

# KEPPEL INFRASTRUCTURE-NUS LOW CARBON LIVING LABORATORY

The Keppel Infrastructure-NUS Low Carbon Living Laboratory will leverage the NUS Kent Ridge campus to create, testbed, and scale up the deployment of commercially viable innovations in energy management and decarbonisation

## SMART AC/DC HYRID MICROGRID

Integrate renewable and distributed energy resources (DC microgrid) into the existing AC grid without disruption



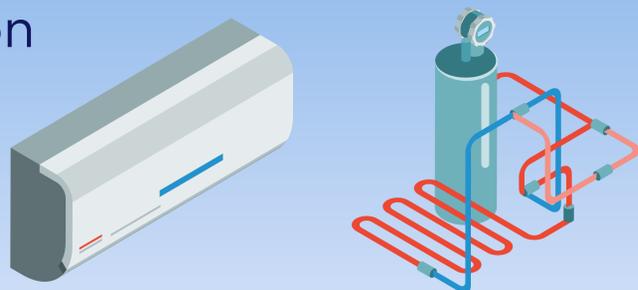
## SMART ELECTRIC VEHICLE (EV) CHARGING STRATEGIES

Balance the needs and constraints of the existing electrical network, and charging demand and charging costs for EV owners



## DISTRICT COOLING SYSTEM (DCS)

Provide DCS solutions with innovative thermal energy storage using proprietary phase change materials as an energy storage medium, outdoor cooling technology and intelligent process optimisation



## SEAWATER DESALINATION PRETREATMENT TECHNOLOGY

Experiment on enhanced seawater desalination pretreatment technology for carbon dioxide sequestration and scalant removal

