Paris Session 2022

Energy Management System for Multi-region Digital Power Supply targeting to Carbon Neutrality

SCC5 PS3 +Q2

How is the transition required in the next 20 years to be addressed?

Is the scope and scale of the transitions fully understood and how can it be assessed and what are the common or expect barriers to transition?

“Transition required in the next 20 years” is Carbon Neutrality

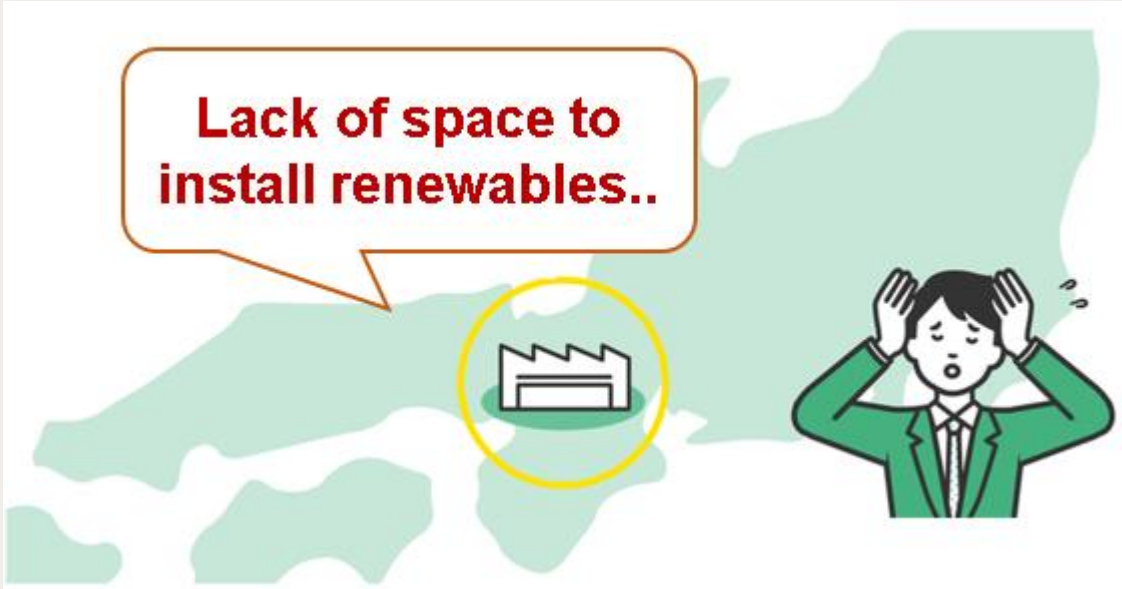
Needs for Carbon Neutrality

- In recent years, many companies have declared emissions reduction targets.
- Reducing carbon emissions is becoming a pre-requisite within global supply chain.

Some companies are installing on-site renewable energy for their targets.

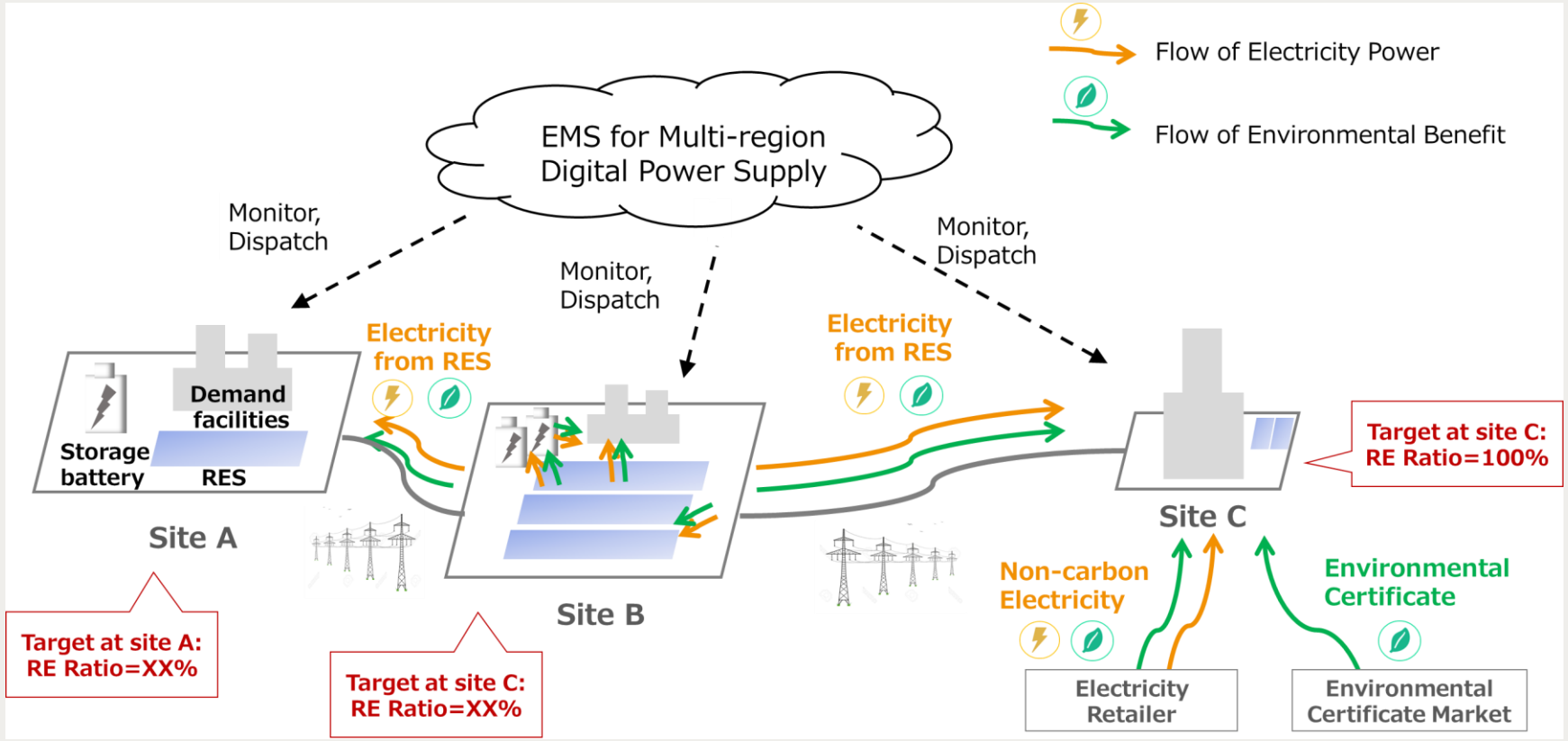
However..

