

# AAKEL

EV Charging Optimization Engine – AAKEL eFleet

Certified



Corporation



AAKEI

# Realizing Decarbonization through Digital Innovation

Company Aakel Technologies Inc.

Establishment August 1, 2018

CEO Representative Director Ryoji Miyawaki

Employees 45

Capital 60M ¥ (reserve capital included)

HQ Daimyo, Chuo-ku, Fukuoka City, Japan

Location Fukuoka Lab Shodai, Sawara-ku, Fukuoka City, Japan

Tokyo Office Ebisu-nishi, Shibuya-ku, Tokyo, Japan

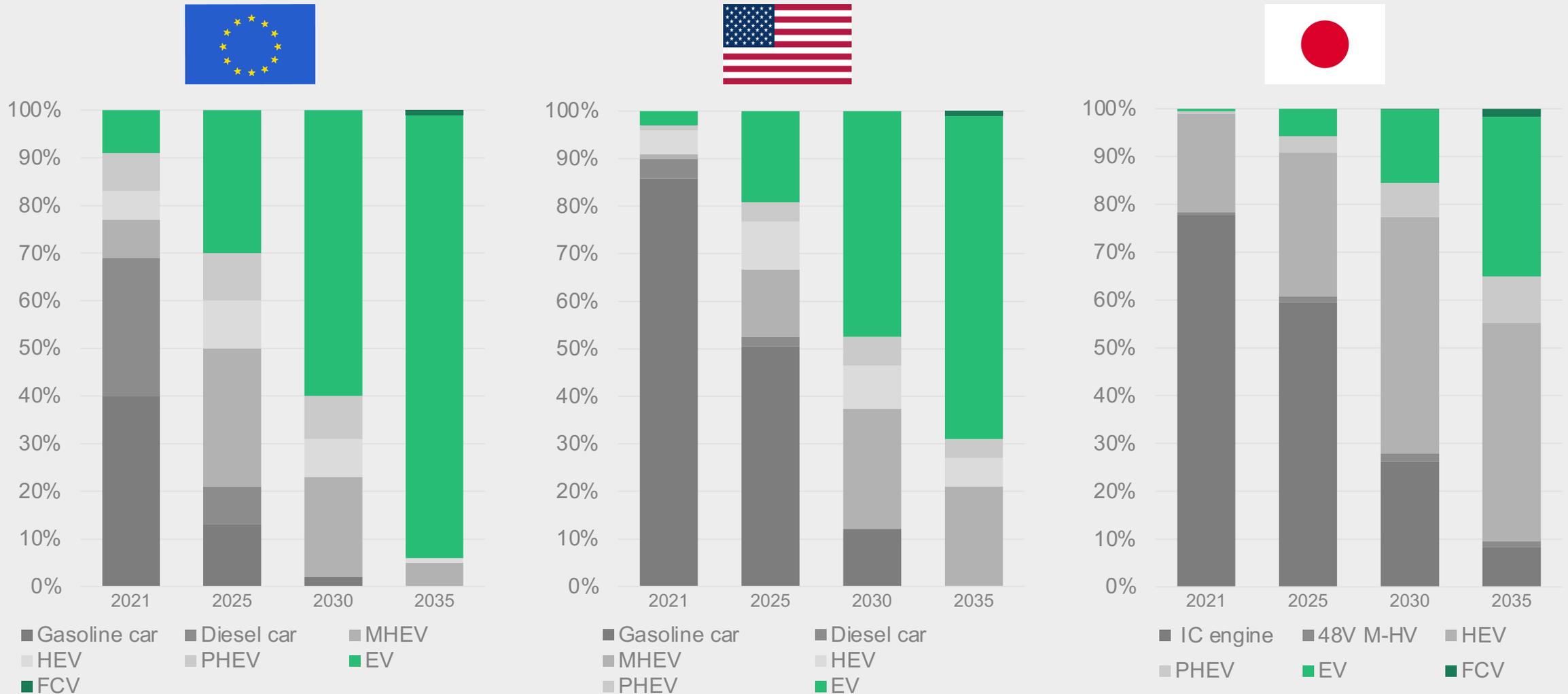
Business Description

1. Software services (eFleet, eCarbon)
2. Support for reducing GHG emissions
3. Support for corporate transformation

# Background – Accelerating the shift towards carbon neutrality with EV

A global wave of EV shift towards carbon neutrality is occurring worldwide. Japan has been introducing policies to promote the EV shift, and it is predicted that this momentum will continue to accelerate in the future.

