

ISUZU

Initiatives to achieve carbon-neutral society



Isuzu Environmental Vision 2050 issued in March 2020

As climate change and other global environmental problems intensify, society today stands at an important crossroads.

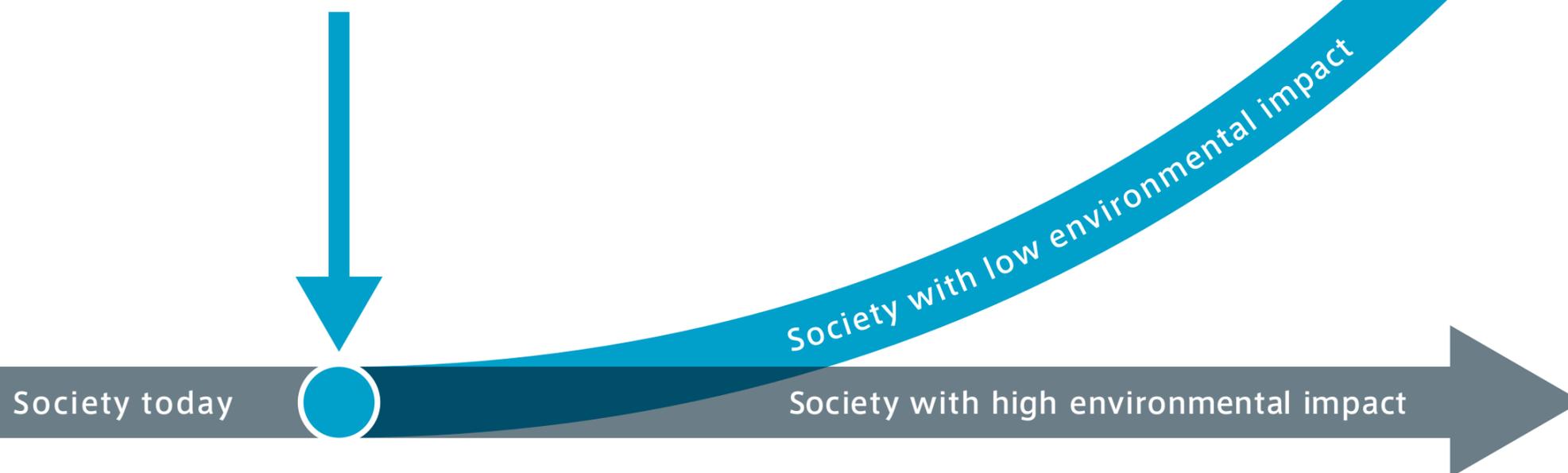
The Isuzu Group has formulated **Isuzu Environmental Vision 2050** as a roadmap to minimizing our impacts on the global environment and creating a more prosperous and sustainable society.



