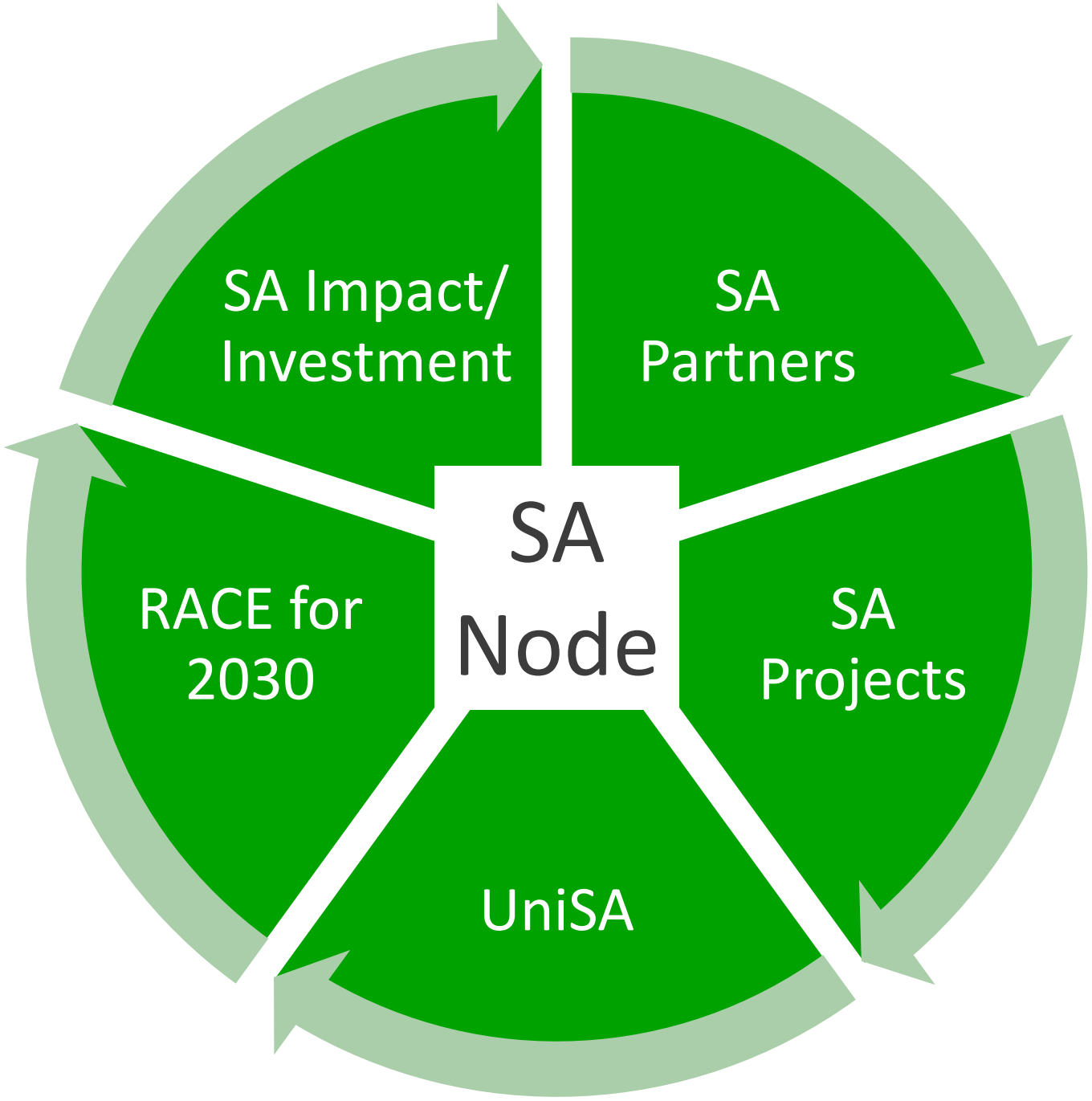
SA Node

25 October 2022



RACE for 2030
RELIABLE AFFORDABLE CLEAN ENERGY

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RACE for 2030

RACE for Business:
CO2 refrigeration for Supermarkets

GLACIEM COOLING TECHNOLOGIES

coles

SEELEY INTERNATIONAL

AUSTRALIAN ALLIANCE FOR ENERGY PRODUCTIVITY

University of South Australia

QUT Queensland University of Technology

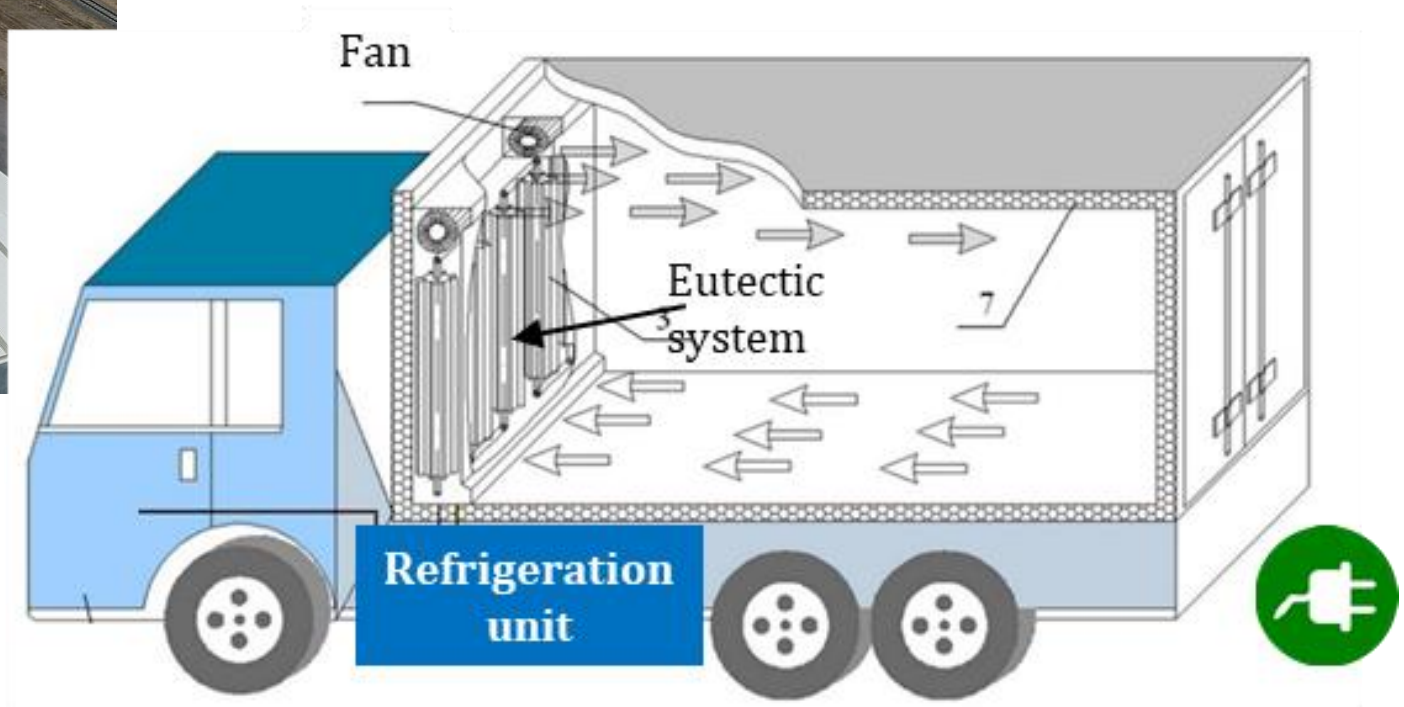
Energy efficient indirect evaporative CO_2 refrigeration system

The two main supermarkets chains in Australia have moved to using CO_2 only systems for refrigerated display case cooling.

However due to the nature CO_2 as a working refrigerant operational efficiency decreases as the ambient air temperature increase above 22˚C

This project will model and validate the performance of a new-generation, energy efficient CO_2 refrigeration system. The system incorporates an indirect evaporative cooling system, combined with CO_2, to deliver, up to 16% improvements in system efficiency and 24% reduction in peak demand.

RACE for Business: Electrifying the Cold Chain



In development:
SA Pilot/Demonstration Projects

Energy upgrades for Australian homes

South Australia
Energy Efficiency in Remote Housing

Strategic EV integration
(Stage 2&3)

South Australia
Electric vehicle charging in holiday parks

University of South Australia

SOUTH AUSTRALIA

Government of South Australia
Department for Energy and Mining

University of South Australia

SOUTH AUSTRALIA

Government of South Australia
Department for Energy and Mining

SA Power Networks

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