



# Environmental Sustainability Strategy

## CONTEXT

**UWA's commitment to sustainability will be captured in an Environmental Sustainability Strategy to include targets and plans for energy, water, waste, biodiversity and climate resilience.**

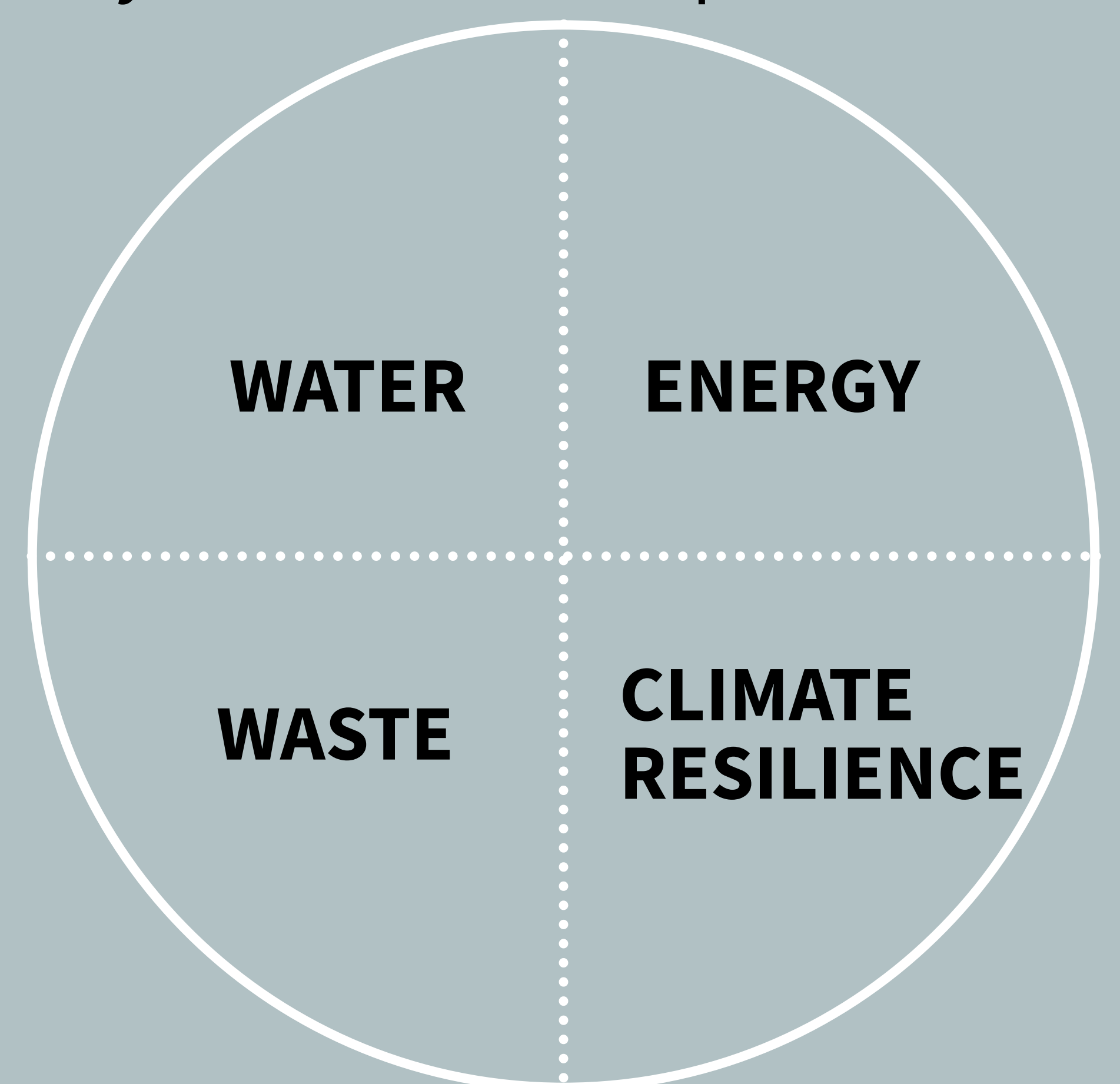
## CONSULTATION

- Energy - external engineering consultants and UWA research including Australian Urban Design Research Centre, Centre for Energy, School of Mechanical Engineering, Power and Clean Energy Research Group, Renewable Energy Vehicle Project
- Water - CRC Water Sensitive Cities, Water Corporation
- Waste consultant - Greenbatch, Uniclub, Unihall, Guild, Future Green Solutions

## SCOPE

Provide a Strategy which progressively reduces the environmental impact of UWA's operations.