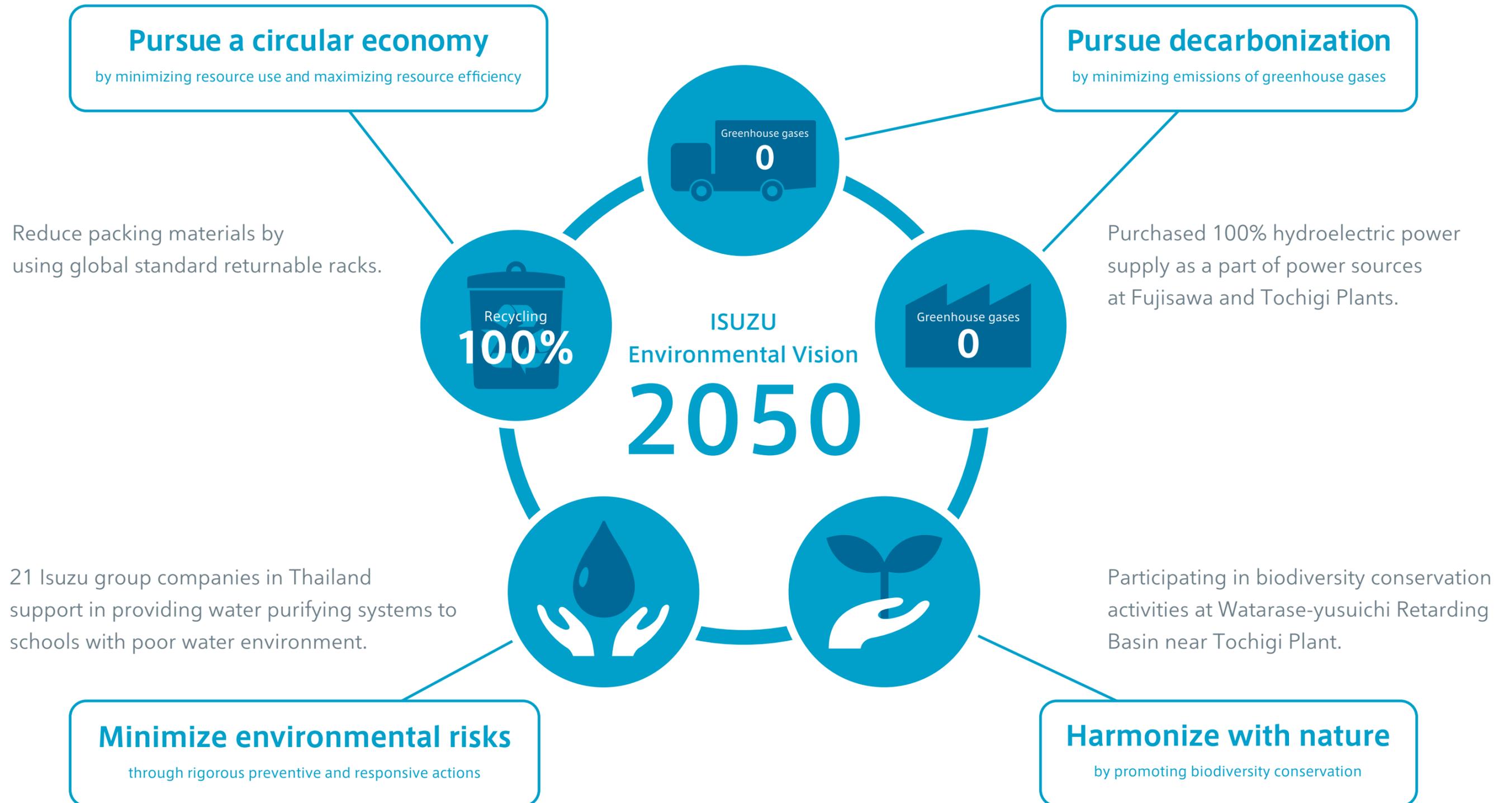
The more prosperous and sustainable society Isuzu aspires to



Undesirable society



Isuzu taking actions in achieving 5 aspirations



We will aim for zero greenhouse gas (GHG) emissions* across the entire life-cycle of Isuzu Group products by 2050

*Net zero balance of emissions and sequestration

Climate change measures (Products and services)



We aim for decarbonized society
by promoting minimization of greenhouse gas emissions.

