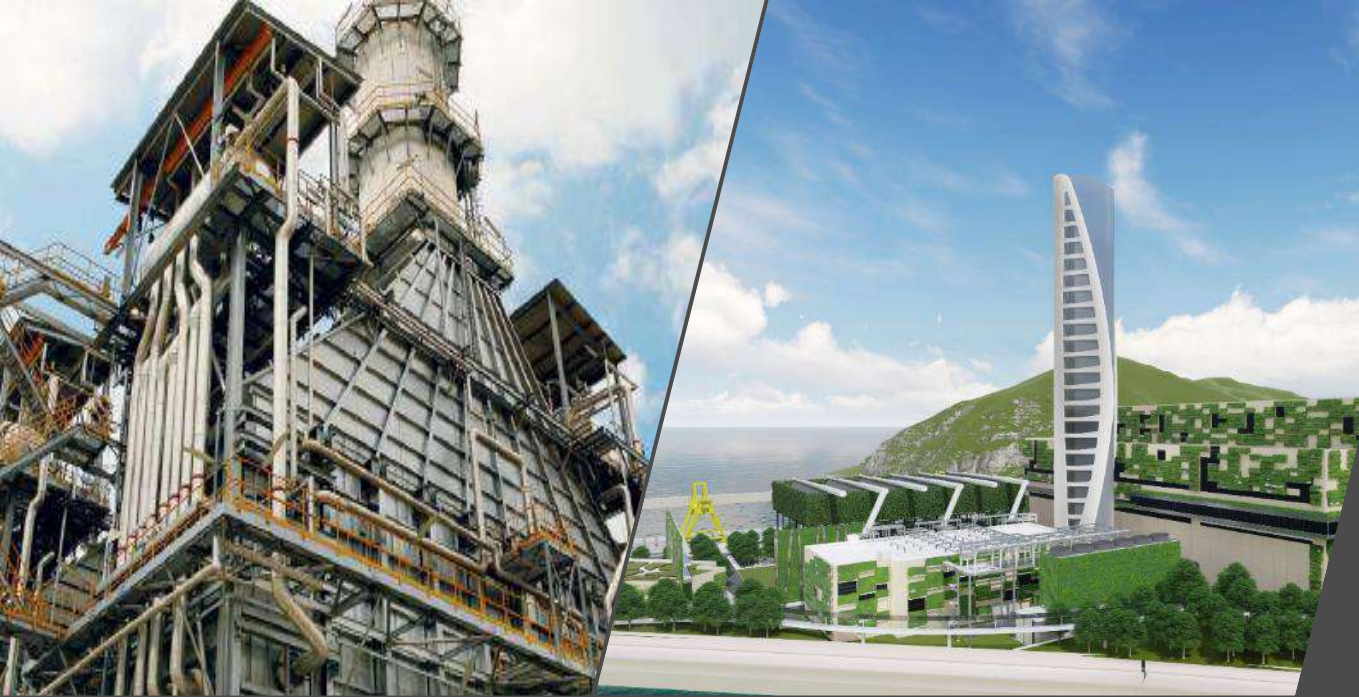




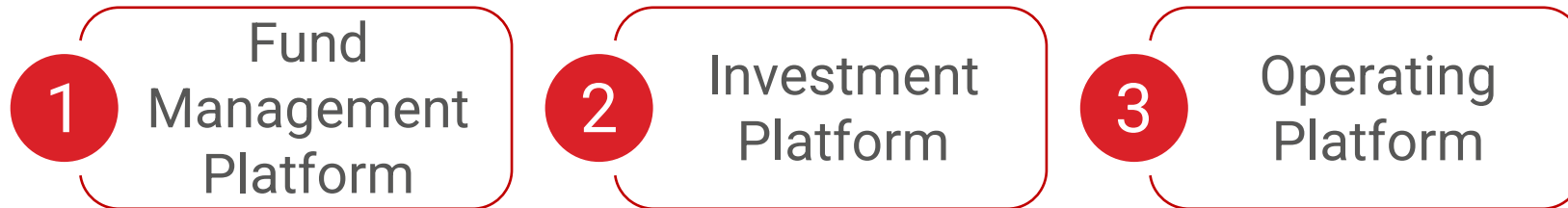
Building a Sustainable Future

Oct 2023

Who we are

A GLOBAL ASSET MANAGER & OPERATOR

Comprising three platforms:



