RMIT has made its carbon footprint a whole lot lighter

SUPP

Sustainable Urban Precincts Program

We've upgraded **77 buildings** across three campuses with more efficient infrastucture and smarter technology.

Through our $128m Sustainable Urban Precincts Program (SUPP), we've achieved a 39% reduction in emissions. Going Greener has not only helped us contribute to a more liveable city, but has also reduced our costs and created a better on-campus experience for our students and staff.

Transforming our campuses

The range and age of RMIT's buildings present an enormous challenge to adapt them to today's conditions and tomorrow's expectations. We have upgraded our infrastructure to ensure our buildings are more reliable, efficient and comfortable for students and staff. RMIT has introduced on-site power generation, new controls and equipment to transform our campuses for the future. SUPP demonstrates how all of this new technology can be coupled together at a precinct scale to deliver industry leading energy and emissions savings.

Ahead of schedule to achieve our emissions reduction goal

The energy savings from our SUPP initiatives have resulted in a 39% reduction in total carbon emissions across our operations.

This is well in excess of RMIT's Australian Technology Network target of 25% by 2020 (2007 baseline), which was achieved four years ahead of schedule – bringing environmental benefits, significant cost savings and resilience to increasing utility costs.

A legacy of learning

Incorporating a $4.8m investment into Learning, Teaching, Research and Engagement, SUPP has allowed RMIT to accelerate skills development, enhance research capabilities and develop career pathways for students into related industries. Students and researchers have leveraged the project to develop new sustainability initiatives and case studies, providing a legacy of learning beyond the life of the project.

Being the largest project of its type in the Southern Hemisphere, SUPP has demonstrated RMIT's long standing commitment to sustainability and innovation.

Learn more about the SUPP initiatives overleaf.

$128m investment

into sustainable infrastructure, Learning, Teaching, Research and Engagement.

SUPP initiatives have resulted in a:

30,000

tCO_2-e emissions reduction per annum

+

53%

grid electricity saved through direct savings and embedded generation

+

52 million litres

water saved per annum

Discover more about RMIT's bold leadership through SUPP:
rmit.edu.au/supp

RMIT UNIVERSITY

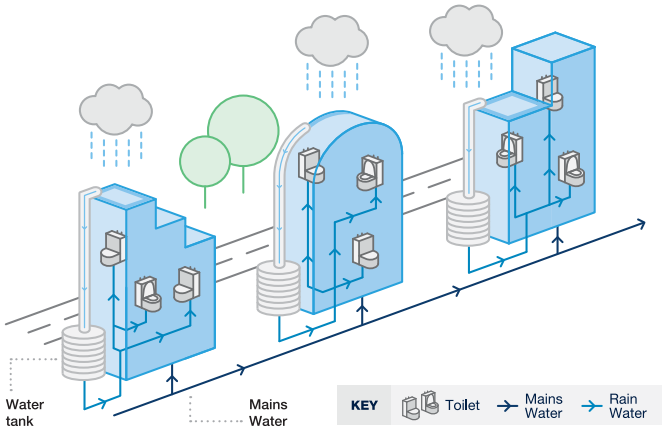
SUPP initiatives
What we've done

RMIT UNIVERSITY

Water upgrades

Water saving:
52 million litres

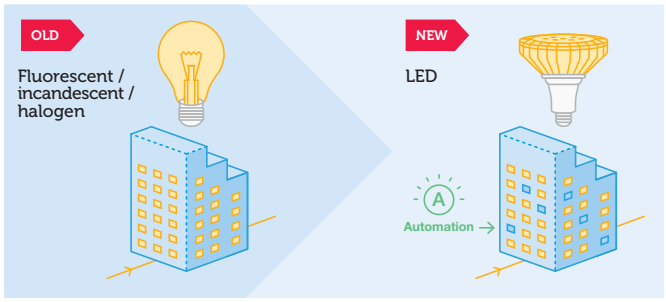
By adding water tanks and upgrading to more efficient fixtures, we've **reduced our water consumption by 20%**. Additionally, a stormwater transfer pipeline in Bundoora was built to better capture and utilise runoff water.