Develop and mainstream next-generation automobiles

suited for local energy markets and customers' applications and needs

Utilize decarbonized energy

such as biofuels

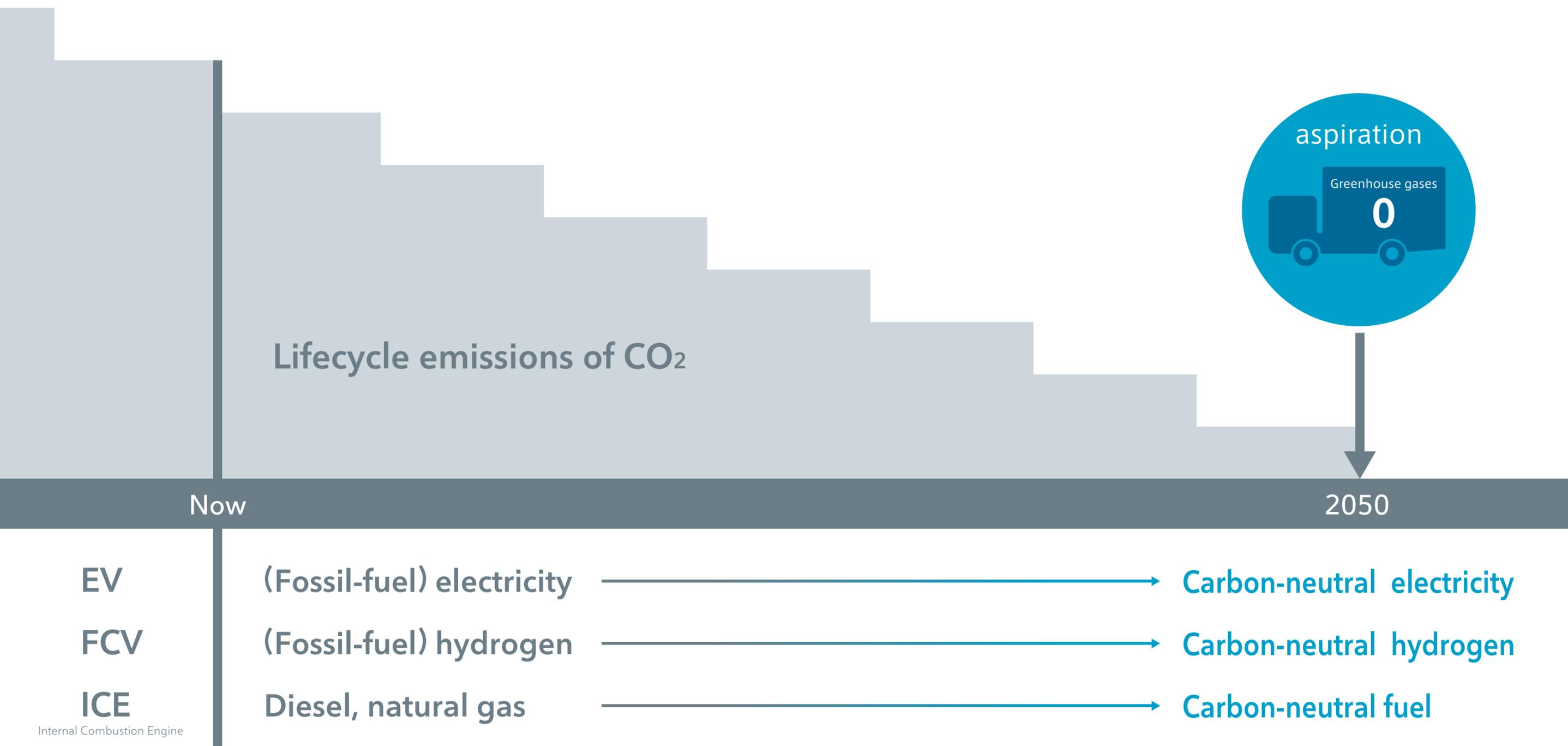
Streamline and improve transport efficiency

through connectivity, automated platooning, and other technologies



Isuzu selected as an A List company,
the highest rating from CDP in the climate change category.

Take a step-by-step approach to minimize emissions considering economic rationality, accessibility and energy security aiming for a carbon-neutral society by 2050.



