



UNSW
SYDNEY



Decreasing the Cooling Demand of Cities

Developing advanced mitigation technologies that combat the need for increased energy consumption in cities to cope with local and global climate change.

Competitive advantage

- Invaluable experience in decreasing the temperature of cities and mitigating urban heat, and a demonstrated ability to improve outdoor thermal comfort by up to 60 per cent during peak period
- Expertise in decrease the energy consumption of buildings, including:
 - A reduction in the peak ambient temperature by up to 3°C
 - Up to 40 per cent less energy consumed to cool buildings

Impact

- Producing better thermal conditions in cities while consuming a great deal less energy
- Significant reduction in heat-related mortality and morbidity

Successful applications

- Implemented in about 100 large-scale mitigation projects all around the world.

Capabilities and facilities

- A fully-equipped laboratory able to perform any kind of energy and environmental measurements for the development and testing of mitigation technologies
- State-of-the-art mobile energy bus with thermal cameras, tracer gas equipment, IAQ sensors and analysers, light and daylight measuring equipment, and a drone to perform aerial measurements
- All types of energy and environmental simulation tools for cities and building projects

Our partners

- Energy Efficiency Council
- Government of NT
- City of Parramatta
- Bluescope

More Information

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