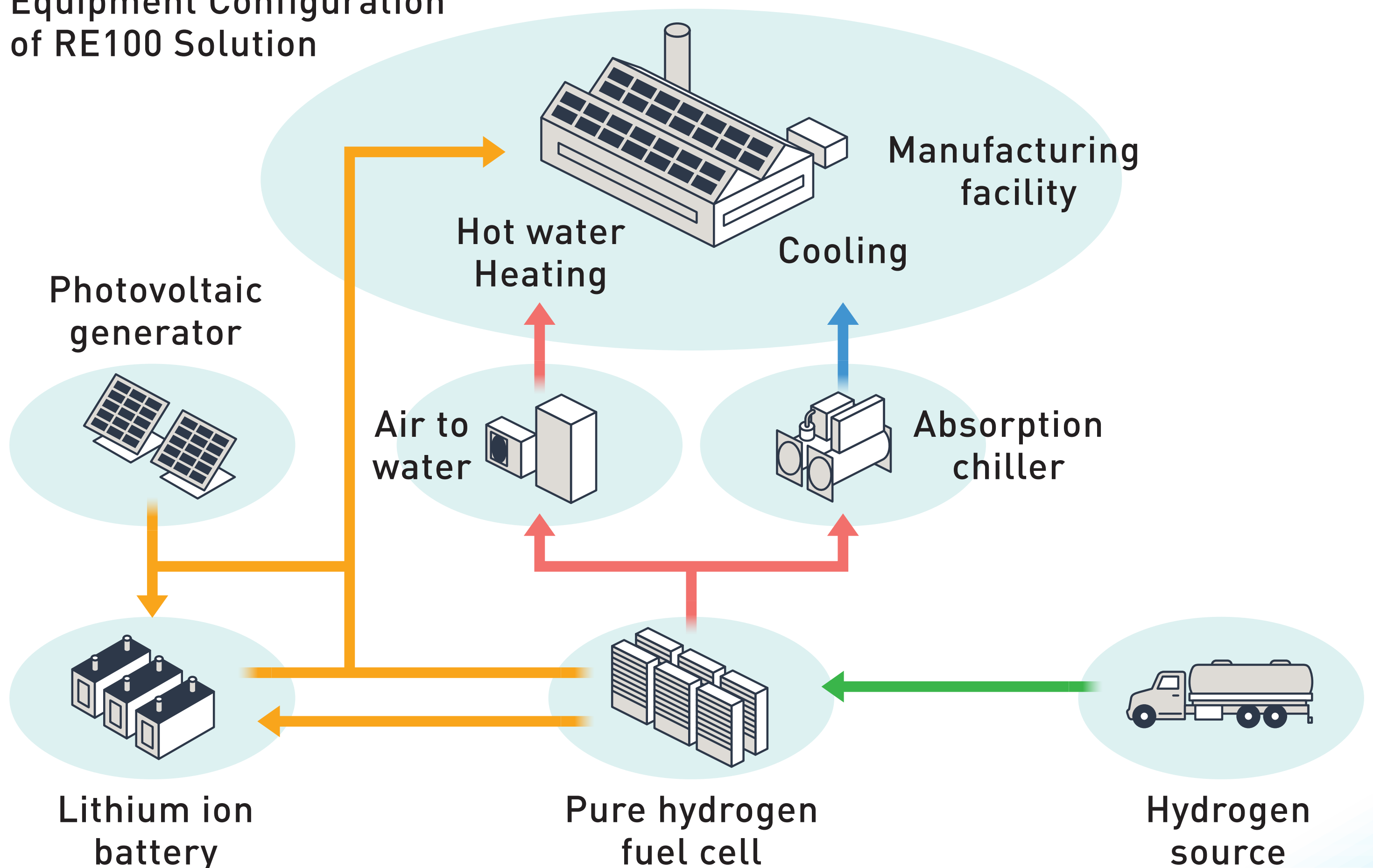


RE100 Solution with 3 types of Batteries

Supplies 100% of the electricity consumed in business activities from renewable sources

- 01 Optimal combination of pure hydrogen fuel cell generators, photovoltaic generators, and lithium-ion batteries
- 02 Demonstration of the RE100 solution started through collaboration of three types of batteries (as of April 2022)
- 03 Started demonstration of using heat generated by pure hydrogen fuel cells as a heat source for absorption chillers (as of July 2024)

