



**UNSW**  
SYDNEY

## Life Cycle Engineering of Energy Supply and Energy Technologies

**Expertise across sustainable manufacturing, sustainable product development, life-cycle engineering and manufacturing, and closed-loop manufacturing. Extensive experience implementing renewable energy and energy storage solutions for the manufacturing industry.**

### Competitive advantage

- First in Australia and one of the first in the world developing hands-on capability in:
- Holistic energy efficiency assessment in manufacturing
- Renewable energy integration into factories through micro-grids
- Management of energy supply and demand in factories
- Cradle-to-cradle battery supply chain sustainability, integrity and transparency
- Environmental impact assessment of battery supply chains

### Impact

- Saving of millions of dollars for the manufacturing industry.

### Successful applications

- Implementation of energy efficiency technology
- Achieving industry-wide impact through helping NSW government as an invited expert advisor for energy efficiency program
- Contributing technical expertise in the Australian Government industrial energy efficiency program

### More Information

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