Manufacturing and developing vehicles powered by various power sources

FCV

2020
Began joint research
with Honda
(Heavy-duty truck)



EV

2019
Began mobile monitoring
(Light-duty truck)



LNGV

2018
Began mobile monitoring
(Heavy-duty truck)



Bio-fuel

2014
DeuSEL®
Began mobile monitoring
(Medium-duty transit bus)



HEV

2005
Start of sales
(Light-duty truck)



2012
Start of sales
(Heavy-duty transit bus)



CNGV

1996
Start of sales
(Light-duty truck)



2015
Start of sales
(Heavy-duty truck)

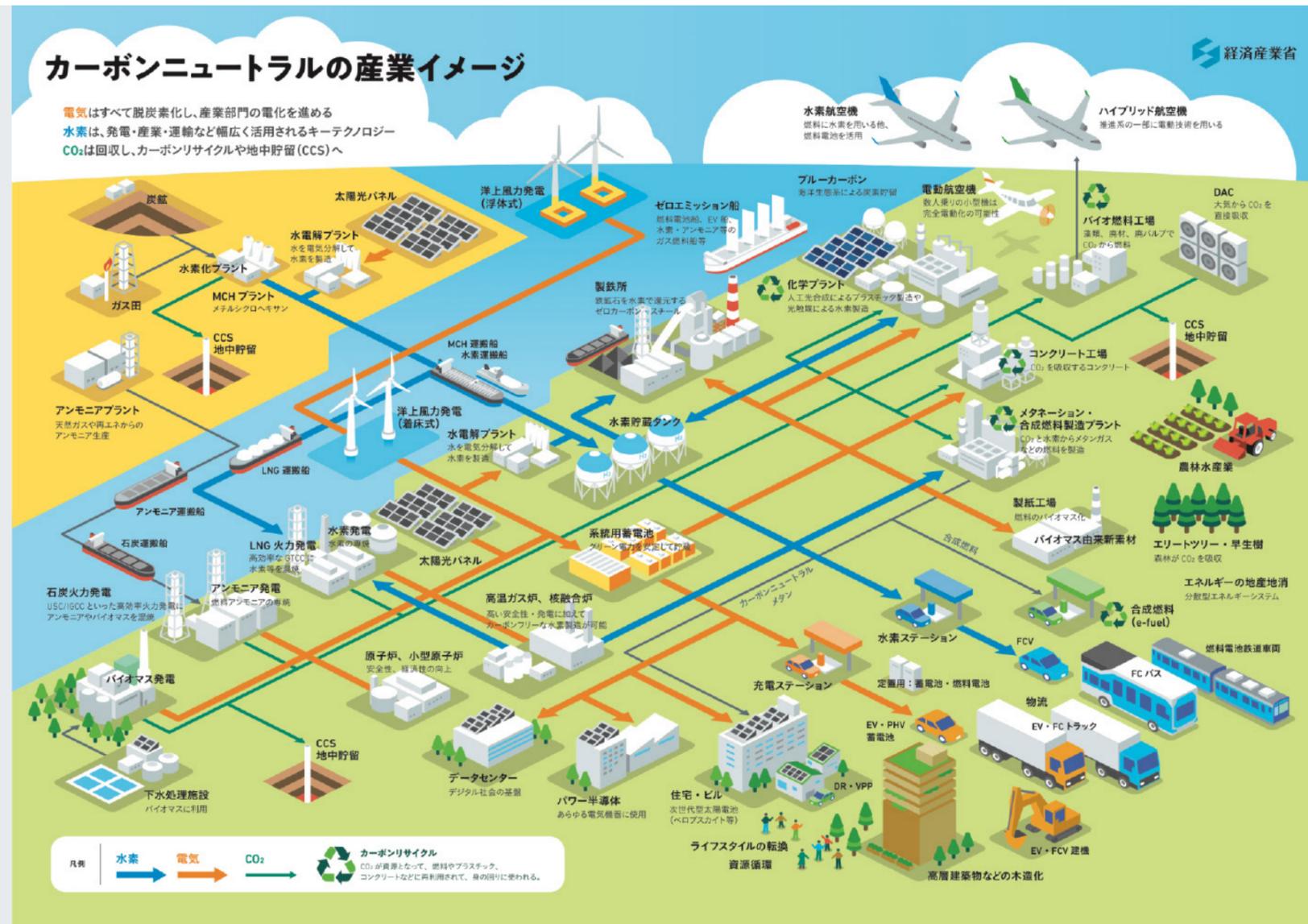


2010

2020

Japanese government's movement toward carbon neutral society

The government declared a goal to achieve a carbon-neutral, decarbonized society by 2050, and unveiled a "Green Growth Strategy" formulated to turn the challenging goal into a positive cycle of economic growth and environmental protection.