Equipment Configuration of RE100 Solution



Global Expansion Tailored to Regional Characteristics

Demonstration of the RE100 solution in Japan and Europe (plan)

- 01 The world's first*¹ demonstration aimed at achieving 100% renewable energy in factories through the full-scale use of hydrogen
- 02 Verification of power supply and demand management in response to weather changes and electricity conditions
- 03 Improvement of overall energy efficiency by using heat generated during power generation for heating and hot water supply

*1 Demonstration conducted with the full-scale use of hydrogen as a fuel for in-house power generation to supply the electricity required for factory operations. (As of March 31, 2022, surveyed by Panasonic.)

Demonstration facility in Japan



Project launch	April 15, 2022
Facility area	Approx. 6,000m ²
Peak power	Approx. 670kW
Annual power consumption	Approx. 2.7GWh
Pure hydrogen fuel cell	495 kW
Photovoltaic generators	570 kW
Lithium ion batteries	1.1 MWh

Demonstration facility in the United Kingdom



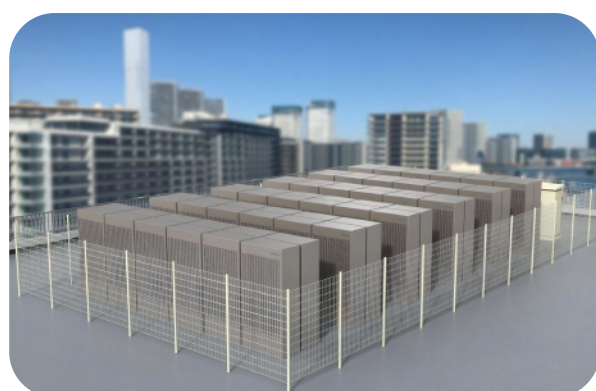
Project launch	2024 (Under construction)
Peak power	Approx. 280kW
Annual power consumption	Approx. 1.0GWh
Pure hydrogen fuel cell	105 kW
Photovoltaic generators	290 kW
Lithium ion batteries	1 MWh



