

# Progress in Medium- to Long-term Strategy and Future Initiatives

June 1, 2023

Kazuo Tadanobu President & CEO, Panasonic Energy Co., Ltd.



A symbol representing our goal of creating a society that maintains harmony and balance between the pursuit of happiness and a sustainable environment.

#### Notes

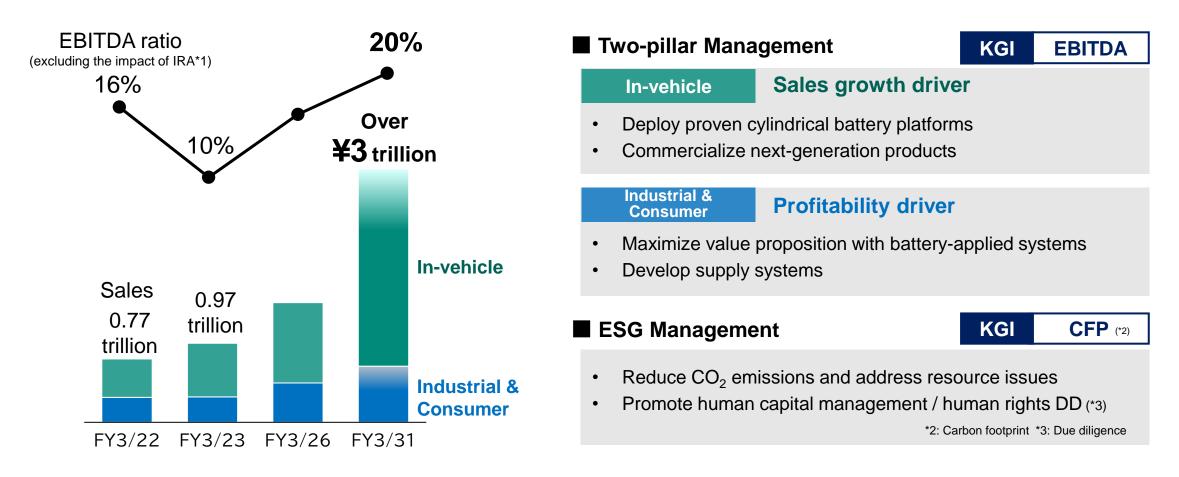
- 1. This is an English translation of the original presentation in Japanese.
- 2. In this presentation, "Fiscal 2024" or "FY3/24" refers to the riscal year ending March 31, 2024.

# **Agenda**

- 1 Progress in Medium- to Long-term Strategy
- **2** Future Initiatives

### 1-1. Medium- to Long-term Strategy

- Implement "two-pillar management" driven by in-vehicle business and industrial & consumer business, as well as "ESG management" to achieve sustainable growth
- Target of over ¥3 trillion in sales and an EBITDA ratio of 20% in FY3/31



\*1:Inflation Reduction Act

- Steady progress in growth investments in both in-vehicle and industrial & consumer businesses
- Initial production plan in Kansas changed from 4680 to 2170, but no change in enhanced production capacity and 4680 will be mass-produced with higher energy density

Growth Initiatives [Progress]

In-vehicle Business

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- Started construction of a new factory in Kansas, USA
- Signed sales agreements with Lucid and Hexagon Purus
- Start of mass-production of 4680 in Wakayama, Japan was reviewed to include new technology (From 2H FY2024 to 1H FY2025)

Industrial/Consumer Business Growth investment: High-capacity cells for infrastructures (Tokushima, Japan), lithium primary batteries (Wuxi, China), etc.











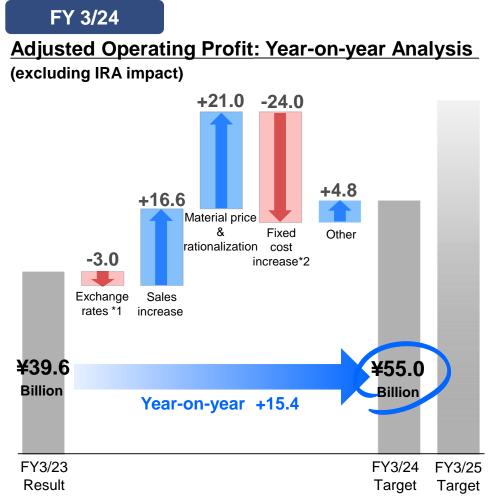
Competitiveness In-vehicle Business

<u>Achievement</u>: better productivity and reduced production losses in Nevada (+10% vs. initial target) <u>Challenge</u>: unable to counteract raw material price hikes by price pass-through and streamlining

