

What superconducting cables can do for a decarbonized society

Realization of a decarbonized society

A typical transmission loss is about 5%
in Japan's power transmission and distribution network.

48billion kWh/year



Power generation equivalent to

five nuclear power plants (100 MW / one plant)

What we are aiming for

Creating for the Future

Generation



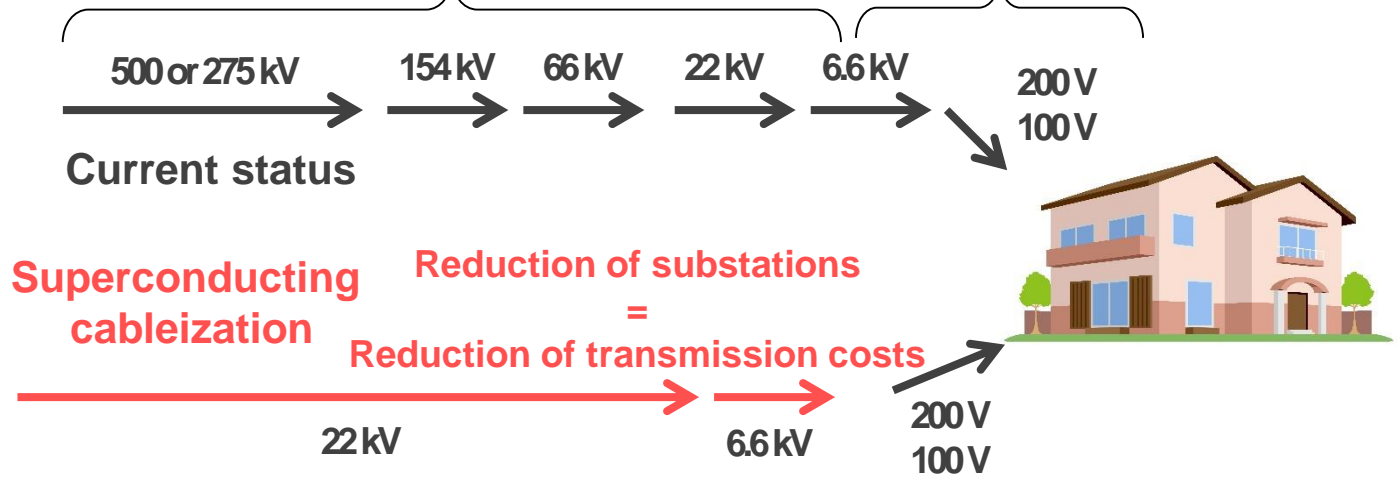
Hydroelectric power generation



Thermal power generation

Transmission

Distribution



Contribution of



Power sector cable field

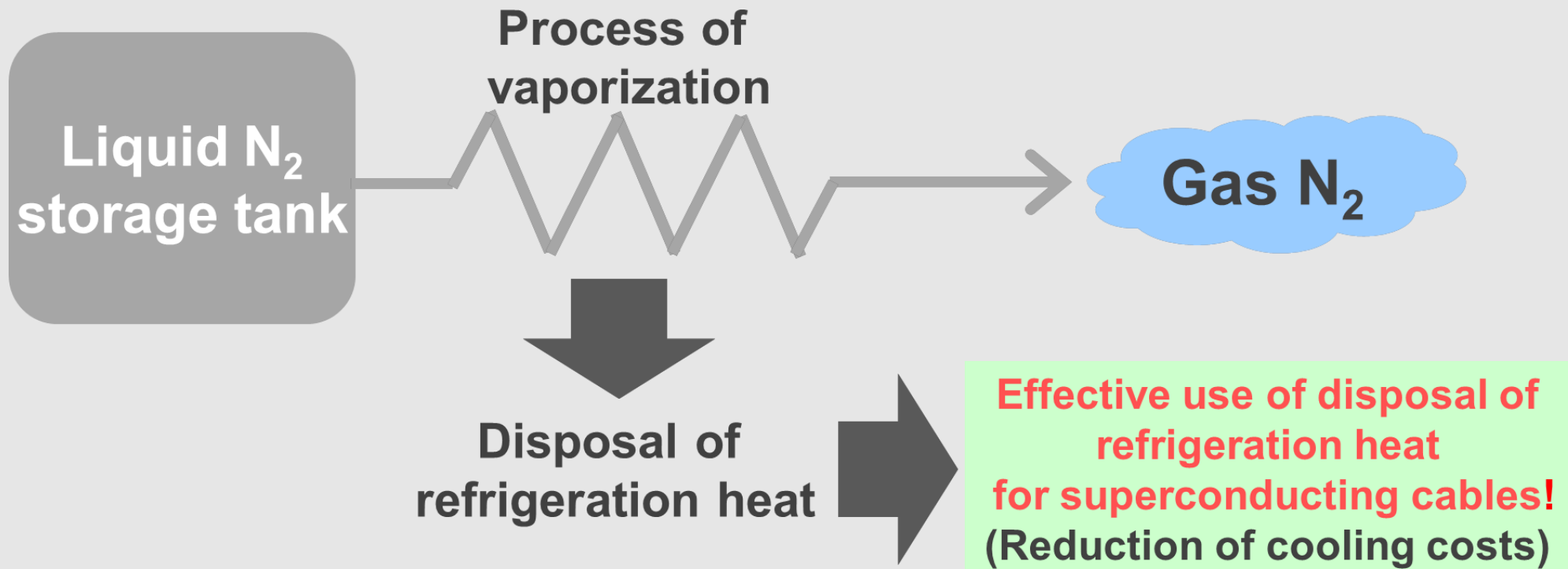
Superconducting cables have the potential to significantly **reduce power transmission loss**, and can contribute to the **realization of a decarbonized society.**

Effective use of refrigeration heat for cooling

For the widespread use of superconducting cables, **effective utilization of refrigerant** is also important!!

<General usage of gas nitrogen in factories>

When nitrogen gas is used in a factory, it is stored in liquid nitrogen and vaporized for use.



**Creating for a sustainable decarbonized society
through the widespread use of superconducting cable systems**



Creating for the Future

**Expanding the "Circle of Trust"
in a Decarbonized Society by integrating
existing technologies and superconductivity**