

Initiatives for the Sustainable Society Toward 2050 Carbon Neutrality

February 2, 2021 Aisin Seiki Co., Ltd. Manufacturin

Our approaches toward 2050 Carbon Neutrality



Vision for FY2031

※Adopted at Sustainability Conference in Feb.2020

■ To reduce CO2 from manufacturing to use and disposal of products for a low-carbon society

		KPI	Mar.2020 Result	Mar.2021 Target	Mar.2031 Target
	9 産業と技術革新の 基盤をつくろう	Life cycle CO2 emissions reduction rate	17,333,000 t-CO2 / year	Improvement of accuracy in understanding of results for the purpose of setting targets	Reduction of 25% or greater Compared to 2013
	12 つくる責任 つかう責任	Production CO2 emissions reduction rate (total)	2,819,000 t-CO2 / year	2,738,000 t-CO2 / year	Reduction of 35% or greater Compared to 2013 (2,474,000 t-CO2 / year)

■ To expand products toward substantially zero GHG emissions in 2050



Sales ratio of electrification products that contribute to reducing CO2 emissions

1

10% 13% **50% or** higher

■ To promote energy-related development toward a carbon-free recycling society



Contribution amount of CO2 reduction by energy-related products (sales)

480,000 t-CO2 / year

530,000 t-CO2 / year 2,300,000 t-CO2 / year

Manufacturing -Framework to promote-



Established "Energy Strategy Council", a group-wide meeting to plan and promote carbon-neutral strategies for the entire Aisin Group (2020/3~)

Energy Strategy Council

 Carbon-neutral strategy planning / promotion and progress confirmation from a medium- to long-term perspective

①Carbon-neutral business scenario WG (overall)

 Drawing big pictures and coordinating with each WGs (Including renewable energy promoting scenario)

2 Production CO2 neutral technology WG(Scope 1,2)

•Developing and Utilizing carbon neutral technology (Recovery and reuse of CO2, utilizing of hydrogen) ⇒ CO2 recovering at casting process and methane gas utilization in production by synthesis with hydrogen

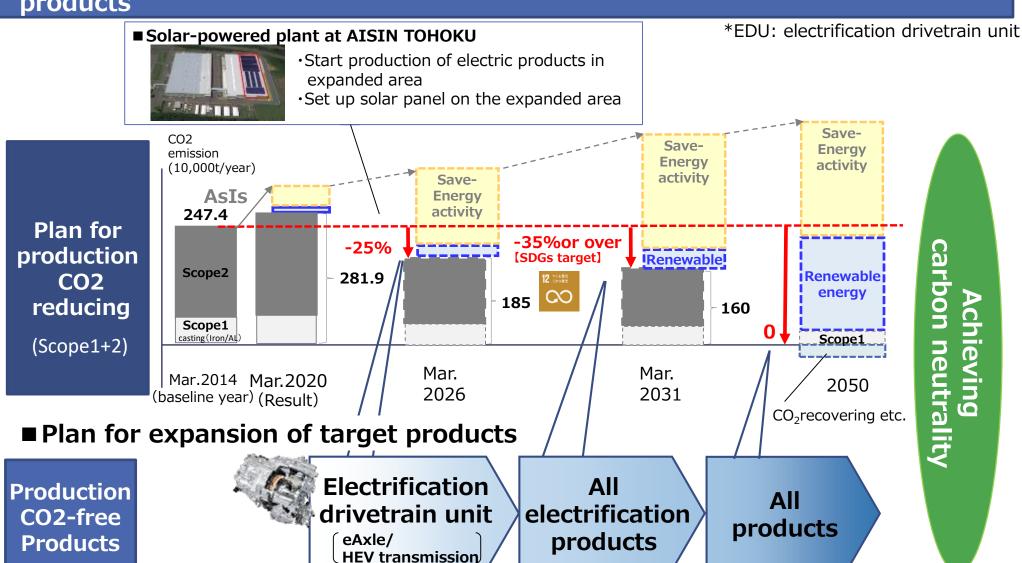
③Material CO2 reduction WG (Scope3)

 Promoting CO2 reducing activity for procured materials(measures for supply chain, reviewing materials)