Lighting upgrades

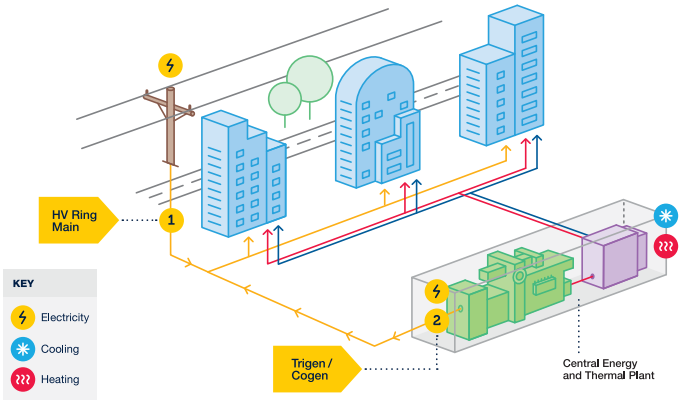
Electrical saving:
4.4 million kWh

We've changed over **40,000 light fittings** in **71 buildings**. **Automated lighting** has been installed to save power and prolong the life of lights. The new LED lights last **up to 20 years longer** than fluorescent lights.



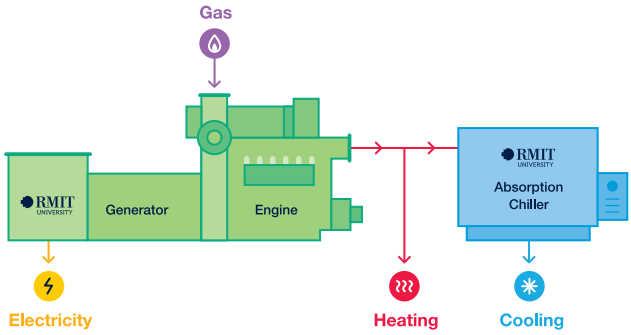
High Voltage Ring Main

RMIT has transitioned to a High Voltage network at Bundoora and City campuses, allowing large scale generation, including Trigeneration and Cogeneration facilities to be installed.



Trigeneration

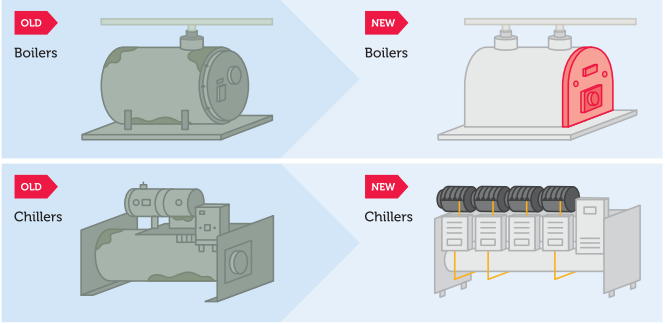
The Trigeneration facility uses natural gas to generate electricity reducing RMIT's reliance on inefficient grid power. It also produces heating and cooling, directly improving thermal comfort. Cogeneration was also installed.



We've installed innovative technology such as a High Voltage Ring Main, Trigeneration and Cogeneration facilities, coupled with a Central Thermal Plant to significantly reduce our energy consumption. These initiatives are **saving us 25 million kWh** of grid electricity, and **reducing RMIT's greenhouse gas emissions**.

Boiler and Chiller upgrades

RMIT has improved heating and cooling by installing **11 new condensing boilers** and **12 new high efficiency chillers**. This provides increased levels of comfort for students and staff, increased equipment redundancy and improved system availability.



Building Management System upgrades

Modern controls and multifunction sensors now allow RMIT to ensure our buildings **operate as efficiently as possible**. This initiative allows **greater control** of RMIT's buildings, by detecting current conditions and automatically controlling heating ventilation, air-conditioning and other equipment.