Japanese government clarified the direction to accelerate actions towards realizing a carbon-neutral society.

Reference: "METI: Conceptual picture of industries in a carbon-neutral society (in Japanese)" (December 25, 2020) <https://www.meti.go.jp/press/2020/12/20201225012/20201225012.html>

Green Growth Strategy toward 2050 Carbon Neutrality

- The governments to provide full support to businesses with positive measures.
- It is also to implement economic instruments (ex. carbon pricing) with vigor.

Stretch target

High goals set for 14 growing industry fields

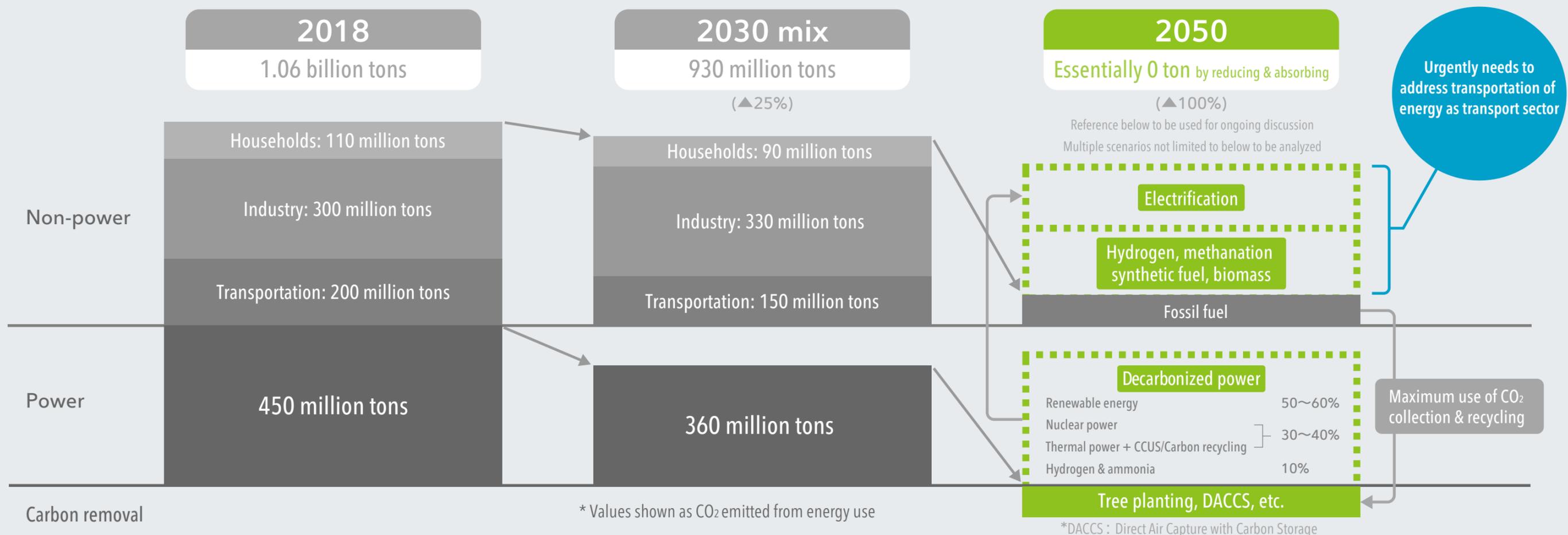
Realistically set policy

Promotion of funds supply, regulatory reform & international standardization

Energy strategy

2050 as a reference point for reasonable energy consumption

Reference: Images of the transformation to a carbon-neutral society



Source: Drafted using a "Green Growth Strategy toward 2050 Carbon Neutrality formulated by METI (Dec. 25, 2020) <https://www.meti.go.jp/press/2020/12/20201225012/20201225012.html>

Isuzu aims to provide carbon-neutral vehicles as early as possible with emphasis on practical use.

