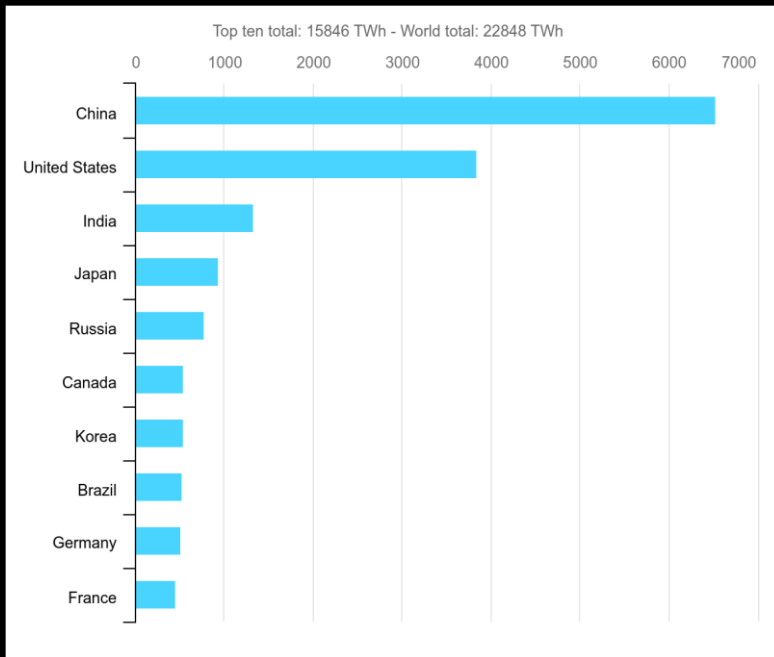
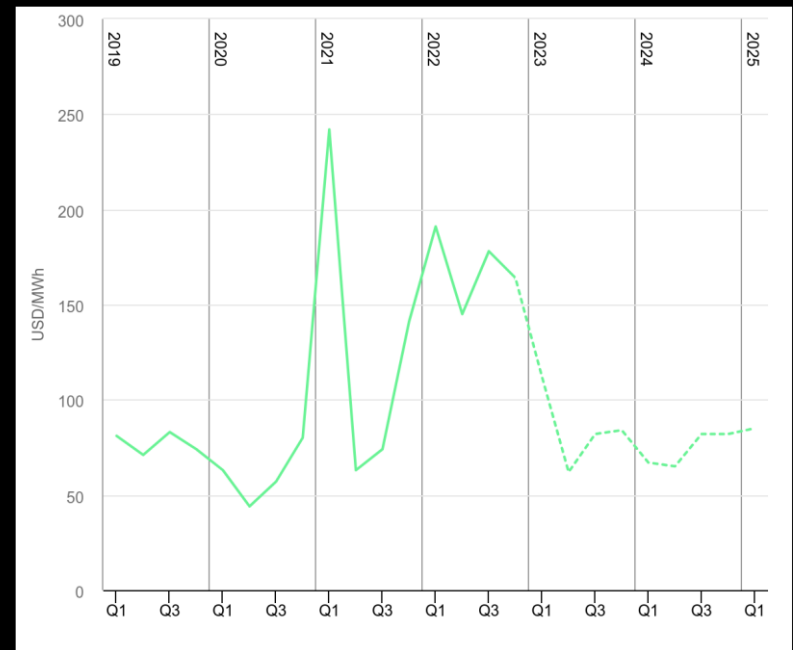




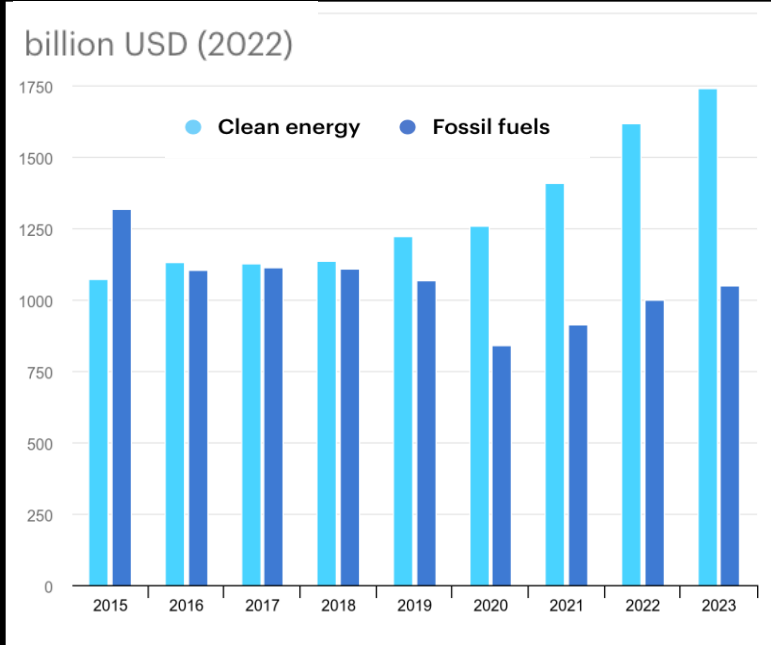
Empowering Tomorrow with
Intelligent Technology