Global EV adoption forecasts



Source: Fuji Keizai Group (Japan), BCG Analysis (US, EU)

## General restrictions with EV charging

For the promotion of EVs in corporate and public vehicle fleets, comprehensive solutions are necessary.

### Charging time

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To cover 100km it takes 3 to 6 hours with a normal charger and 20 to 30 minutes with a fast charger.

### Chargers and power contracts

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Increasing charger output is necessary to shorten charging time: electrical facilities need to be updated, or power contract amounts must be adjusted.

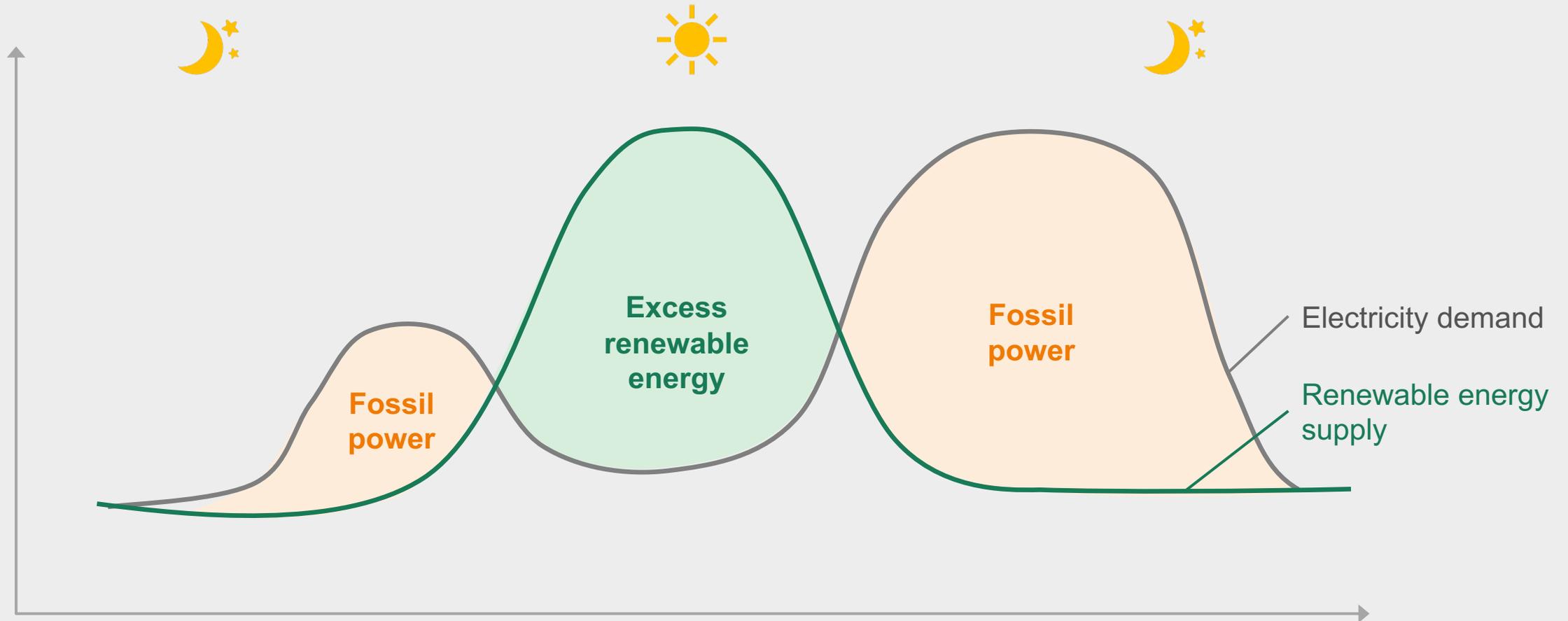
### Clean energy

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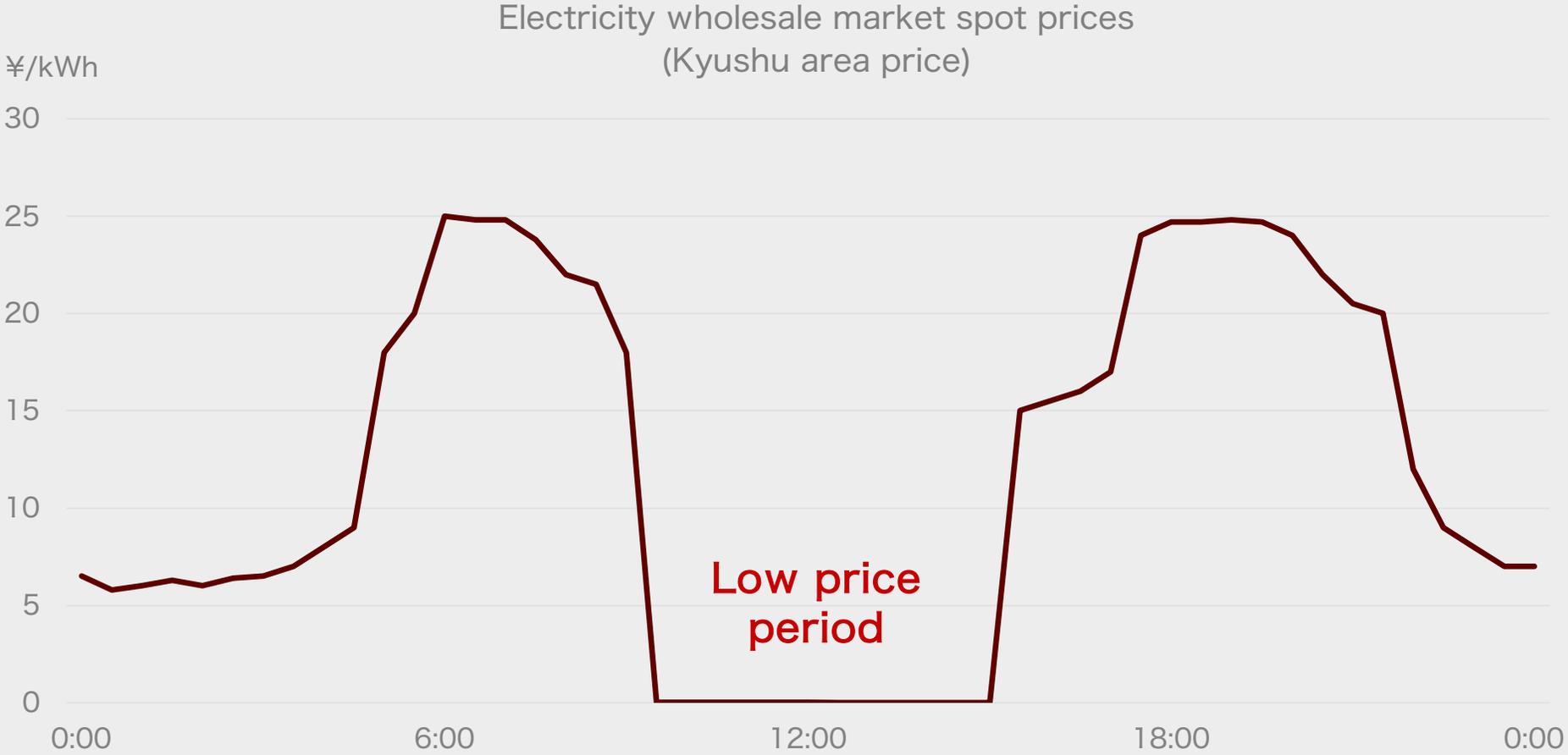
The issue of charging EVs with renewable energy is that it is weather-dependent and has limited generation hours.