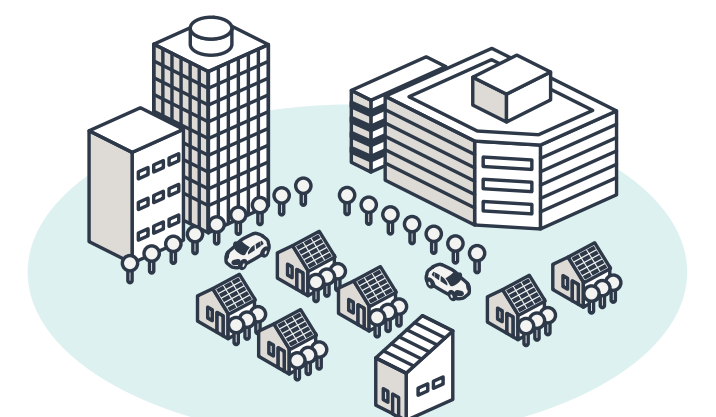
Future Development of RE100 Solutions

Contributing to carbon neutrality and people's happy lives

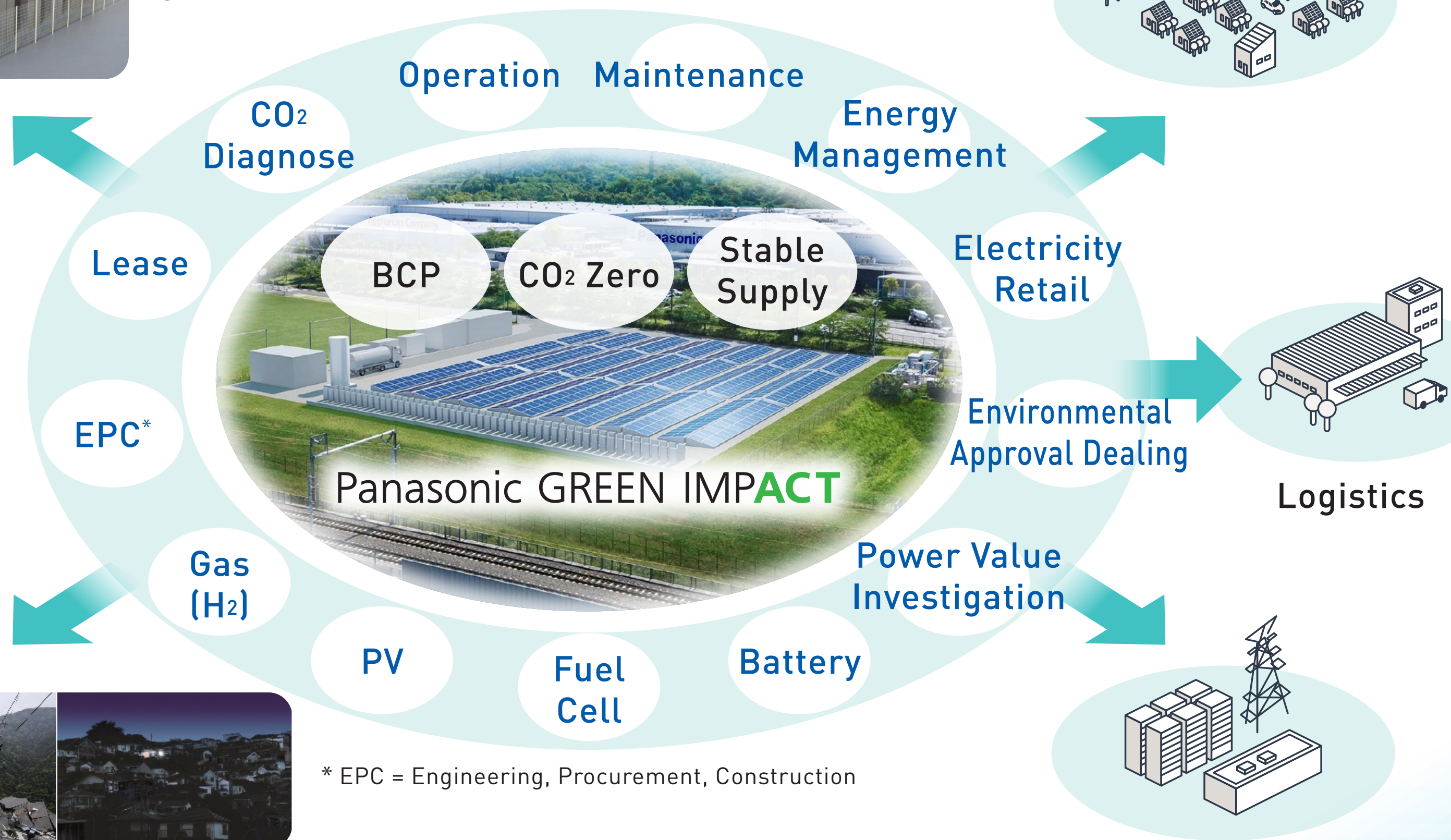
- 01 Improving disaster resilience with distributed energy packages for local production and consumption
- 02 Contributing to society's carbon neutrality and stable energy supply
- 03 Providing solutions to a variety of customers with local partners



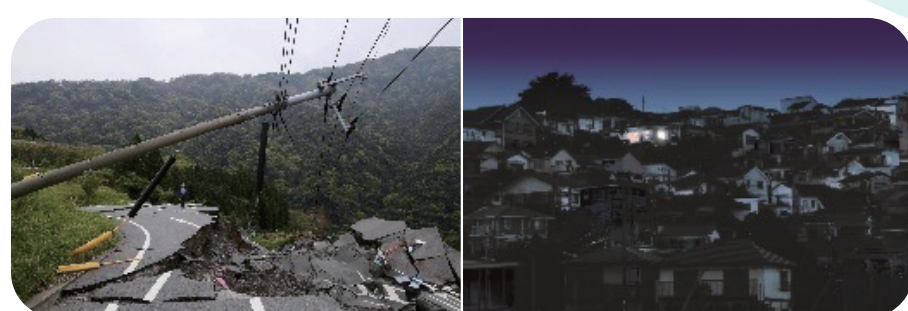
Off grid small power generation, VPP



Community Smart Town



* EPC = Engineering, Procurement, Construction



Shelter

Resilience

BCP
Data Center, Antenna Station