Products

EV · FCV · ICE (DE · HEV · CNG / LNG)

Drive the efforts to develop and introduce carbon-neutral vehicles

Economic rationality, ease-of-use, etc. addressed as a driving force for market acceptance

Improve transportation efficiency & better ease-of-use

Advancements in driving & uptime support like MIMAMORI and PREISM

Provide safe and high efficient transportation services

Proven development by partnering with logistics & IT companies

Carbon-neutral energy

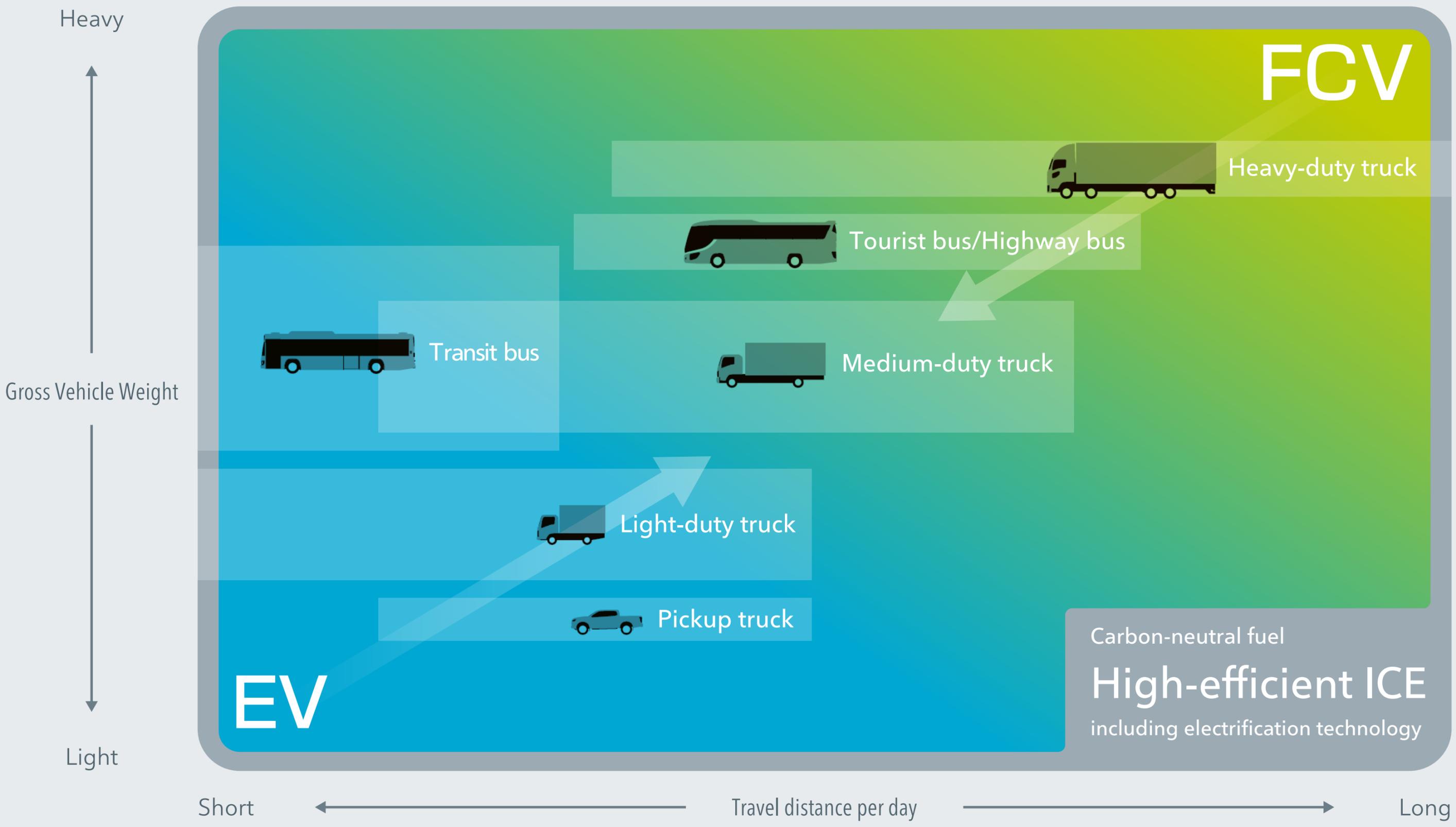
Electric, hydrogen, decarbonized-fuel

Actively participate in supports for commercialization and market penetration

Supports evaluations for normalization, standardization, and practical-use

Now

2050



Fully committed to advancing vehicle electrification

EV light-duty truck