## Issue

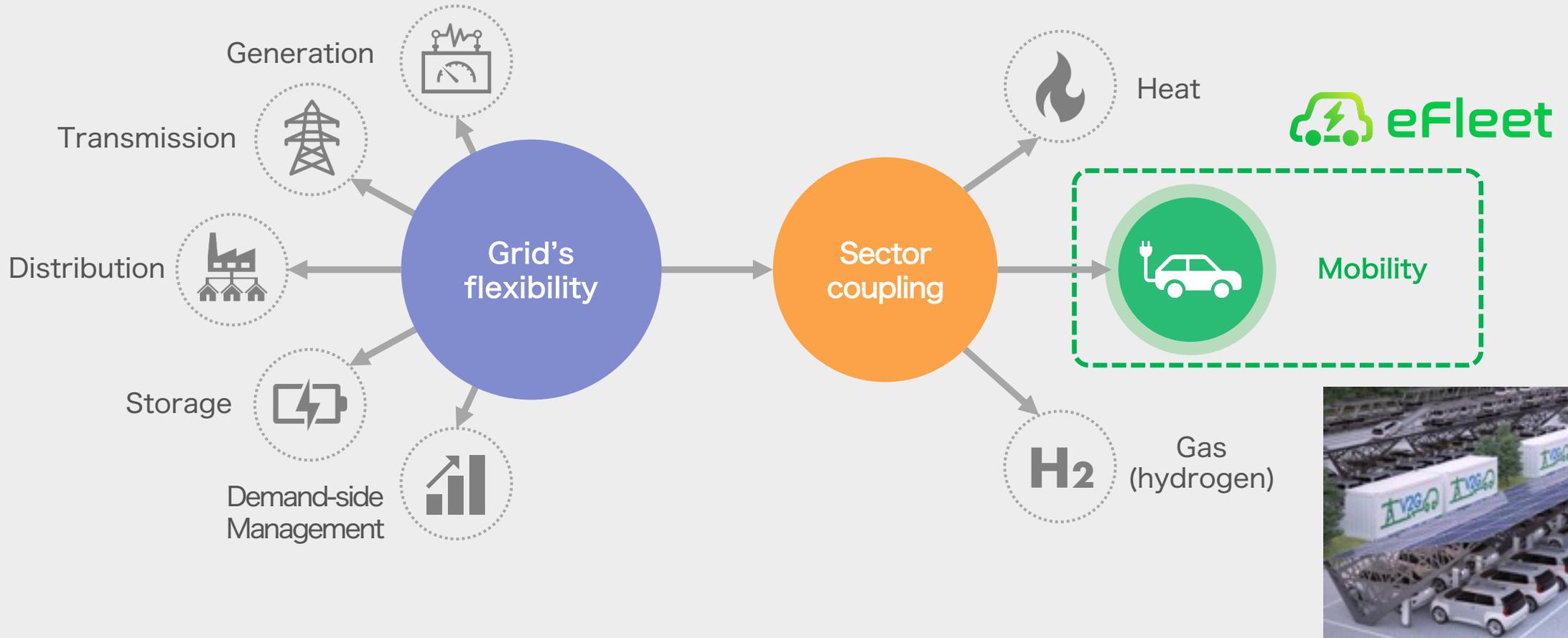
There is a significant gap between electricity demand and renewable energy supply, and as renewable energy becomes more prevalent, there is an increase in surplus output suppression from renewable energy.



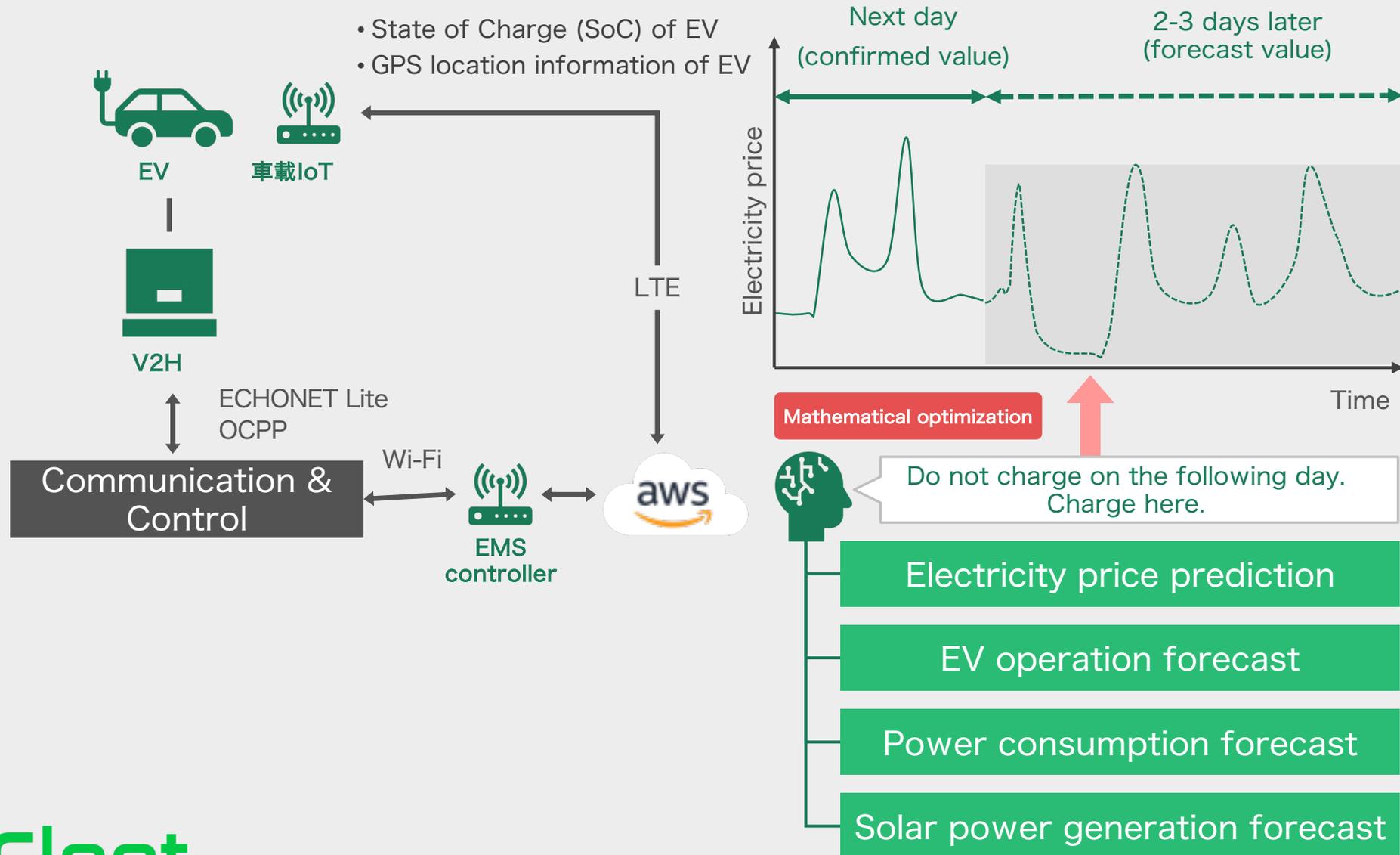
# Output suppression and electricity trading prices