Propulsion of Production CO2-Free Product



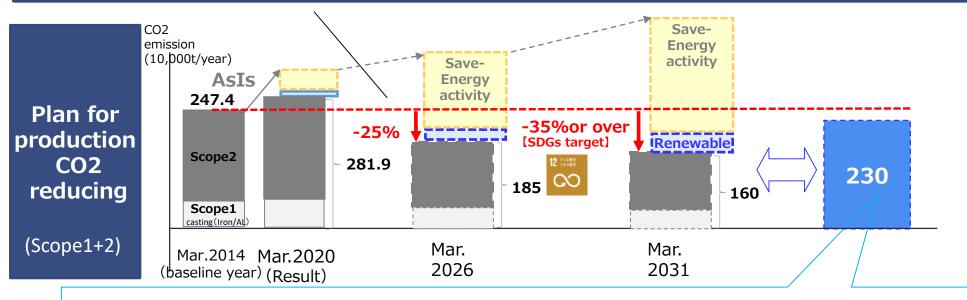
- •From FY2022, EDU* lineups will be production CO2-free products
- From FY2031, expand production CO2-free products to all electrification products



Products -CO2 reduction by Energy-related products(sales)-



- Contributing CO2 reduction in society by energy-related products(sales)
- Expanding the contribution amount to the equivalent of production CO2 of the entire Aisin Group



Contribution ' amount of **CO2** reduction by products (sales)

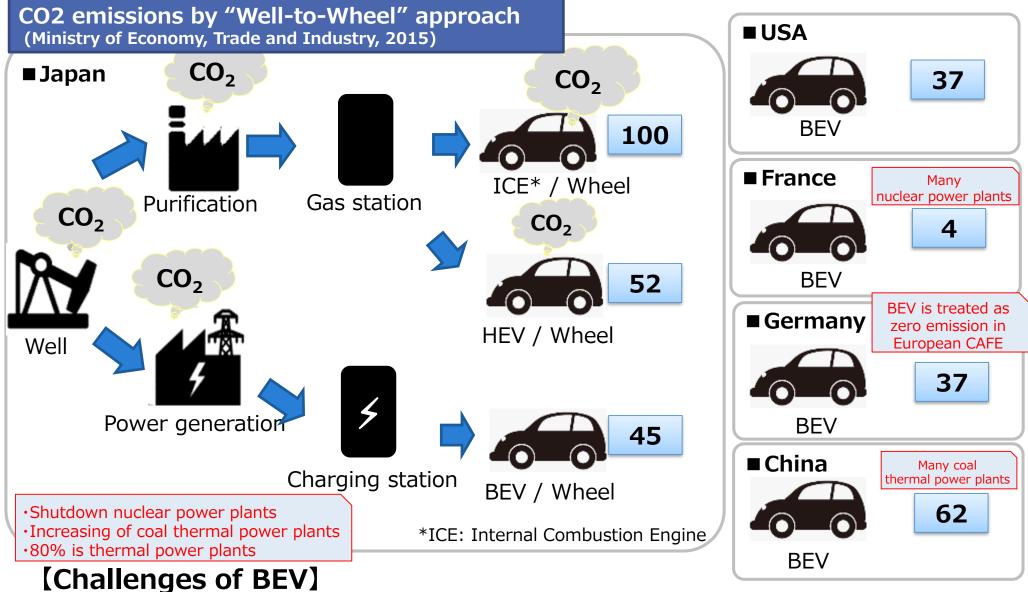






1.5t-CO₂/Unit/Y **1.5**t-CO₂/Unit/Y **1.7**t-CO₂/Unit/Y

Contributing CO2 reduction by sales of cumulative 2 Mil. units of energy products by Mar. 2031 (equal to 2.3Mil ton CO2 reducing contribution)