IEA, Top ten electricity consuming countries, 2019, IEA, Paris <https://www.iea.org/data-and-statistics/charts/top-ten-electricity-consuming-countries-2019>, IEA. License: CC BY 4.0



IEA, Quarterly average wholesale prices for selected regions, 2019-2024, IEA, Paris <https://www.iea.org/data-and-statistics/charts/quarterly-average-wholesale-prices-for-selected-regions-2019-2024>

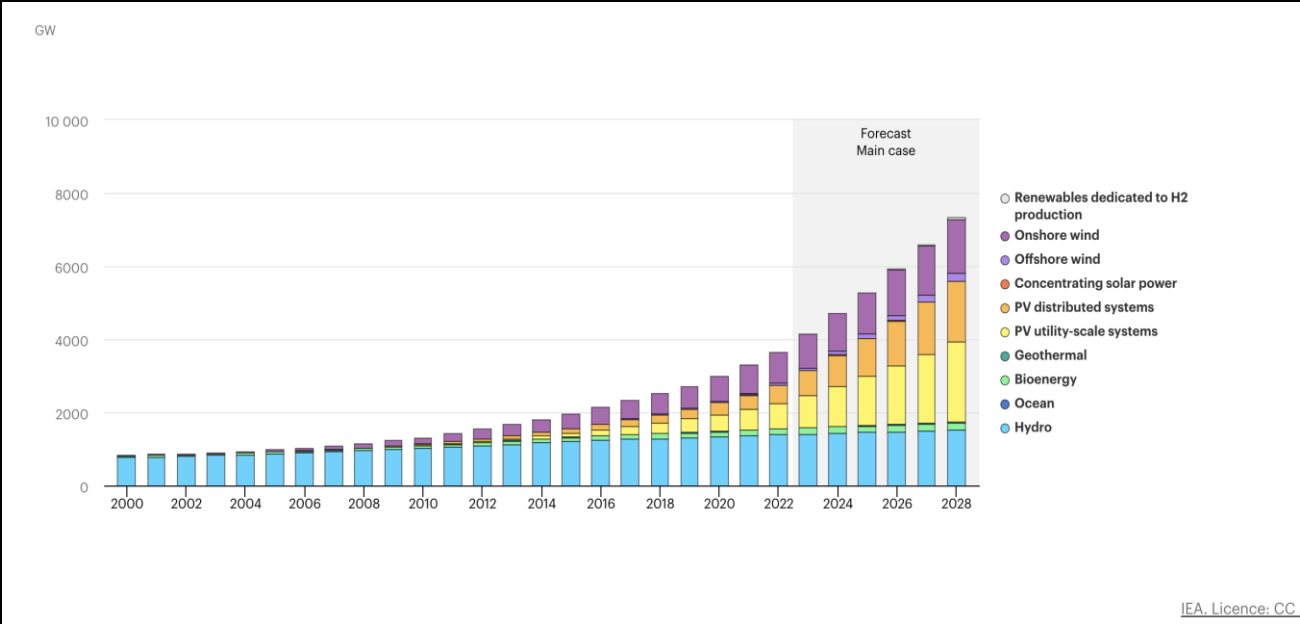


IEA, Global energy investment in clean energy and in fossil fuels, 2015-2023, IEA, Paris
<https://www.iea.org/data-and-statistics/charts/global-energy-investment-in-clean-energy-and-in-fossil-fuels-2015-2023>, IEA. Licence: CC BY 4.0

Share of renewable energy in power generation, 2022	Share of renewable energy in power generation, 2028
29%	42%
Share of VRE in power generation, 2022	Share of VRE in power generation, 2028
12%	25%

IEA (2024), Renewable Energy Progress Tracker, IEA, Paris <https://www.iea.org/data-and-statistics/data-tools/renewable-energy-progress-tracker>

Investment in transition to clean energy



IEA (2024), Renewable Energy Progress Tracker, IEA, Paris <https://www.iea.org/data-and-statistics/data-tools/renewable-energy-progress-tracker>



