



**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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