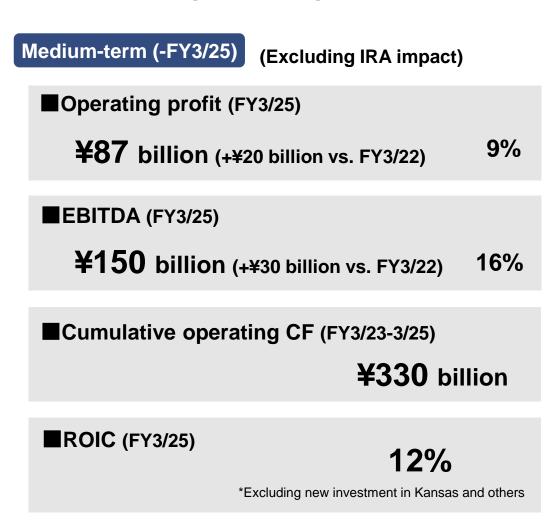
Industrial/Consumer Business <u>Achievement</u>: expanded applications by improving modularization and systemization rates <u>Challenge</u>: unable to counter the speed of market deterioration

### 1-3. FY24 / Medium-term Management Targets

Increase sales and profit in FY3/24 and maintain medium-term management targets



<sup>\*1:</sup> Exchange rate for FY3/24 business plan: USD 1 = JPY 130



<sup>\*2:</sup> Including growth investments

# **Agenda**

- 1 Progress in Medium- to Long-term Strategy
- **Future Initiatives**

### 2-1. In-vehicle Business – Medium- to Long-term Strategy

- Strengthen competitiveness and supply chain to reach 200 GWh production capacity
- Next production site in North America to be determined during FY3/24

#### **Sales and EBITDA Ratio**

### **EBITDA** ratio (excluding IRA impact) ¥2.5 trillion Sales ¥0.65 trillion FY3/23 FY3/26 FY3/31

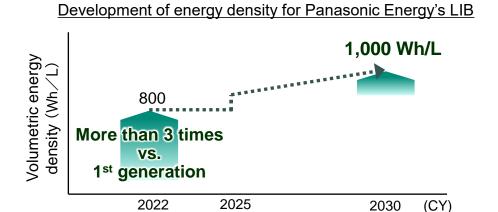
### **Strategy Framework and Major Initiatives**



# 2-2. In-vehicle Business – Boosting Competitiveness (Technology/Manufacturing)

- Lead the LIB industry with high-capacity technology as a pioneer in battery development
- Further enhance manufacturing at the new Kansas factory by utilizing our production experience in North America

### **Boosting Energy Density**



- Establish next-generation cells

► Cell energy density: +5% vs. previous products

- New materials: higher capacity & longer life

- Adopt higher-capacity technology for the Wakayama model

► Apply advanced technologies of 2170 to 4680

### **Boosting Productivity/More Effective Investments**

Nevada Factory

- Continued improvement of production capacity
  - ▶ Production volume: +5%
- Transition to next-generation battery cells



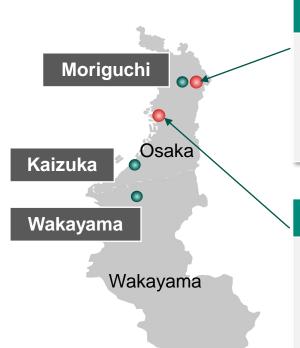
Kansas Factory

- Improving human productivity
  - ▶ Workforce per GWh: -20% (vs. Nevada Factory)
- Reducing capital investment amount
  - ► -10% per GWh (vs. Nevada Factory)

► Pursue further advancements at the new factory

(Enhancing development efficiency and boosting resources)

 Accelerate development of next-generation cells and manufacturing technology by consolidating and enhancing bases for R&D / technology development



### Kadoma – New facility (planned for 2025)

- Concentrate functions of cell technology development in one location
- Create a one-stop base covering from development of next-generation materials/processes to new products



### **Suminoe – New building (planned for 2024)**

- Concentrate production equipment / process development functions in one location
- Establish a central development base providing support from next-generation manufacturing development to productivity improvement of existing equipment