Social Problems

- ① Power Imbalance from renewable energy
- ② Power cost rising
- ③ Decarbonization

Transforming Cities into Virtual Batteries



Providing New Revenue



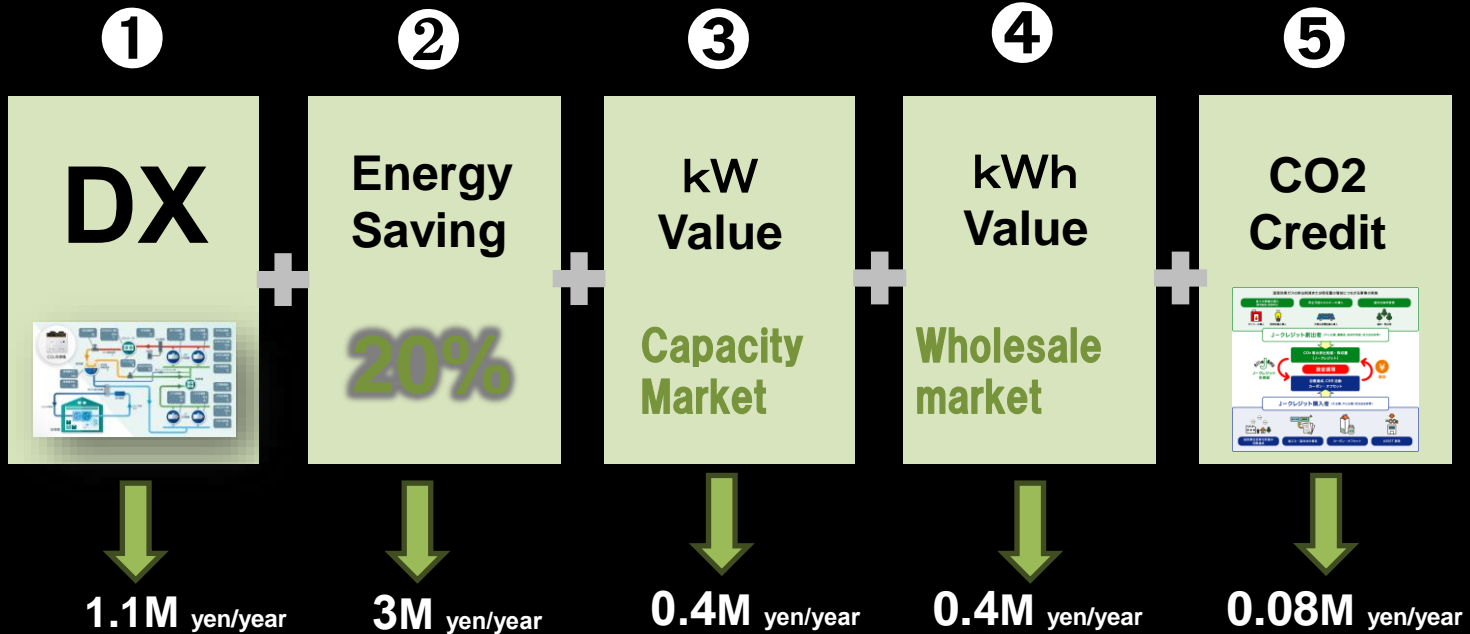
IoT + DR

AI based Cutting edge IoT

Demand Response

One facility transform to multiple Value

Examples of effects



In the case of one equipment capable of operating a 100kW DR resource



**Building, Hotel,
Office**



**Factory
Warehouse**



**Shopping mall
Store**

+



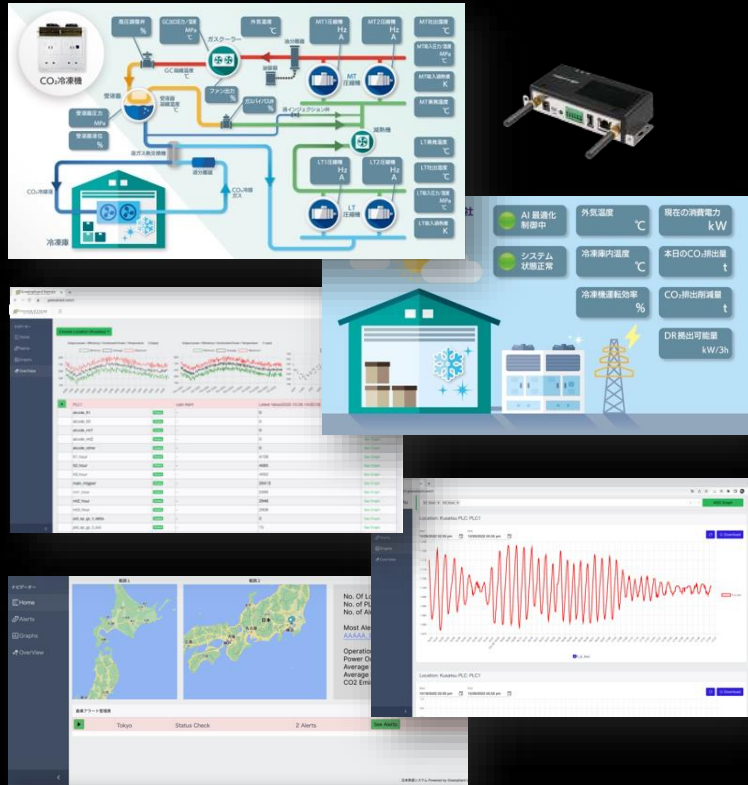
**GREENPHARD
ENERGY**

||



Virtual Battery

Greenphard Intelligent IoT



Intelligent IoT



 **Cutting edge hardware control technology**

 **Optimal control using AI and Machine Learning**

 **Creating profit with DR**

Greenphard Intelligent IoT

