Management Overview of Fiscal Year 2023 (ended March 31,2024)



May 8, 2024

IHI Corporation

Representative Director, President, and Chief Executive Officer

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Progress with Group Management Policies 2023

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Advanced in each business category toward medium-and long-term growth objectives

Development
-focus
businesses

 Steadily developed fuel ammonia value chain business, notably by conducting the world's first fuel 20% ammonia substitution demonstration test at JERA's Hekinan Thermal Power Station

Growth businesses

- Fully accounted for costs of additional inspection program for PW1100G-JM engines in fiscal 2023
- No change in expected number of aircraft on ground or related compensation and additional maintenance costs under program excluding forex impact
- Civil aero-engine business entered growth phase, while defense, space, and civil aviation maintenance, repair, and overhaul work expanded steadily

Core businesses

- Lifted lifecycle business revenues and orders by 50% from fiscal 2019 level, and seek further profitability gains
- Accelerated transformation of low-profit businesses into lean entities through structural reforms, business portfolio reviews, and other initiatives

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• We made steady progress overall with Group Management Policies 2023 initiatives.

Development-focus businesses:

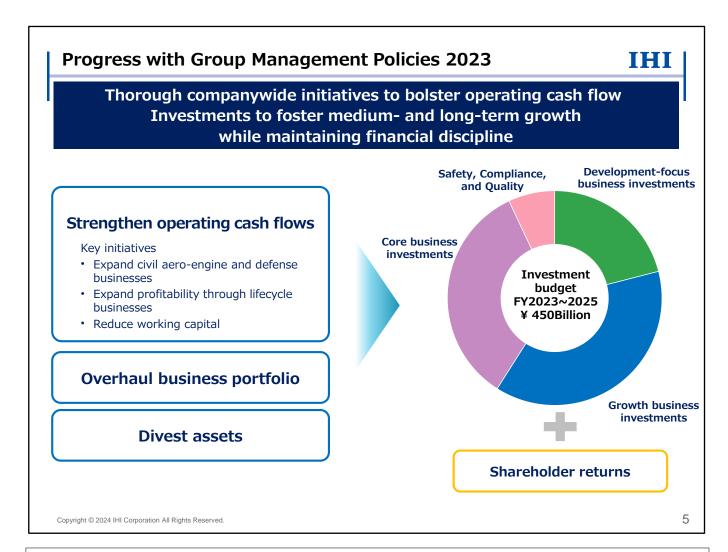
· We steadily developed the ammonia value chain business.

Growth businesses:

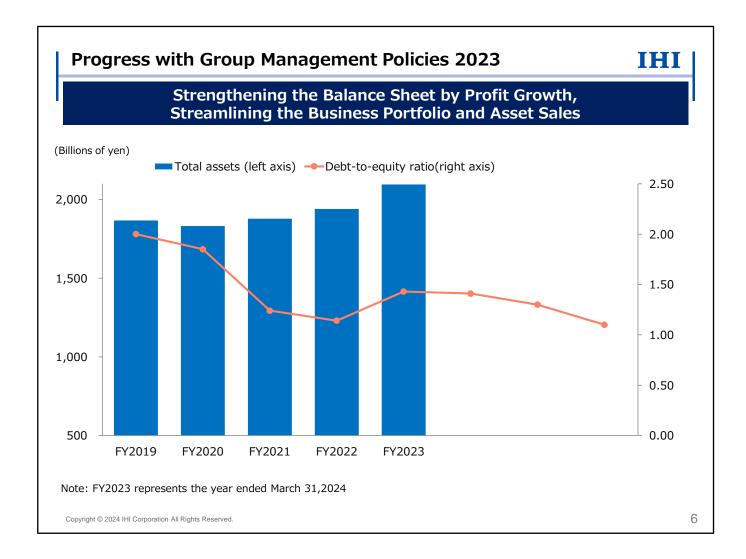
- Apart from the impact of foreign exchange rates there were no changes in expenses related to PW-1100G-JM engines, and we fully accounted for all expenses in FY2023.
- We delivered steady growth in the civil aero-engine, defense, and space segments.

Core Businesses:

• We lifted lifecycle business revenues and orders by 50% from the FY2019 level.



- This slide presents our financial management approach.
- The left side shows our cash flow sources.
 - First, we are working companywide this fiscal year to strengthen operating cash flows.
 - We will overhaul our structure and business portfolio and divest around ¥50 billion in assets to generate cash flows.
- The right side presents our fund usage composition.
 - Under Group Management Policies 2023, we set our investment budget at ¥500 billion but have lowered it to ¥450 billion.
 - While retaining our policy of prioritizing investment allocations to growth and development-focus businesses, we will re-order our investment priorities, evaluate our profitability over the medium through long terms, and postpone investments to maintain financial discipline.
- On the shareholder returns front, our basic policy is to pay stable dividends in view of our current financial position and target a consolidated dividend payout ratio of 30% over the medium term while improving our financial position.

