



**UNSW**  
SYDNEY



## Creating Zero and Positive-Energy Communities

### **Designing procedures and developing technologies to optimise energy conservation and renewable energies in communities across the world.**

#### **Competitive advantage**

- World-leading expertise in the use of systems that deliver advanced community-based renewable energy, energy-conservation and innovative, integrated controls
- Specialists in producing zero- or negative-energy requirements, minimising carbon emissions and optimising thermal and visual comfort
- Proven ability to reduce total energy needs by up to 100 per cent

#### **Impact**

- Zero-energy communities provide sustainable, healthy environments with a reduced need for capital investment and lower running costs.

#### **Successful applications**

- The design and implementation of technologies for 4 zero-energy communities in Cyprus, Italy, France and the UK

#### **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**

Several construction companies, and companies p

#### **More Information**

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