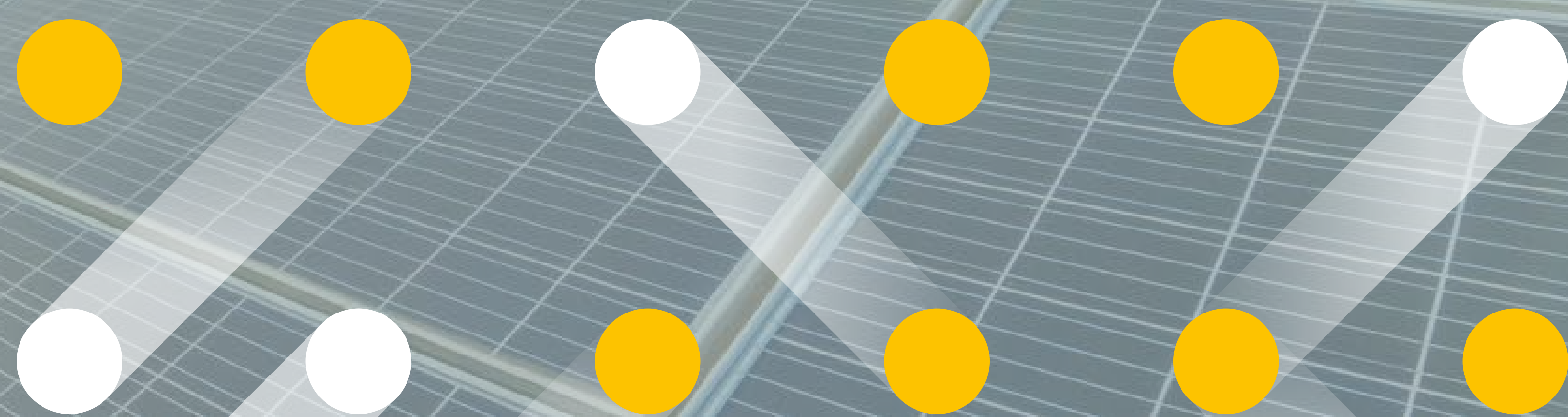
Key elements of the plan:



## VISION



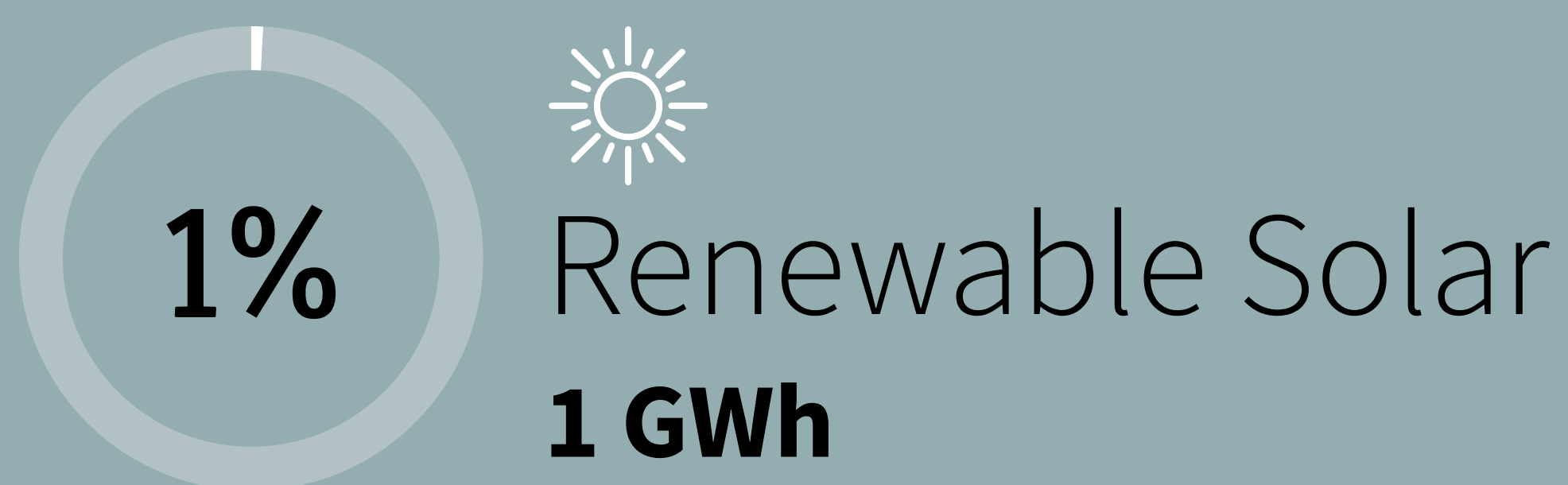
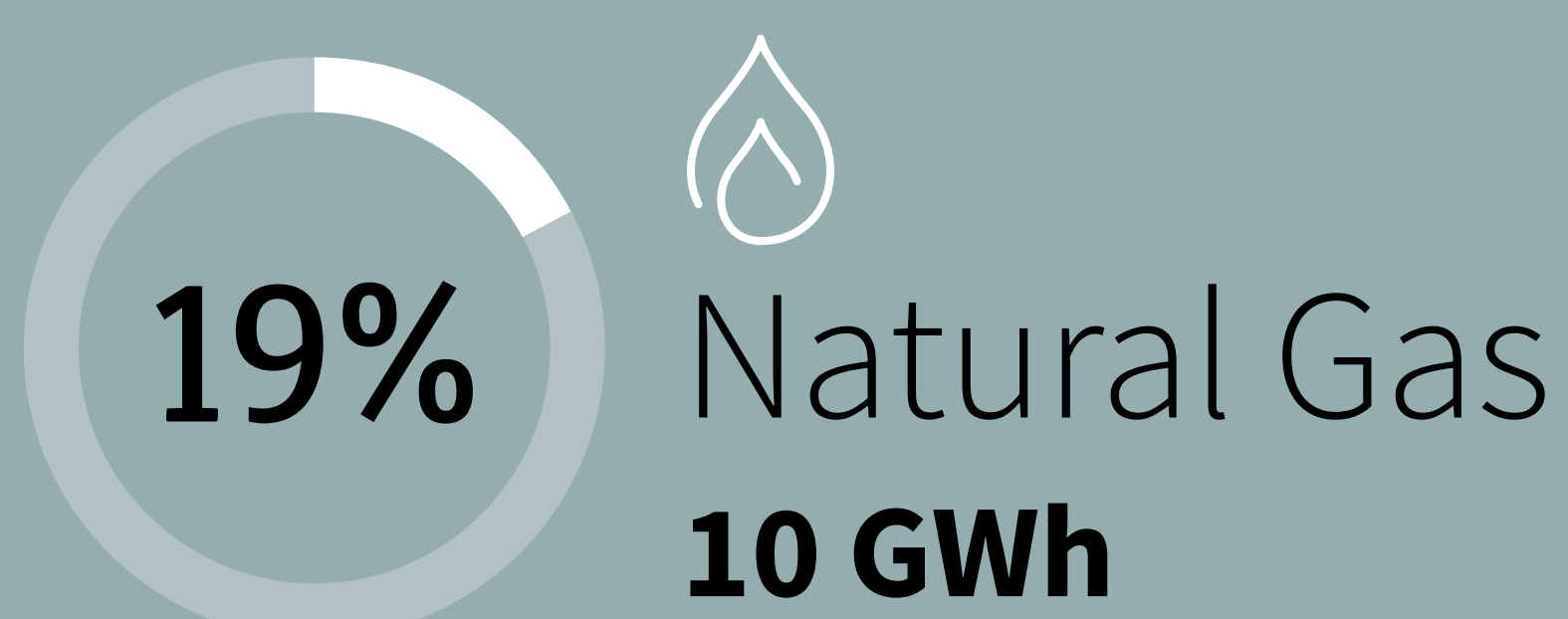