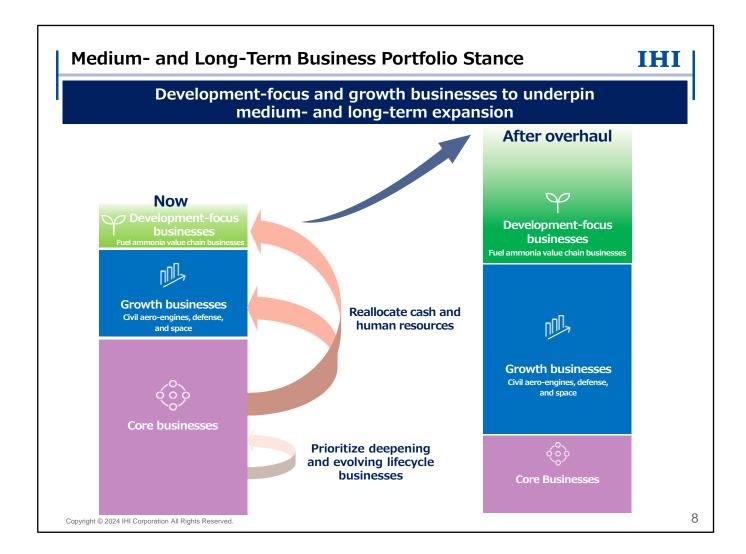


- This slide shows our total assets and debt-to-equity ratio for fiscal 2019 and beyond.
- We acknowledge that our financial position is one of the key challenges.
- As mentioned earlier, we will bolster our financial position and manage our balance sheets through such measures as strengthening operating cash flows and divesting assets.
- Our first goal is to restore the end-fiscal 2022 debt-to-equity ratio level of 1.1 times.

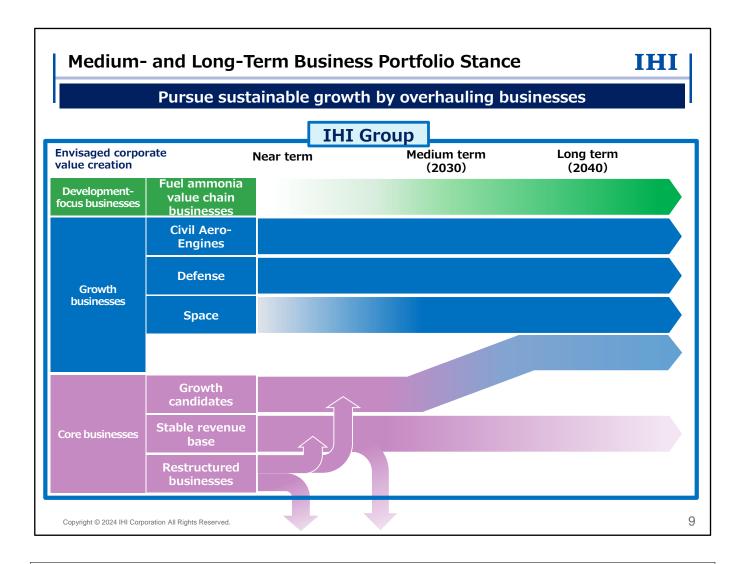
Medium- and Long-Term Business Portfolio Stance



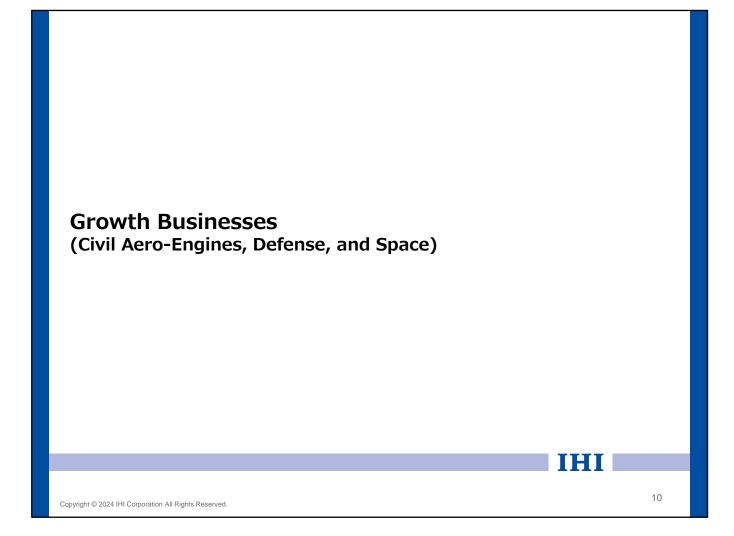
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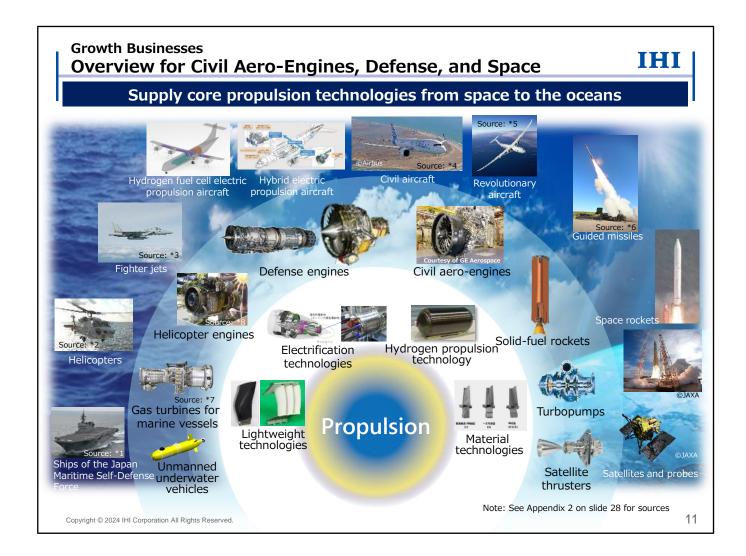


