

Contact Us

NiCE Green Tech

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Follow our work on LinkedIn:



Research, Trials & Applications

Research-Driven Innovation

NiCE Green Tech works with leading partners including:

- University of Technology Sydney
- Royal Botanic Garden Sydney
- Western Sydney University

Applications

URVAL is ideal for:

- Horticulture & nurseries
- Urban green walls
- Urban agriculture
- Controlled environment agriculture
- Municipal landscaping

How URVAL Is Made

1. Source-separated urine collection
2. Stabilisation and sanitation (UF-MBR)
3. Nutrient concentration through dewatering
4. Quality assurance and safety testing

NiCE Green Tech

Transforming Waste into Growth

Innovative. Sustainable. Circular.

Pioneering nutrient recovery for a cleaner, greener future.

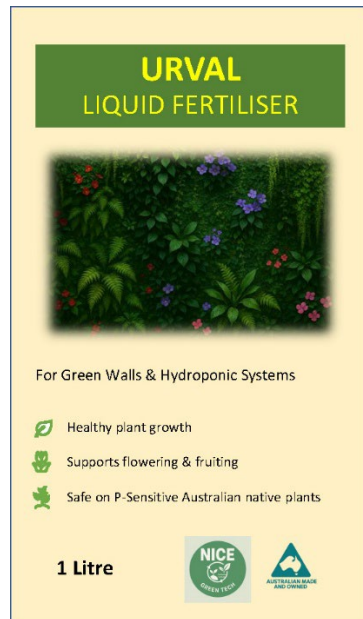


**Nice Green
Tech**

Sustainable Nutrient Technologies

About Us

NiCE Green Tech is advancing a sustainable nutrient economy by converting human urine into safe, effective fertiliser through advanced membrane technologies. Our work is grounded in the **ARC NiCE Hub**, a national initiative transforming wastewater into a valuable resource for agriculture and horticulture.



Introducing URVAL

U Are Valuable — Urine Is Valuable

URVAL is a next-generation liquid fertiliser produced from **source-separated urine** using:

- Ultrafiltration (UF)
- Membrane Bioreactor (MBR)
- Dewatering systems

Key Benefits

- ✓ Pathogen-free
- ✓ No odour
- ✓ No viruses or micropollutants
- ✓ Nutrient-rich and plant-ready

Used successfully on:

- UTS green walls
- Vegetable and herb growth trials
- Hydroponics



Why Urine-Derived Fertiliser?

Why It Matters

Human urine contains **~80% of nitrogen** and **~50% of phosphorus** found in household wastewater, making it a powerful source for sustainable fertiliser production.

Environmental Impact

- Reduces load on wastewater treatment plants
- Minimises sewer corrosion
- Reduces nutrient pollution
- Provides a climate-positive alternative to traditional fertilisers

Field Performance

University trials show urine-derived fertilisers like URVAL can **outperform conventional nitrogen fertilisers** while supporting soil health.