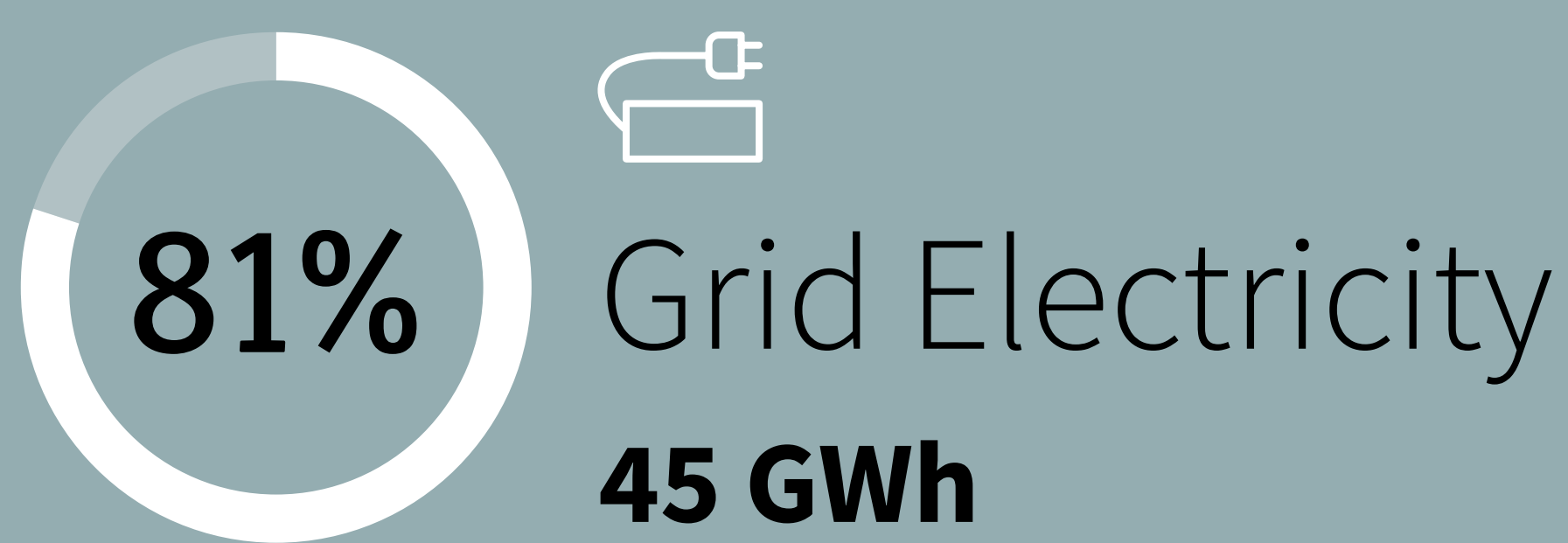
***An Interactive & Environmentally Conscious Campus of the Future***





