SIEMENS

The content of this document was provided by Siemens Ltd

Greener Government Buildings

**Organisational Overview**

Siemens is a technology company focused on the fields of industry, infrastructure, mobility. Founded in 1847 by Werner von Siemens in Berlin, Germany, Siemens has evolved into a global technology company, supporting customers all over the world to become more competitive, resilient, and, above all, more sustainable. Our portfolio enables a positive impact on our planet and society at scale.
Our purpose – which has guided us for 176 years – is to create technology to transform the everyday, for everyone.

This technology with purpose touches the lives of customers, partners, and consumers everywhere – improving the quality of life for billions of people worldwide. Technology with purpose is about leveraging digitalization for optimized resource usage and circularity readiness and accelerating the energy transition through renewable integration, energy efficiency, and electrification.

As of September 2023, Siemens has around 320,000 employees in over 190 countries. Throughout Australia and New Zealand, where Siemens has been active for over 150 years, Siemens employs a team of 550 (as at Feb 2024) dedicated specifically to building technology, building efficiency, electrification, automation and associated technologies.

Siemens has successfully delivered several projects under the Victorian Government's Greener Government Buildings (GGB) program, including the following, some who have returned to Siemens as a preferred contractor for a second project due to the trust gained through delivery of the first project:

- Melbourne Cricket Ground (EPC-1 and EPC-2)
- Museums Victoria (EPC-1 and EPC-2)
- Federation Square
- RMIT University (City campus)
- National Gallery of Victoria

EPC projects are conducted using a methodology in alignment with the Victorian Government's GGB guidelines and the Energy Efficiency Council's Best Practice Guide to EPCs. Siemens EPC solutions target all applicable building systems to reduce energy and water consumption and seeks to optimised operations and maintenance processes to deliver holistic facility improvements.

In house technical and commercial teams are responsible for the end-to-end delivery of EPC solutions, from auditing, design, implementation to Measurement and Verification (M&V) and ongoing services. In house expertise includes the disciplines of lighting, mechanical, electrical, controls, water and embedded generation. Applied technologies utilise the largest efficiency and environmental solutions portfolio worldwide, including:

- Embedded generation (incl. on site cogeneration, & Solar PV).
- Lighting and lighting control systems.
- Energy management and building automation systems.
- Heating, ventilation, and air conditioning specialists.
- Water conservation (incl. water efficiency, harvesting, treatment, filtration, recycling).
- Metering, monitoring, and measurement & verification.
- Passive energy saving solutions
- Waste heat recovery
- Electrification

Globally over 90% of Siemens' business enables customers to achieve a positive sustainability impact, achieving around 190 million tCO2e avoidance using Siemens products and solutions within the 2023 financial year.
Additionally, Siemens is committed to reducing its own environmental impact; with a target for a 55% reduction in emissions by 2025 and 90% reduction by 2030.
Siemens is working toward achieving a 20% reduction in emissions from its supply chain by 2030 compared to 2020, and ultimately, to establish a carbon-neutral supply chain by 2050.

Lastly, Siemens has been awarded a Platinum rating and is recognised within the top 1% of assessed organisations for sustainability within the 2024 EcoVadis Sustainability Rating. Siemens has been a part of the Dow Jones Sustainability Index for 22 consecutive years and in 2021 was named the most sustainable company in its industry group.

SIEMENS

The content of this document was provided by Siemens Ltd

Greener Government Buildings

| | | |
|---|---|---|
| **Company Details** | **Company Name** | Siemens Ltd |
| | **ABN** | 98 004 347 880 |
| | **Primary Address in Victorian Government** | 885 Mountain Highway,<br>Bayswater, VIC 3153 |
| | **Telephone** | 137 222 |
| | **Website** | www.siemens.com.au |

| | | |
|---|---|---|
| **Key Contact 1** | **Name** | Alistair Fraser |
| | **Position** | Sustainability Head |
| | **Mobile** | +61 432 707 729 |
| | **E-mail** | Alistair.Fraser@siemens.com |

| | | |
|---|---|---|
| **Key Contact 2** | **Name** | Henning Kemmer |
| | **Position** | Senior Energy Solutions Engineer |
| | **Mobile** | +61 437 005 075 |
| | **E-mail** | Henning.Kemmer@siemens.com |

| | | |
|---|---|---|
| **Financial Details** | **Minimum Contract Size** | $500k (AUD) |
| | **Maximum Contract Size** | Siemens does not nominate a maximum contract size |
| | **Public Liability Insurance** | HDI Global SE $20m |
| | **Professional Indemnity Insurance** | HDI Global SE $20m |