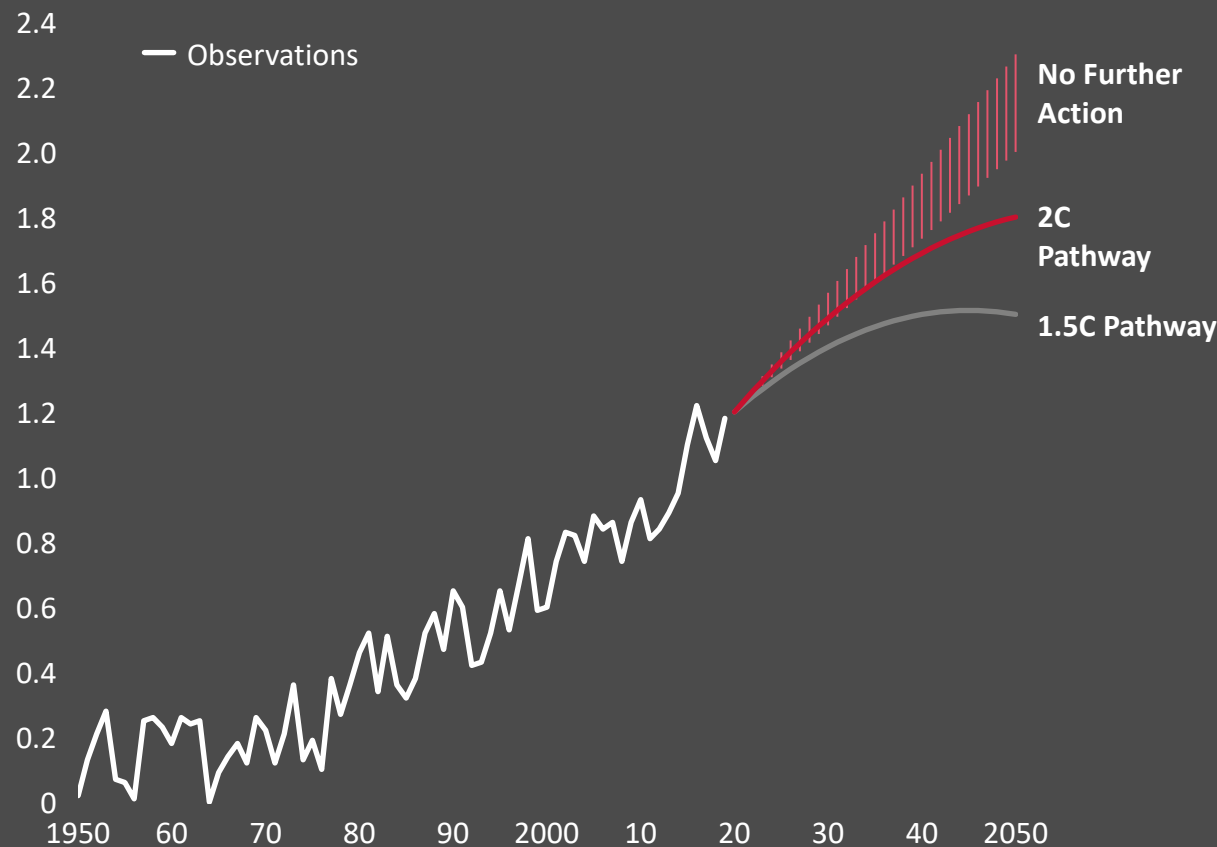
with deep operating capabilities in **Infrastructure**,
Real Estate and **Connectivity**.



The next decade will be a decisive period to both decarbonize and prepare for unavoidable hazards