- There is not always enough space to install a large amount of renewables near electricity consumption.
- Renewables supply unstable power for the necessary demand at each time.



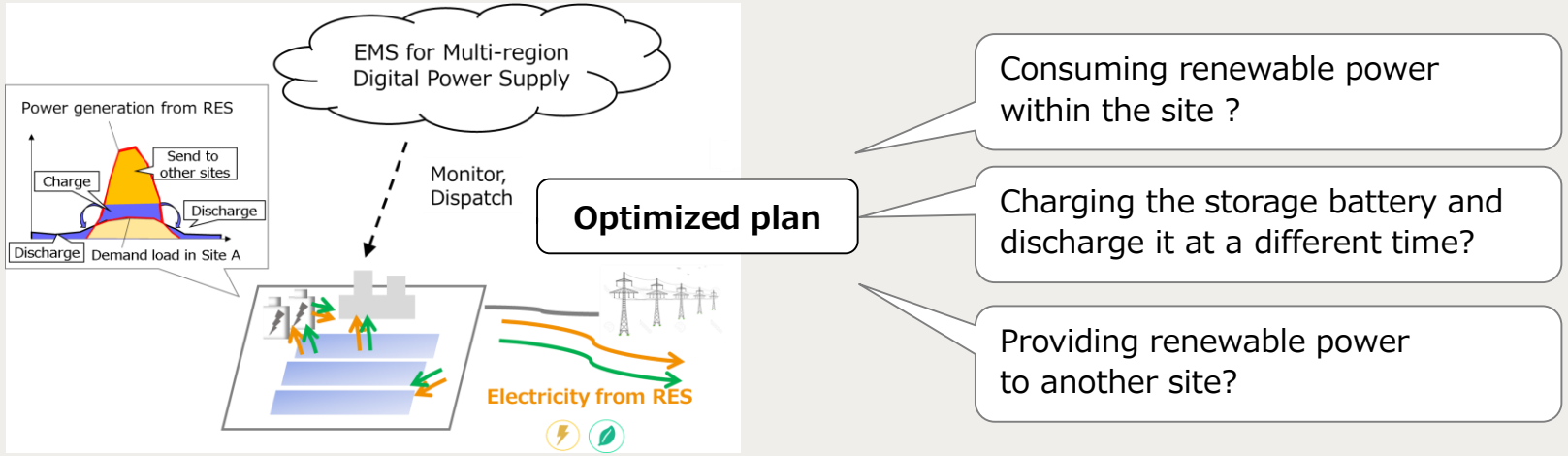
Solution for Carbon Neutrality: "EMS for Multi-region Digital Power Supply"

"EMS for Multi-region Digital Power Supply" allows companies with multiple sites
- to achieve each site's decarbonization target (Environmental value) , and
- to optimizing power supply and storage battery operations
  while exchanging renewable power among multiple sites. (Electricity energy).



Features of “EMS for Multi-region Digital Power Supply”

(1) To optimize the physical energy and environmental benefits of electricity simultaneously



(2) To calculate the environmental value of electricity <u>in 30 minute increments</u> instead of the usual monthly or annual increments

- The environmental value of electric power can be managed <u>accurately and transparently</u>.
- It contributes to introduce more renewable energy by synchronizing demand with the time when the amount of generating renewable power is high in a shorter period of time.