



**UNSW**  
SYDNEY



## Fighting Energy Poverty

**Energy Poverty is a serious problem for our society and puts the lives of vulnerable and low-income households under threat. Fighting it means developing appropriate low-cost technologies and combining them with advanced monitoring technologies.**

### Competitive advantage

- Significant experience in developing low-cost, efficient energy technologies that decrease energy needs and provide comfort to low-income households, at minimum cost
- Proven solutions that:
  - Decrease energy consumption by up to 70 per cent
  - Reduce carbon emissions by up to 50 per cent
  - Improve indoor thermal comfort by up to 70 per cent
  - Lower the level of indoor pollutants by up to 90 per cent

### Impact

- Meaningful improvements in the quality of life of low-income households.

### Successful applications

- Several large-scale retrofitting projects in low-income dwellings worldwide
- Collaboration with major government institutions to alleviate energy poverty

### Capabilities and facilities

- Fully-equipped laboratory able to perform any kind of energy and environmental measurements in buildings
- 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 tools to simulate energy usage in buildings

### Our partners

- Several companies that specialise in construction and the production of energy systems for buildings.

### More Information

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