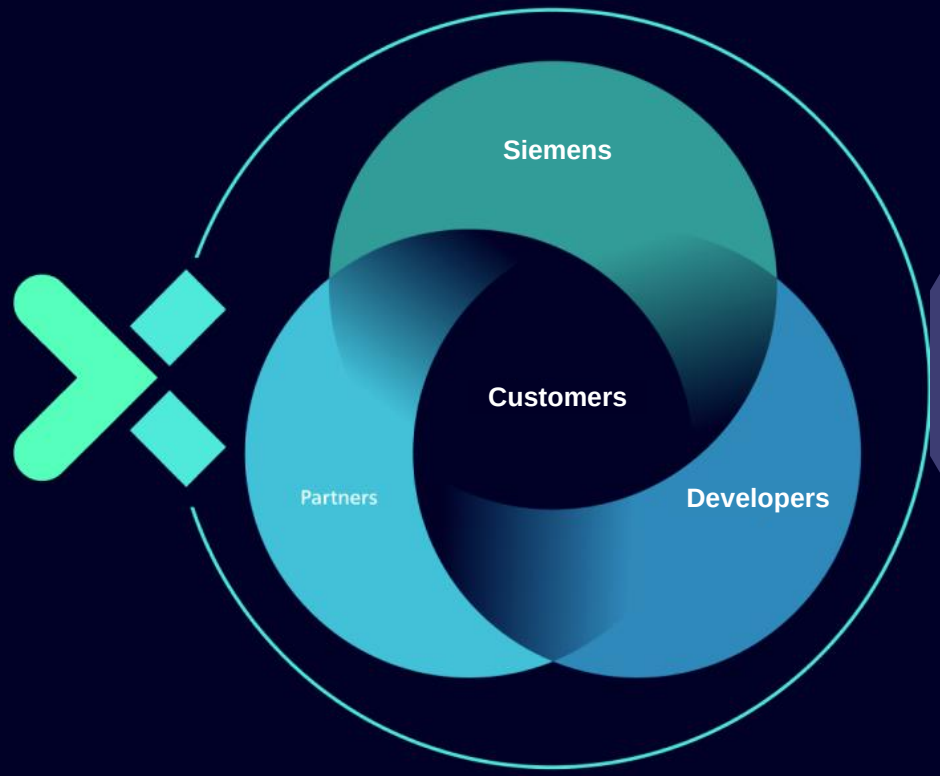
A continuously growing, powerful **ecosystem** of partners

An evolving **marketplace**, enabling education, exchange and transaction with a community of customers, partners and experts




SIEMENS

# Siemens Xcelerator simplifies digital transformation and increases value for all ecosystem participants




**Customers benefit** from **faster** and **easier** integration of Xcelerator offerings and its **scalability**, resulting into higher **efficiency**, **resilience and sustainability.**
Partners benefit from a **global exposure, co-creation and marketing opportunities.**

---

Our **5 design principles** (openness, aaS, interoperability, flexibility, cybersecurity) set industry standards in digital transformation

---

A clear **technical and commercial governance** secures highest safety standards and a vivid exchange, based on trust



SIEMENS

# Stronger together: A powerful ecosystem of partners

Siemens has welcomed the first local Australian partners to the Siemens Xcelerator ecosystem.