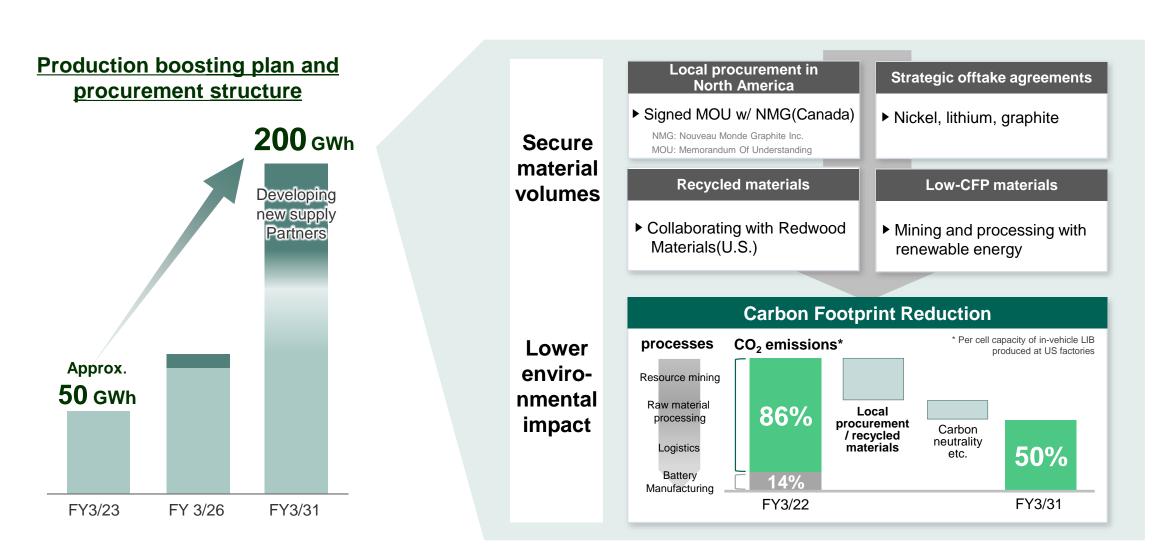


Personnel will be increased by 1,000 people in Japan by FY3/26 (vs. FY3/23) as part of our efforts to enhance core human resources in technology and manufacturing

### 2-4. In-vehicle Business – Supply Chain Enhancement



- Build a supply chain that supports capacity expansion in terms of quantity and quality (environmental performance)
- Scheduled to secure procurement volumes for future production in Kansas (up to FY3/26)

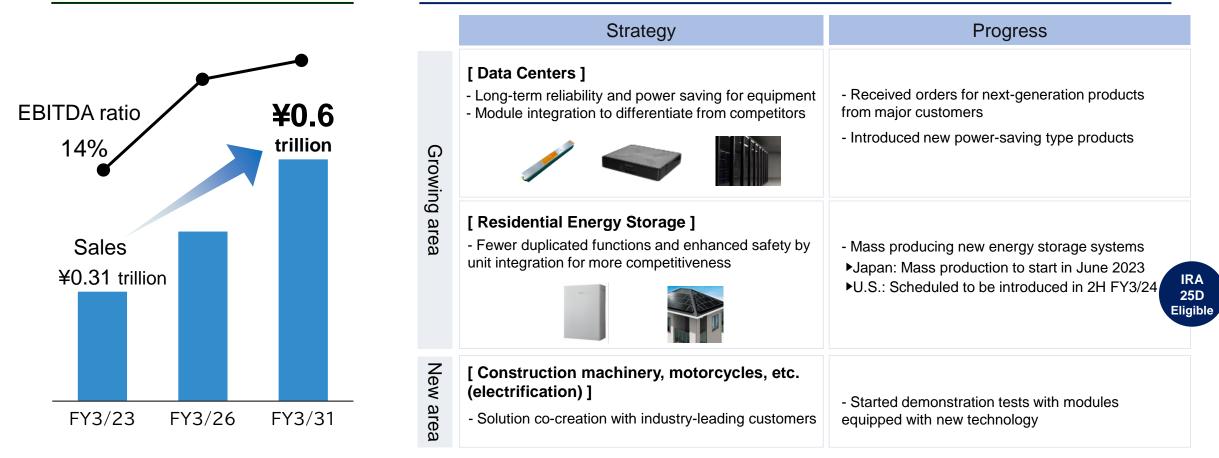


### 2-5. Industrial & Consumer Business – Medium- to Long-term Strategy

- Focus on social and lifestyle infrastructure expected to grow over the medium to long term
- Expand advanced system business based on reliability that meets safety standards (UL9540A)