In 2019, began mobile monitoring in areas of home delivery, convenience store distribution and garbage collection
Closely examining economic rationality and ease-of-use to fine-tune for serial production

Slated to launch serial production of vehicles in FY2022



FCV heavy-duty truck

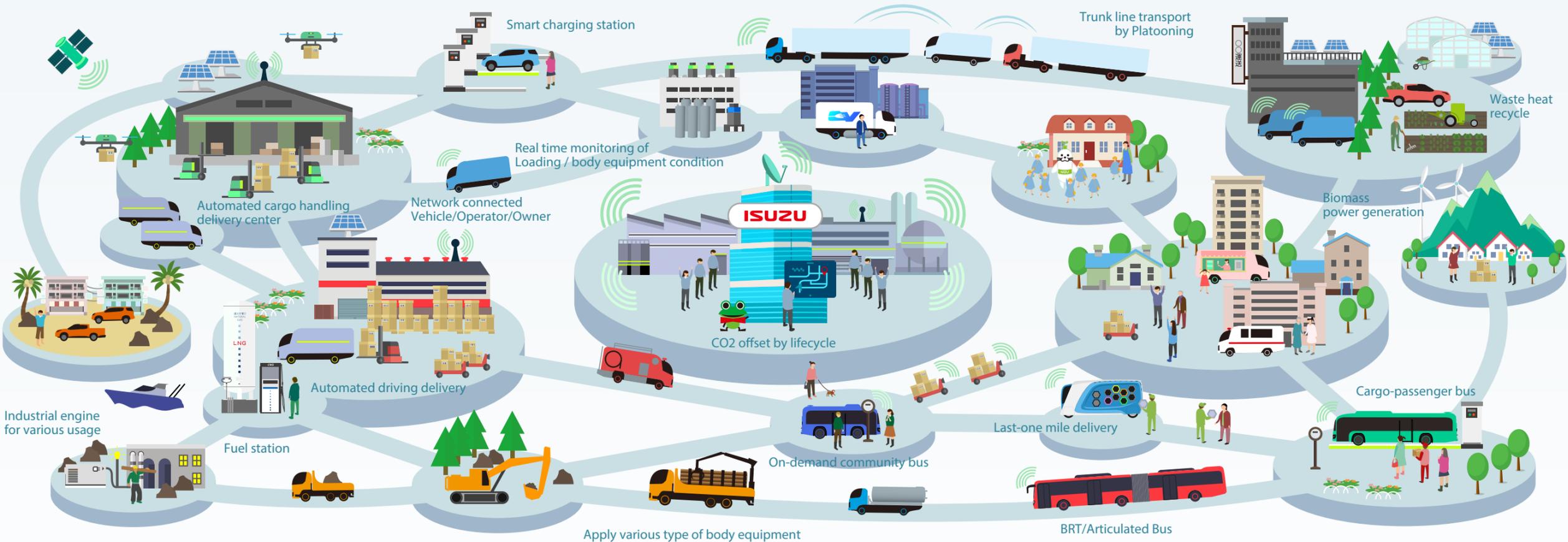
In 2020, began joint research with Honda

Slated to start mobile monitoring in FY2022



We will actively collaborate across all industries and stakeholders to achieve a decarbonized society.

Isuzu ideal future society



Logistic engineering

Vehicle related hardware, service and management support solution

Social-infrastructure support

Participate in next generation traffic infrastructure operation to support smooth driving /getting-in/off /cargo handling

Energy management

Industrial solution with clean and safety power source

Trucks for life
ISUZU