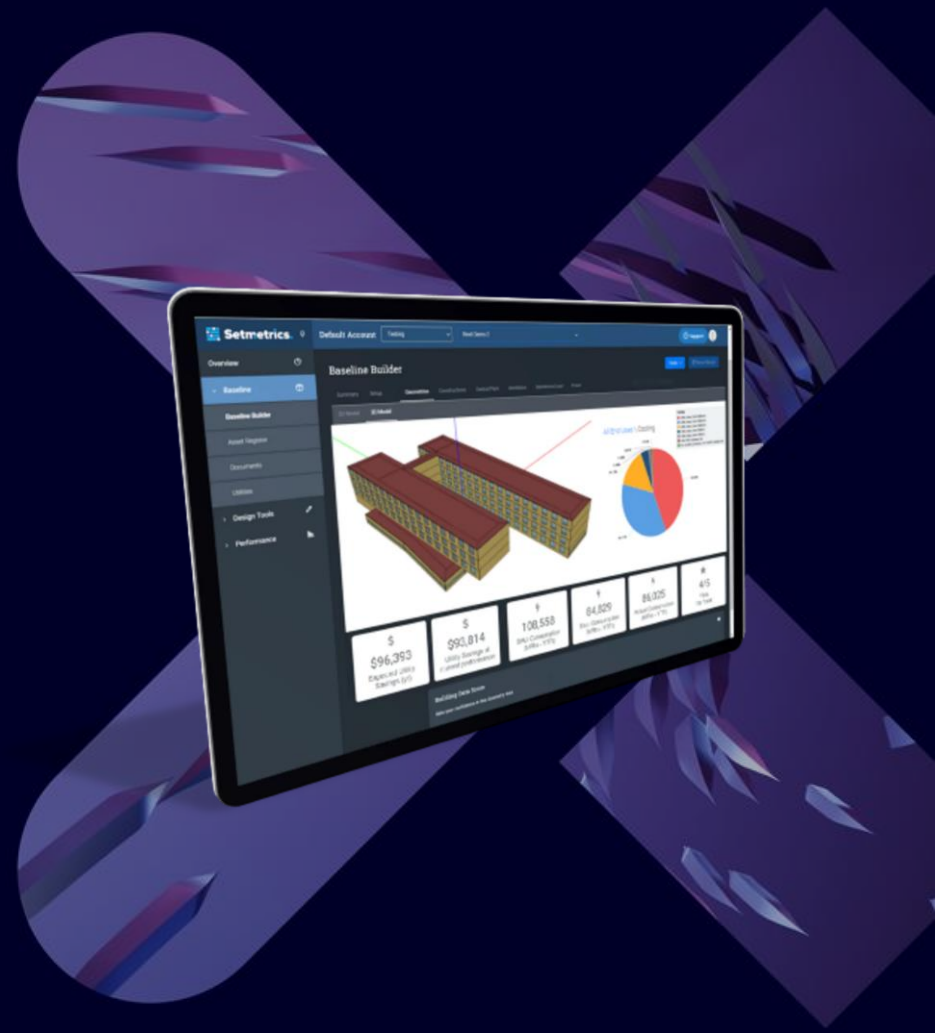
These companies play a key role in making digital transformation easier, faster and scalable, focusing on innovative solutions across a wide range of industries and environments.

AerVision Technologies

Bueno

Setmetrics

Unleash live





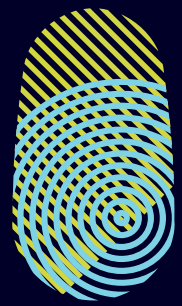


SIEMENS

# Charter of Trust

A joint initiative for a secure sustainable digital world

aes · Allianz · Atos · BOSCH · DELL Technologies · IBM · Infineon · Microsoft · MITSUBISHI HEAVY INDUSTRIES, LTD. · msc · NXP · SIEMENS · TotalEnergies · TÜV SÜD



**Charter of Trust**

charteroftrust.com

## Associated Partner Forum

Bundesamt für Sicherheit in der Informationstechnik · CANADIAN CENTRE FOR CYBER SECURITY · CEBRI · CCN Centro Criptológico Nacional · certn · CR2 · CSA cloud security alliance · CSIR · CyberPeace Institute · CYBER READINESS INSTITUTE · GLOBAL CYBER ALLIANCE · HPI Hasso Plattner Institut · METI · 総務省 MIC Ministry of Internal Affairs and Communications · Tecnológico de Monterrey · TU Graz

**01**

Protect the data of individuals and businesses

**02**

Prevent damage to people, businesses, and infrastructure

**03**

Build trust in the digital world




SIEMENS


Local Research & Development

# Overhead Medium Voltage Systems

## From start-up to scale-up: The home of Fusesaver™

- Siemens has invested ~$25 million in the Competence Centre in Yatala, Queensland.
- The facility manufactures local innovation Fusesaver™, which is exported and used by energy utilities in over 30 countries to improve reliability of energy networks.
- A significant portion of the investment is earmarked to support the research and development of new products, like the recently released Compact Modular Recloser.