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## CURRENT ENERGY PRINCIPLES



41,000 tonnes carbon dioxide equivalent (CO2-e)

\$8M million dollars in energy charges

## 2025 ENERGY TARGET

To be an Energy Carbon Neutral Campus by 2025

This will be achieved through a focus on

**Efficiency Upgrades**

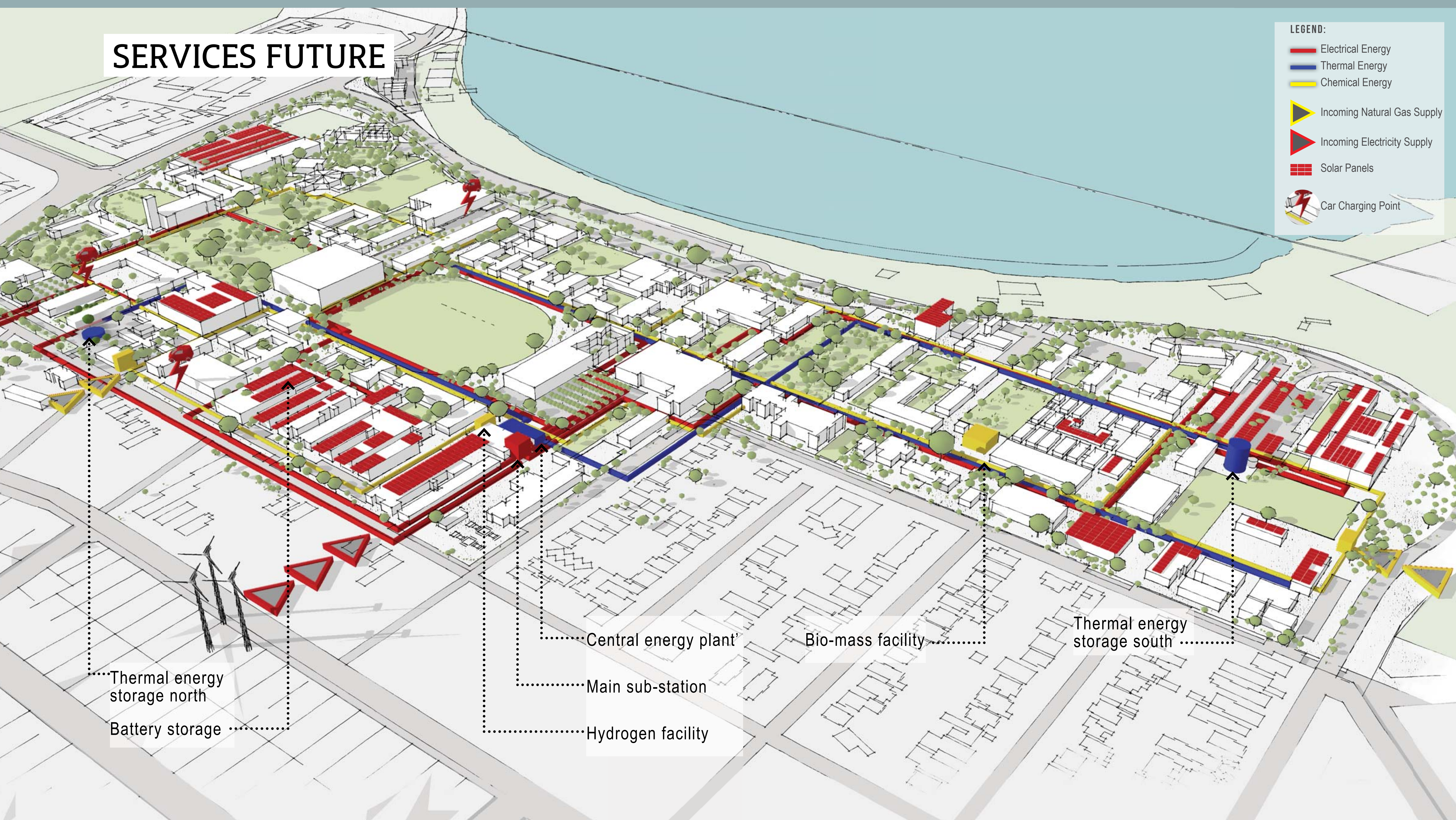
**Renewables**

**Storage**

**Innovation**

**Metering**





















## SERVICES FUTURE





# Environmental Sustainability Strategy

## TARGETS

	 <b>Energy</b>	 <b>Waste</b>	 <b>Water</b>	 <b>Biodiversity</b>	 <b>Climate Resilience</b>
TARGET	Energy carbon neutral by 2025	10% waste reduction and 70% diversion by 2025	Net water balance beyond 2030 (TBC)	No net loss beyond 2030 (TBC)	Respond to modeled climate risks in 2080
EXAMPLE INITIATIVES	 <b>Reduce Energy Use</b> Lighting Retrofits Mechanical Upgrades Building Improvements	 <b>Reduce Waste</b> Sustainable Procurement Single Use Plastics Dining on Campus	 <b>Reduce Water Use</b> Toilet Retrofits Cooling Towers Swimming Pools	 <b>Reduce Impacts</b> Hard landscapes Tree removal Soil contamination	 <b>Reduce Effects</b> Services Design Utilities Planning Landscape and Irrigation
	 <b>Renewables</b> Solar PV Wind Biomass	 <b>Reuse and Recycle</b> Organics Processing Material Reuse Waste to Energy	 <b>Water Sources</b> Recycled Water Rain / Stormwater Lakes / Rivers	 <b>Enhance landscape</b> Vegetation Reserves Animal habitats	 <b>Prepare Plans</b> Infrastructure Plan Asset Management Plan Wildfire Management Plan
	 <b>Load Balance</b> Thermal Storage Battery Storage Electric Vehicles	 <b>Circular Economy</b> Circular Economy Index Technical Loop Biological Loop	 <b>Water Cycle</b> Integrated Water Management Water Sensitive Urban Design	 <b>Biodiversity Plan</b> Ecological database Urban Forest Status	 <b>Climate Response</b> Business Continuity Health and Wellbeing