**Accreditations**

- CMVP (Certified Measurement and Verification Professionals)
- CEM (Certified Energy Manager)
- CERL Certified Energy Reduction Leader (commercial Buildings)
- GSAP (Greenstar Accredited Professional)
- NABERs Assessor
- Energy Efficiency Council Board Member

**Core Competencies**

- Energy Auditing
- Measurement verification to IPMVP
- Industry leading chiller plant optimisation (Demand Flow ™)
- Renewable Generation / Battery Storage
- Supplier agnostic approach to energy efficiency project development
- Account management
- Project management
- Building automation systems
- Building services equipment energy efficiency
- Energy efficiency solutions within critical environments such as hospitals
- Peak Demand Limiting and Demand Response solutions

**Service Limitations**

Siemens are proficient in all core competencies for energy auditing and energy performance contracting with our internal core team and are supplemented by a large pool of global resources with vast experience in design and delivery in energy efficiency initiatives.

SIEMENS

The content of this document was provided by Siemens Ltd

Greener Government Buildings

## Previous & Current EPC Experience

| Project Name | Museum Victoria EPC-1 / EPC-2 | |
|---|---|---|
| Customer | Museum VIC | Description / Solutions |
| Project Cost | $11.3M / $2.7M | **Customer requirements**<br>To reduce greenhouse gas emissions and potable water use through energy and water efficiency measures at government owned buildings, as well as to upgrade aging infrastructure.<br>**Solution from Siemens**<br>Facility improvement measures across the six sites include: Siemens Desigo CC Building Management System, Chiller Upgrades, Demand Flow chilled water system optimisation, lighting upgrades; HVAC control optimization strategies and water efficiency upgrades.<br>**Customer benefits**<br>Energy Performance Contract with seven-year simple payback based on achieved energy and maintenance savings. IPMVP principals applied to M&V plan for performance assurance. |
| Annual Savings | $1.7M / $221K | |
| Payback Period (yrs) | 7 years (each project) | |
| Date Completed | 2018 / 2023 | |
| Dean Leggett | **Title:** | Manager, Strategic Facilities Management |
| | **Organisation:** | Museums Victoria |
| | **Relationship:** | Customer |
| | **Phone:** | +61 3 8341 7266 / +61 439 526 506 |
| | **E-mail:** | dleggett@museum.vic.gov.au |

| Project Name | RMIT City Campus EPC | |
|---|---|---|
| Customer | RMIT | Description / Solutions |
| Project Cost | $47.3 million | **Customer requirements**<br>To investigate and improve the efficiency of buildings across the large city campus, and to consolidate and upgrade the building automation system, which was previously multiple separate legacy systems.<br>**Solution from Siemens**<br>Upgrading existing Building Management Systems (BMS) to Siemens system, 3MW Cogeneration System, Chiller Upgrades, HVAC Upgrades, LED lighting upgrade, water efficiency upgrades.<br>**Customer benefits**<br>Guaranteed energy savings through efficient energy and water usage, better optimisation of building HVAC controls, central plant and air-conditioning of interior spaces and a new source of cleaner energy. |
| Annual Savings | $4.46 million | |
| Payback Period (yrs) | 8 years | |
| Date Completed | 2018 | |
| Michael Snow | **Title:** | Senior Program Manager |
| | **Organisation:** | RMIT University |
| | **Relationship:** | Customer |
| | **Phone:** | +61 428 980 733 |
| | **E-mail:** | michael.snow@rmit.edu.au |

| | | |
|---|---|---|
| **Project Name** | **MCG EPC-1 / EPC-2** | |
| **Customer** | Melbourne Cricket Club (MCC) | **Description / Solutions** |
| **Project Cost** | $8M + $5.1M | **Customer requirements**<br>To investigate and improve the building's efficiency. Siemens looked for new and innovative ways to further improve the facility's performance.<br>**Solution from Siemens**<br>Upgrading existing Building Management System (BMS) to Siemens System, Event Booking Management System (EBMS) Integration, Chiller Upgrades, Demand Flow chilled water system optimisation, HVAC Upgrades, Complete general lighting upgrade, water efficiency upgrades.<br>**Customer benefits**<br>Guaranteed energy savings through efficient energy and water usage, better optimisation of internal lighting, central plant and air-conditioning of interior spaces, with greater integration and control over existing systems. |
| **Annual Savings** | $1.14M + $714K | |
| **Payback Period (yrs)** | 7 years (each project) | |
| **Date Completed** | 2015 / 2021 | |



| | | |
|---|---|---|
| **Marshall Holding** | **Title:** | Operations & Contracts Manager, Facilities |
| | **Organisation:** | Melbourne Cricket Club |
| | **Relationship:** | Customer |
| | **Phone:** | +61 3 9657 8934 / +61 437 096 476 |
| | **E-mail:** | marshallh@mcc.org.au |