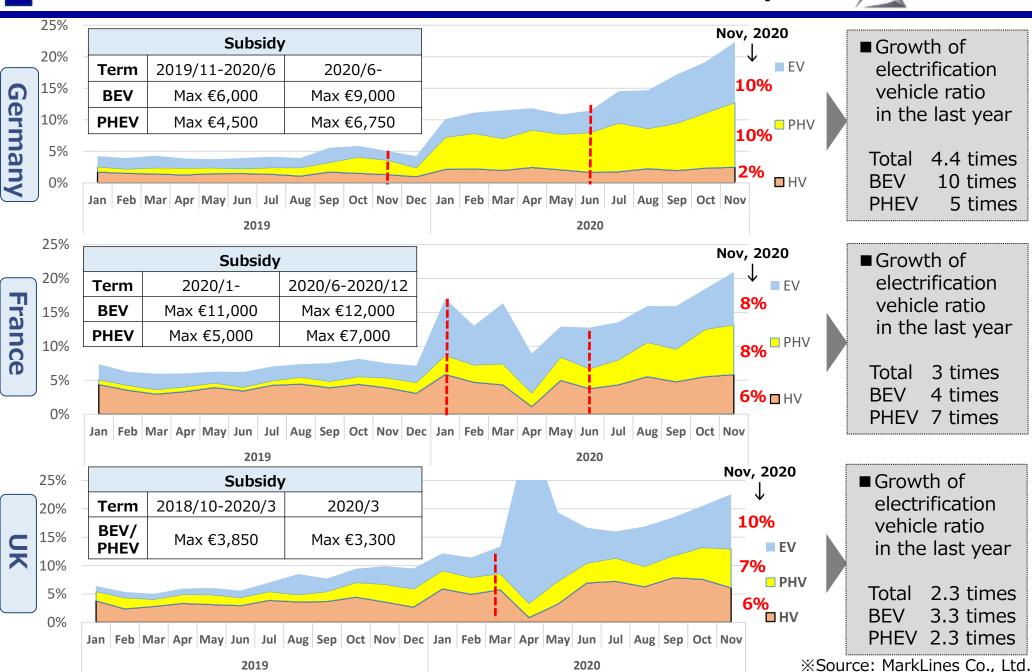
- Short cruising range
- Taking long time to charge

- Early deterioration of battery
- Expensive vehicle price

Reference: Electrification vehicle ratio in Europe



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Lineup for electrification drivetrain unit of AISIN



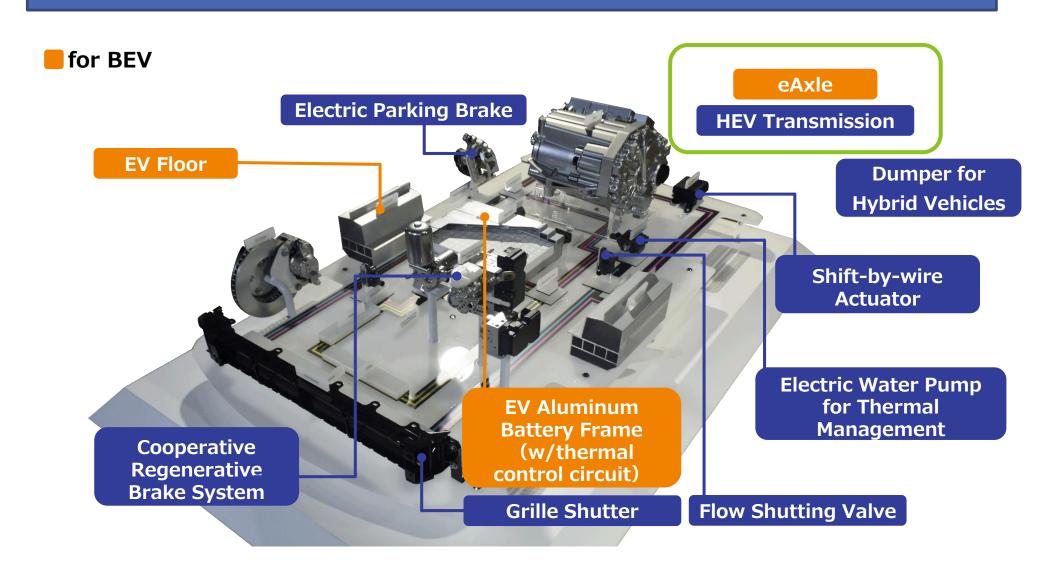
Promoting all-around product development, using technological strength of AT and 2-motor HEV

		Products	Installed Vehicle	
Elec	BEV/ FCEV	eAxle	·TOYOTA C-HR·IZOA(China) ·LEXUS UX300e	
Electrification	PHEV		·TOYOTA new-MIRAI	
tion Vehicle	PHEV •HEV	2-motor HEV Transmission	·TOYOTA PRIUS·RAV4·C-HR ·LEXUS LS500h·LC500h etc.	
		1-motor HEV Transmission	·DS 7 CROSSBACK E-TENSE ·PEUGEOT 3008 Hybrid etc.	

Electrification Products of AISIN



Lineup for various products for xEV other than electrification drivetrain unit



Supply Structure for Electrification Products



Expanding supply structure for electrification products such as electrification drivetrain unit, Electric Control Brake and Electric Pump