SIEMENS

Local Research & Development

# Siemens Mobility

## The only trackside railway company with Australian Made recognition

- Demand continues to grow for the products designed and manufactured at our facility in Port Melbourne and for the services provided by our rail specialists.
- We've been manufacturing the point machine for almost **90 years**, with **15 patents** held by our local manufacturing sites.
- We are at the forefront of condition-based maintenance for rail and rolling stock with an R&D facility in Perth.
- Products and solutions from these facilities are exported around world to service global customers.




SIEMENS

# Shaping **the future**

## Company initiatives




SIEMENS

# Our Reconciliation Action Plan

As the nation progresses in its reconciliation journey, we take the responsibility as a business to do so as well.

The development and implementation of our ***Innovate* Reconciliation Action Plan** is a key step to addressing some of the economic and social imbalances experienced by Aboriginal and Torres Strait Islander peoples and communities.

Learn more and download our Reconciliation Action Plan here: sie.ag/InnovateRAP




SIEMENS

# Compliance
Zero tolerance for misconduct

## High rankings

in Dow Jones Sustainability Index
in the category “Compliance” since 2009

## A$190 m

since 2009 to support organizations and projects fighting corruption and fraud[1]

## >461,000

web-based compliance trainings of employees each year, averaged[2]


**1** Converted to AUD I 2 Including Siemens Healthineers



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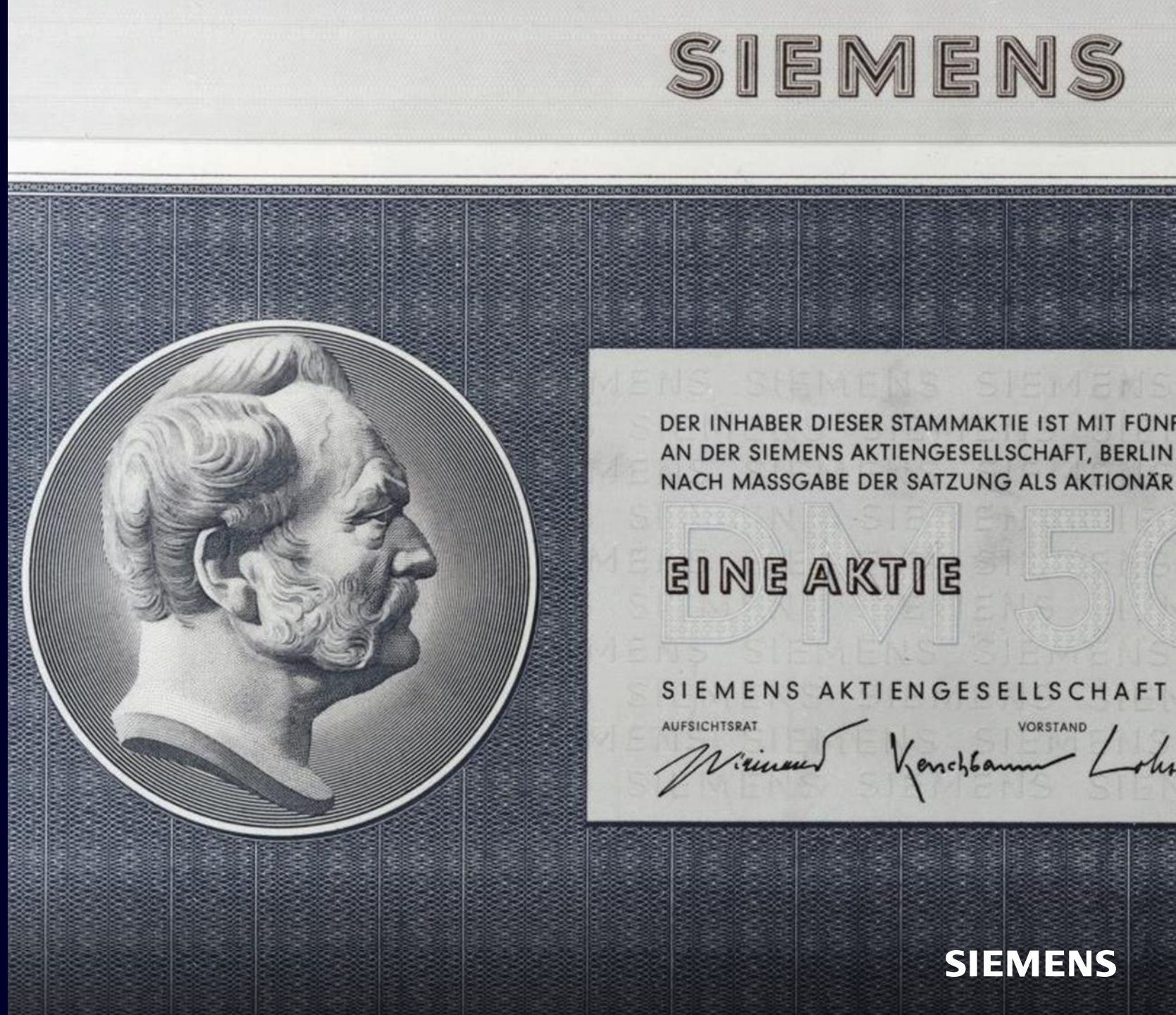
# ~170,000