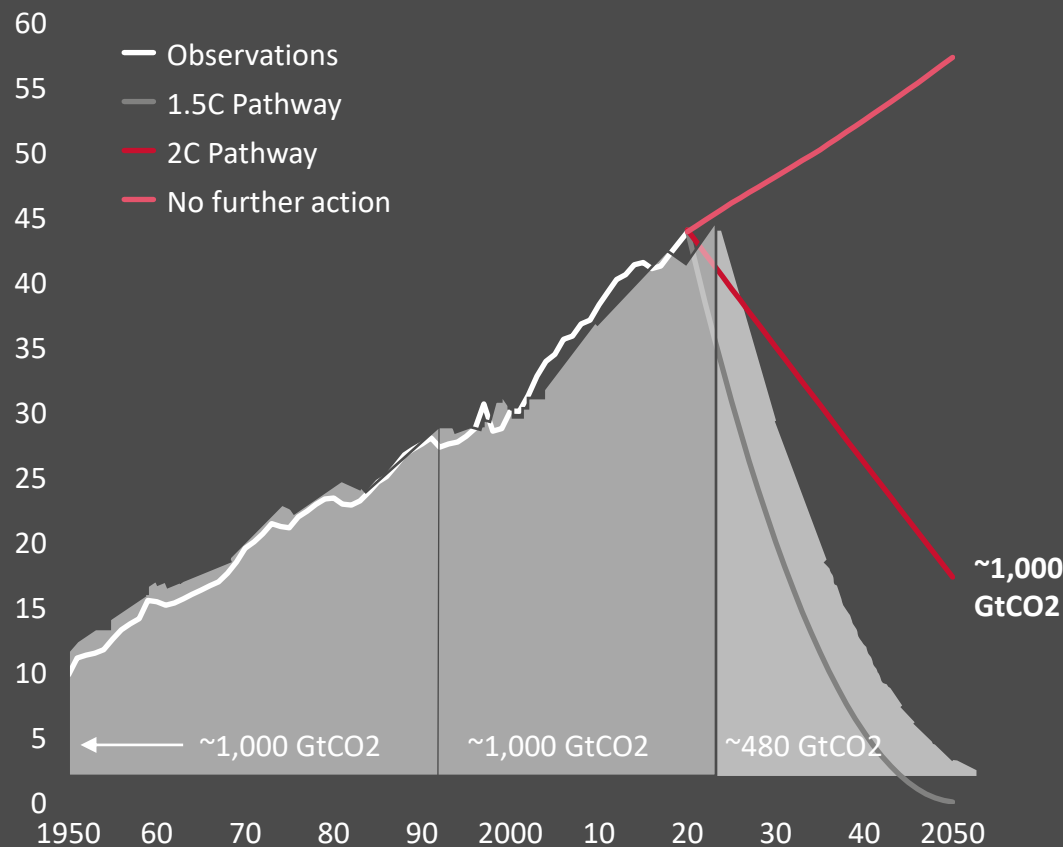
Resilience and adaptation

Rise in average global temperature (°C)