#### **Sales and EBITDA Ratio**

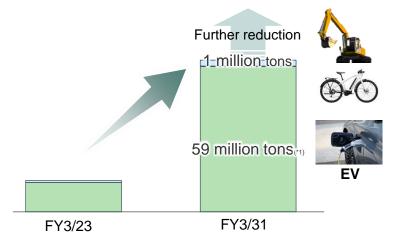
### Medium- and Long-term Strategies and Progress

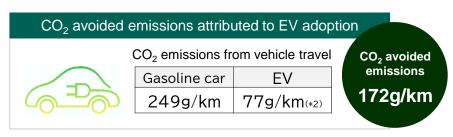


- Contributing to 60 million tons of CO<sub>2</sub> avoided emissions as the core of Panasonic GREEN IMPACT
- Leading the LIB industry through environmental contributions toward a sustainable society

### CO<sub>2</sub> Avoided Emissions (Contribution Impact)

Expanding contributions thanks to the adoption of EVs and other electrified mobility/machinery





(\*1) Amount of  $CO_2$  avoided emissions by BEVs equipped with our batteries (when driven 140,000 km over 10 years)

(\*2) Panasonic Energy's calculations based on the figures on 2020 Tesla Impact report

### **Achieving Carbon Neutrality** (Own Impact)

#### Aim to achieve domestically in FY3/26 and globally in FY3/29

- ▶ 10 out of 20 global sites have achieved as of May 2023
- ▶ Expand renewable energy utilization(PPA\*), introduce hydrogen fuel cells

\*Power Purchase Agreement



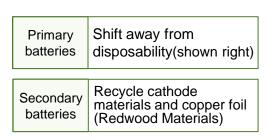
10% of domestic electricity procured through renewable energy PPAs



Operating in Wuxi, China Expanding to the domestic facilities

### **Resource Circulation**

#### **Accelerate initiatives in collaboration with partners**





## **Panasonic ENERGY**

Energy that changes the future.

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### Reference – Financial Figures (P/L, B/S, C/F)

\*Excluding IRA impact

#### **Panasonic ENERGY**

\*Unaudited

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(yen: billions)		FY3/23	FY3/24 (Target)		FY3/25 (Target)
Sales		971.8	1,030.0		<del>_</del>
	In-vehicle	654.1		706.0	<del>_</del>
	Industrial/Consumer	310.7		334.0	<del>_</del>
Adjus	sted operating profit	39.6	(135.0)	55.0	<del>_</del>
	In-vehicle	10.7	(101.0)	21.0	<del>_</del>
	Industrial/Consumer	28.5		30.0	<u> </u>
Othe	er income/loss	-6.4		-2.0	_
Ope	rating profit	33.2	(133.0)	53.0	_
(OP % to sales)		3.4%	(12.9%)	5.1%	<del>_</del>
Depreciation (tangible) *1		65.3		71.0	<del>_</del>
EBITDA *1		98.5	(204.0)	124.0	
(EBITDA % to sales)		10.1%	(19.8%)	12.0%	<del>_</del>

<sup>\*</sup> Figures in parentheses include IRA impact

### C/F

		rigures in parentneses include INA impact		
(yen: billions)	FY3/23	FY3/24 (E)	FY3/25 Cumulative (Target)	
FCF	0.5	_	_	
Operating CF	70.6	137.0	330.0	
Investing CF	-70.1	_	_	
Capital investment	90.6	381.0	_	
Investment in intangible assets	1.1	_	_	
R&D expenditures	25.1	_	_	

B/S	(yen: billions)	FY3/23	FY3/24 (Target)	FY3/25 (Target)
	Cash and cash equivalents	120.2	_	_
	Trade receivables	261.6	_	_
	Inventories	204.2	_	_
	Other current assets	33.7	_	_
	<b>Current assets</b>	619.7	_	_
	Property, plant and equipment	181.5	_	_
	Right-of-use assets	6.9	_	_
	Goodwill and intangible assets	3.1	_	_
	Other non-current assets	10.6	_	_
	Non-current assets	202.1	_	_
	Total assets	821.8	_	_
	Trade payables	204.1	_	_
	Debt (1)	129.7	_	_
	Lease liabilities (2)	7.0	_	_
	Other liabilities	106.9	_	_
	<u>Liabilities</u>	447.7	_	_
	Equity (3)	374.1	_	_
	Invested capital (1)+(2)+(3)	510.9	_	_
	ROIC	5.0%	*2 5.4%	6.5%

<sup>\*1)</sup> Additionally adjusted with the amount equivalent to depreciation corresponding to underlying assets that are applied with Lease accounting treatment as a lessor

<sup>\*2)</sup> FY23 ROIC includes IRA impact by 17.9%