Siemens employees are shareholders of the company[1]




**1** As of September 30, 2023. This number includes only employees who received and still hold Siemens AG shares through participation in Siemens Share Plans. Employees who hold Siemens AG shares exclusively in their private capacity are not included.



SIEMENS

# Businesses and **Services**



SIEMENS

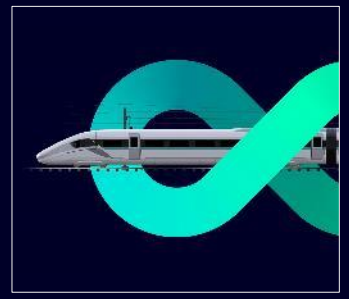
# Businesses and Services of Siemens AG

## Industrial Business

Digital Industries

Smart Infrastructure

Mobility



Siemens Healthineers[1]

Siemens Advanta

## Key Services

Siemens Financial Services

Siemens Real Estate


Global Business Services

**1** Publicly listed subsidiary of Siemens; Siemens' share in Siemens Healthineers is 75%



SIEMENS

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We may also make forward-looking statements in other reports, in prospectuses, in presentations, in material delivered to shareholders and in press releases.

In addition, our representatives may from time to time make oral forward-looking statements. Such statements are based on the current expectations and certain assumptions of Siemens’ management, of which many are beyond Siemens’ control. These are subject to a number of risks, uncertainties and factors, including, but not limited to those described in disclosures, in particular in the chapter Report on expected developments and associated material opportunities and risks in the Combined Management Report of the Siemens Report (www.siemens.com/siemensreport), and in the Interim Group Management Report of the Half-year Financial Report (provided that it is already available for the current reporting year), which should be read in conjunction with the Combined Management Report. Should one or more of these risks or uncertainties materialize, should decisions, assessments or requirements of regulatory authorities deviate from our expectations, should events of force majeure, such as pandemics, unrest or acts of war, occur or should underlying expectations including future events occur at a later date or not at all or assumptions prove incorrect, actual results, performance or achievements of Siemens may (negatively or positively) vary materially from those described explicitly or implicitly in the relevant forward-looking statement. Siemens neither intends, nor assumes any obligation, to update or revise these forward-looking statements in light of developments which differ from those anticipated.

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Due to rounding, numbers presented throughout this and other documents may not add up precisely to the totals provided and percentages may not precisely reflect the absolute figures.

All information is preliminary.

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