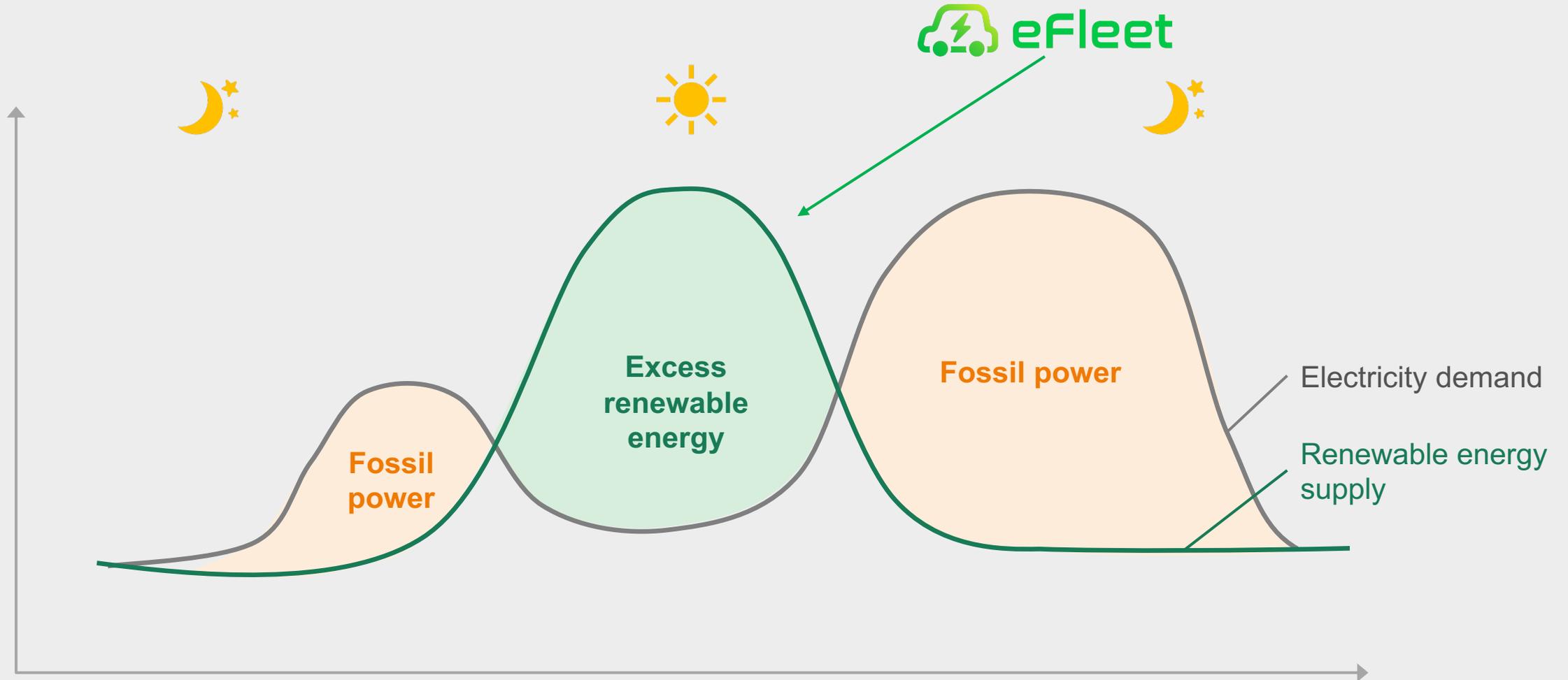
# Mechanisms to achieve carbon neutrality