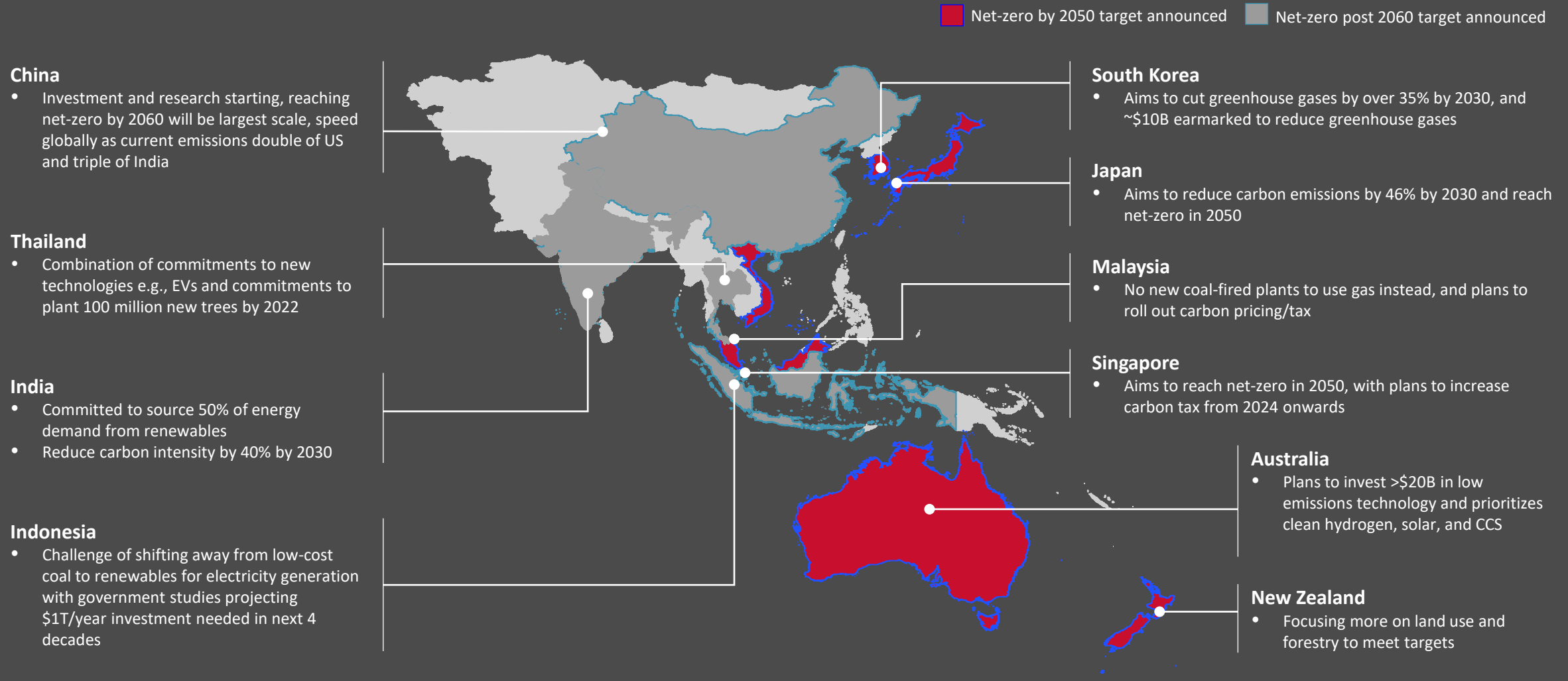
Mitigation

Annual CO₂ emissions (Gt CO₂)



Source: CO₂ emissions: Carbon Dioxide Information Analysis Centre, Oak Ridge National Laboratory. Friedlingstien et al. "Global Carbon Budget 2019." Earth Systems Science Data. (2019). Forward projections are illustrative, based on carbon budgets estimated from Rogelj et al (2019) and the IEA CP Scenario, following Hausfather and Peters (2020). Temperature Record: NASA Goddard Institute for Space Studies (GISTEMP –2019) . Warming for "No further action" is the range between RCP8.5 and RCP4.5 ranges, as IEA CPS plus estimates for non-energy emissions following Hausfather and Peters (2020) puts cumulative emissions roughly 3/4ths of the way between RCP8.5 and RCP4.5.

In Asia, a growing number of net-zero commitments drive the pace of decarbonization



Our Sustainability Solutions Ecosystem

Covering 360 degrees of Sustainability Needs



Use Cases



KEPPEL BAY
TOWER

ZERAX INSIDE

The relationship between the propeller blade shape and the fan casing is crucial for the performance. The high pressure in the casing, produced by the fan, is recovered within the mixing (or the impeller) section, and is key to the

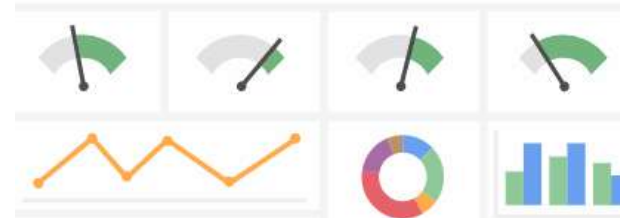


Smart/LED Lighting



100%
Green Leasing

Building Dashboard



100%
Green Leasing

Lighthouse Projects: Keppel Infrastructure @ Changi

Development overview



KI @ Changi is one of Singapore's first **Positive-Energy Building (PEB)**. The building has been designed with sustainability solutions in mind, resulting in a **50% reduction in water and energy consumption**



Green energy

650k

kWh/year potential through building-integrated photovoltaics (BIPV)



Cooling

60%

reduction in energy savings
Auto-cleaning condenser tubes and highly efficient AC



Insulation

33.7

w/m², which is considered a low ETTV and WWR value, with minimum glass façade



Lighting

Sun pipes, occupancy sensors and LED lights – and vertical greenery creates prime indoor environment with significant reduction in energy consumption



Circularity

Rainwater harvesting, automatic drip irrigation, irrigation with reclaimed wastewater to reduce consumption



Decarbonization

438t

of CO₂ emissions reduction annually



Singapore Green Labelling Scheme and Singapore Green Building Certification
Sustainable materials such as organic compound paint, zero-ozone depletion potential refrigerant were used for the building

Today's takeaways

1

Sustainability is for everyone; everyone has a role to play

- Brownfield/Greenfield assets both can be decarbonized
- Zero or minimal CAPEX can be achieved via innovative business models