Bridging Power Demand Side and Supply Side



For supply side

Provide DR resource

For demand side

Energy Saving
DX/DR
Revenue

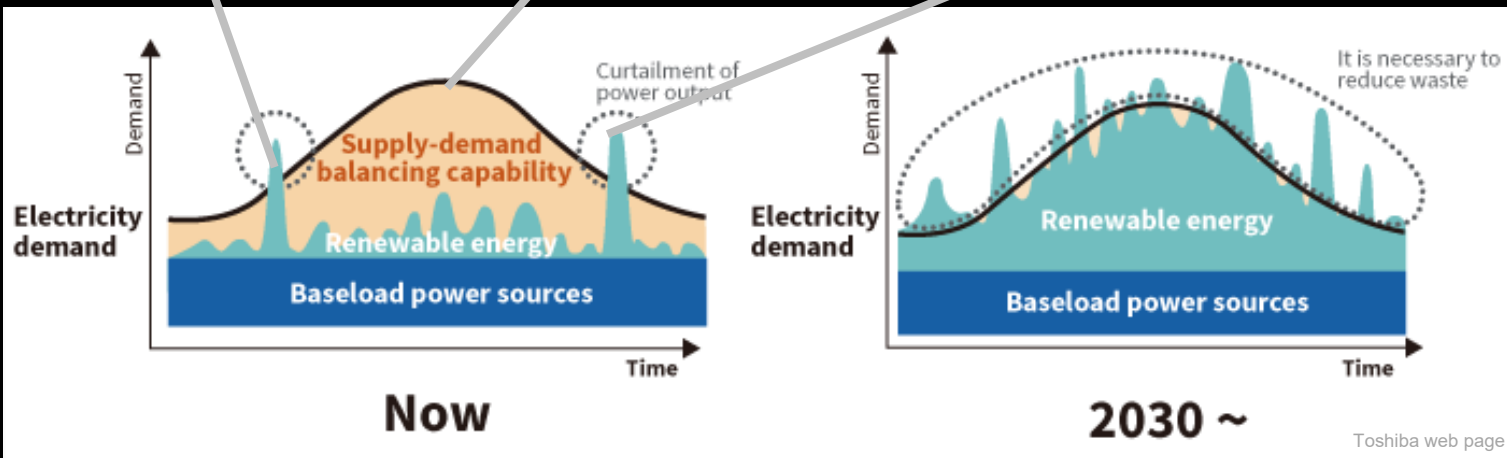
Powerful



ZZZ

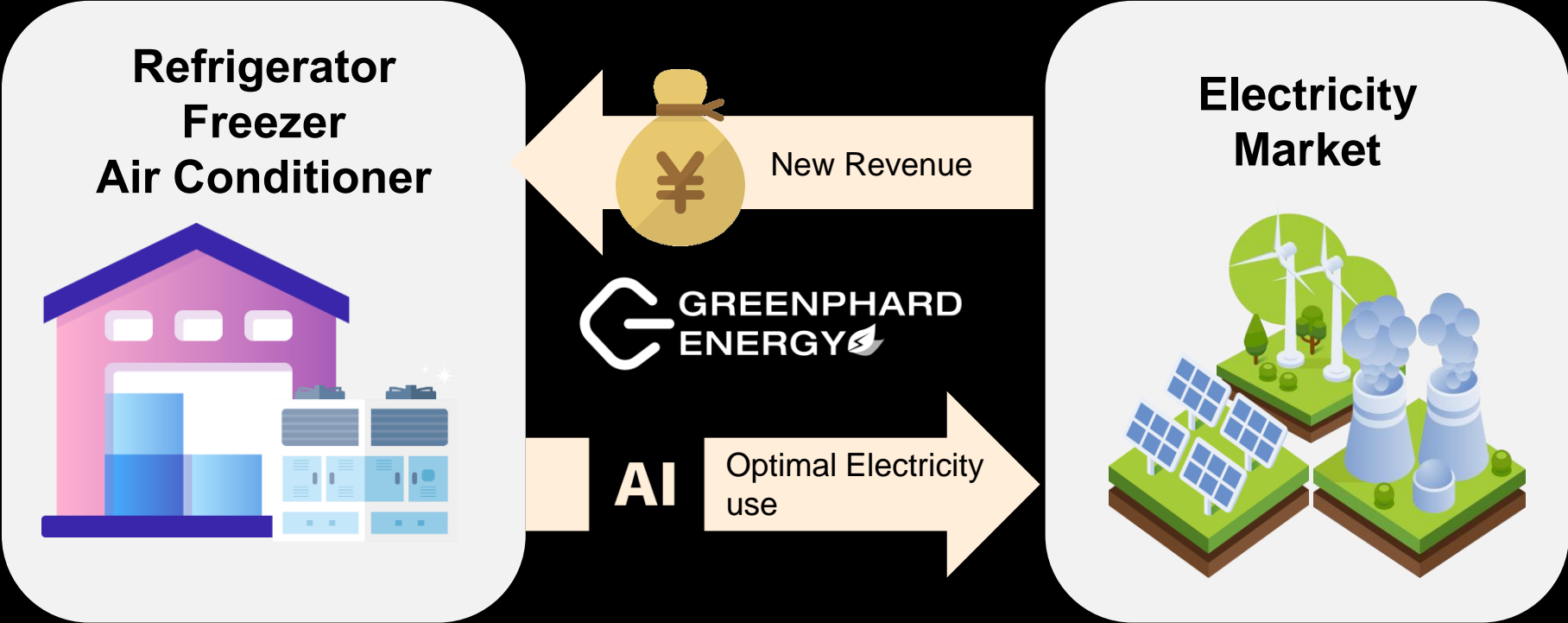


Powerful



Demand Response

We handle Electricity Resource for Balance



User Benefit

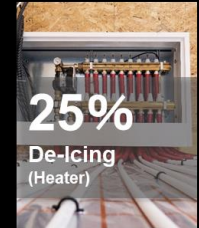
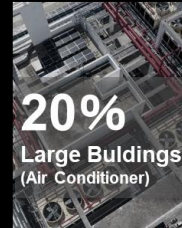
Not only “Energy Saving” Create “New Revenue”

Refridgerator
Freezer
AirConditioner



Energy Saving

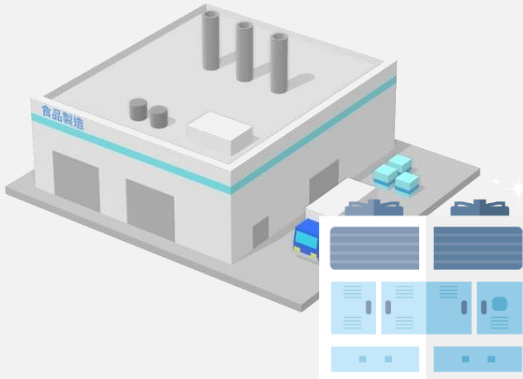
► Optimization Effect



DR

Food factory example

Refrigerator
Freezer
Air Conditioner



Energy Saving



1 億円 (0.7M USD)

DR



7 千万円 (0.5M USD)

CO2 reduction (Food factory example)

1,150 t/site-year

Our Client and DR resource

Target 2028

1000 MW

3 Million Households

8,000 Facilities

- 
- A map of Japan is shown with numerous red location pins scattered across the islands, indicating the presence of client and DR resources. The pins are concentrated in the Kanto, Kansai, and Chubu regions.
1. Major food company
 2. Global hotel brand
 3. Vegetable factory
 4. Real estate developer
 5. Intelligent building
 6. Offshore wind farm
 7. Shopping mall
 8. Warehouse
 9. Japanese conglomerate
- ...



Social Problems

① ~~Power Imbalance from renewable energy~~

➔ **More renewable energy**

② ~~Power cost rising~~

➔ **Not only saving
Create New revenue**

③ ~~Decarbonization~~

➔ **Direct contribution**

**We are here to make change
in how world use energy**

Transforming Cities into Virtual Batteries



Providing New Revenue