# Dynamic pricing × AI Algorithm × IoT-based EV charging & discharging automatic control service



# AAKEL eFleet: Excess Renewable Energy Charging



# Our Service: AAKEL eFleet

A software solving challenges related to charging and management of EVs

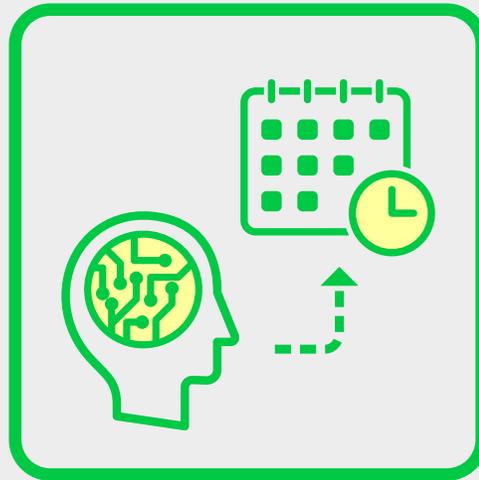


**EV Smart Charging & Operation Management System**

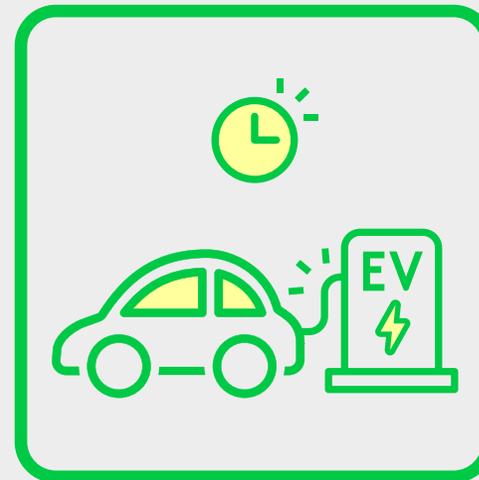
Making EV charging more affordable and sustainable than ever



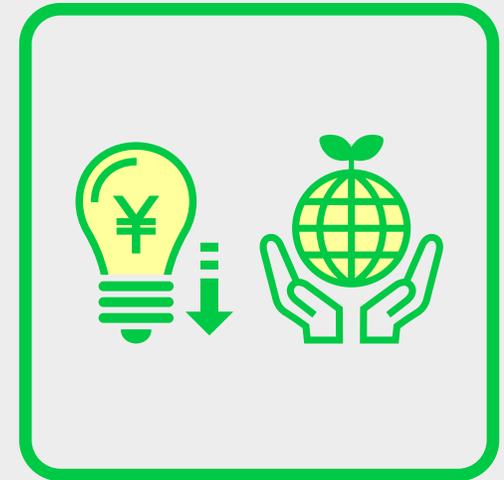
Dynamic Pricing



AI Schedule creation



Automatic charging at designated times



Environmentally friendly and cost-effective

# Partners, PoC, Projects



Chubu Electric Power



Mitsubishi Auto Leasing



Tohoku Electric Power



Nihonkai Gas Kizuna Holding



# Achievements

令和5年度  
新エネ大賞



2024.1

New Energy Award  
New Energy Foundation  
Chairman's Award



2022.9

2022 APAC Cleantech 25  
Energy&Power sector



2022.3

NIKKEI Decarbonization  
Award  
Research Division

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