2

Cost savings are a by-product of being sustainable

- Through designing for energy efficiency and utilizing on-site generation assets, cost savings can be realized
- Up to 40% energy consumption reduction in some instances

3

In a complex energy landscape, Digital Tools are critical for enhancing asset availability and boosting energy efficiency

- Through AI/ML algorithms alone, up to 10% energy savings can be realized.
- Digital tools allowing remote command and control also allow for better business continuity planning and efficiency

We have a clear vision of how your **business and portfolio** could be transformed to be leaner and greener in collaboration with Keppel

Your properties could become the next big green developments – making your property

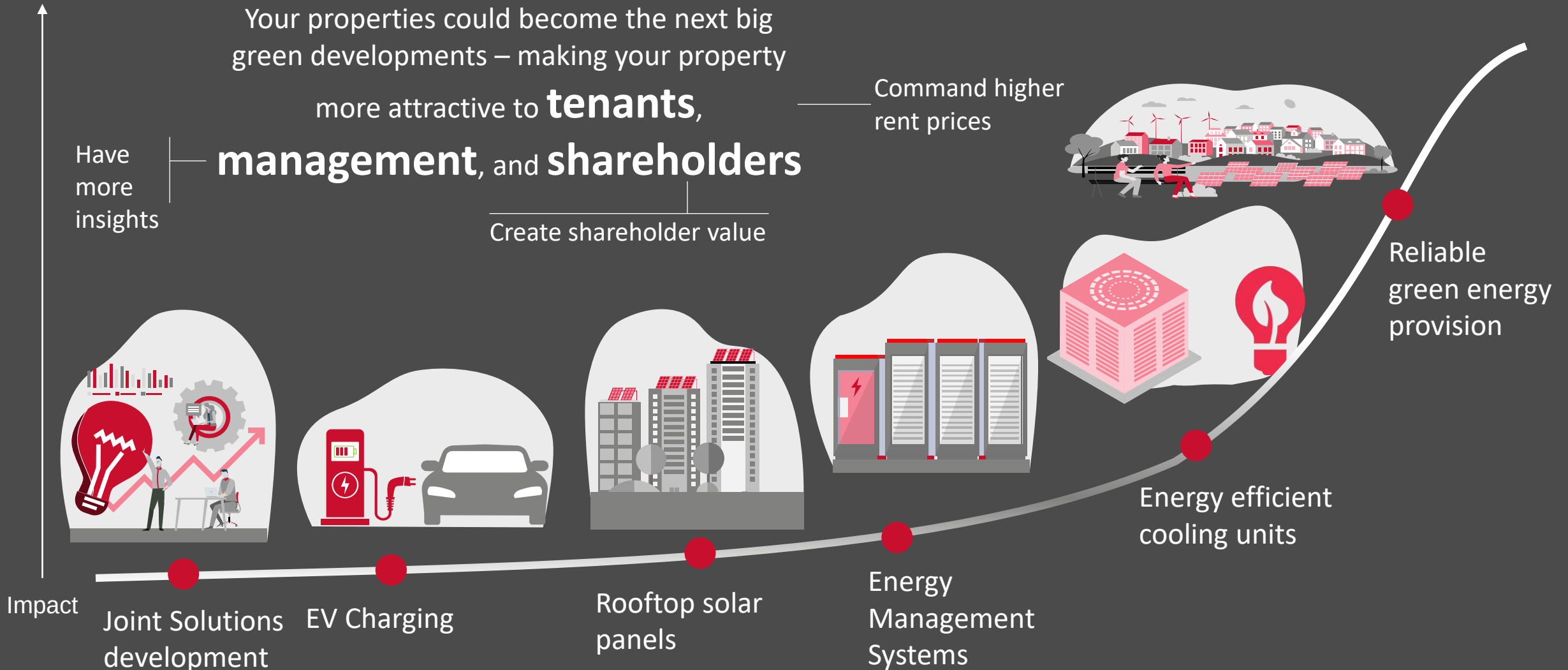
more attractive to **tenants,**

management, and **shareholders**

Command higher rent prices

Have more insights

Create shareholder value





Accelerating your decarbonization journey

Connect with us

✉ EaaS@kepinfra.com



Follow us on





**Your pathway to sustainable,
reliable energy starts with
Keppel Infrastructure**