- The right bar presents the business portfolio we envision for the medium through long terms.
- As we have stated to date, growth and development-focus businesses will support our medium- to long-term growth.
- We will pursue sustainable expansion by shifting cash, people, and other management resources from core businesses to those growth and developmentfocus businesses.
- In core businesses, we will continue to prioritize deepening and evolving lifecycle businesses to enhance profitability.

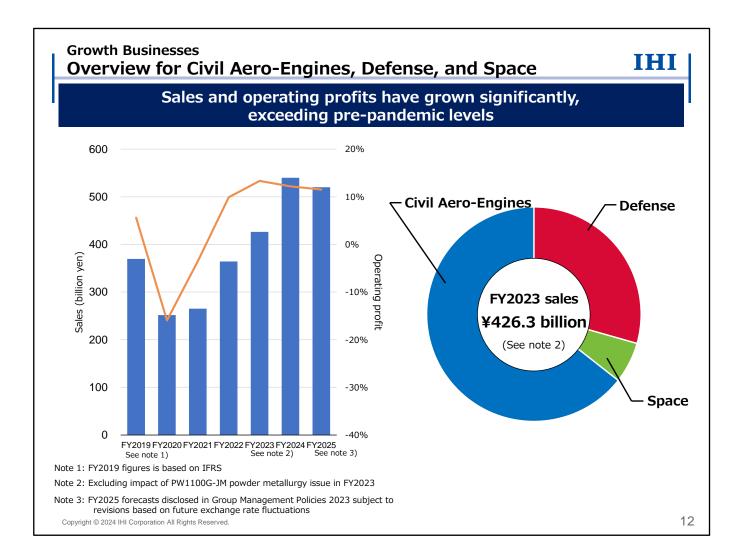


- This slide shows business composition transitions that will generate corporate value.
- As mentioned earlier, over the medium through long terms we want growth and development-focus businesses to be our principal corporate value drivers.
- The investment phase will continue for development-focus businesses for the foreseeable future. They should start contributing to revenues and earnings from 2030.
- The prime growth business drivers would be civil aero-engines and defense, while the space business should expand from around 2030.
- · Regarding our core business,
 - We will accelerate deliberations on the portfolio.
 - We will build on our technological edge in each core business by classifying in the three categories presented below, taking into account such factors as the business environment, including projected market sizes and competition, and act accordingly.
 - We will share details as deliberations progress.

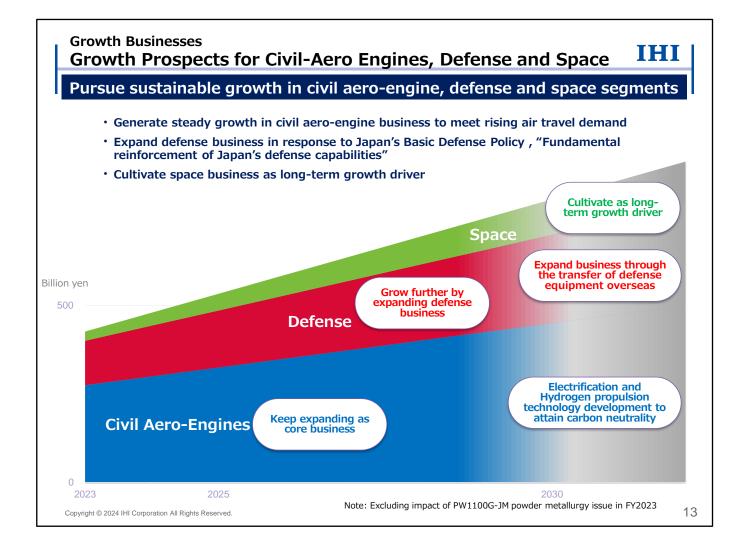




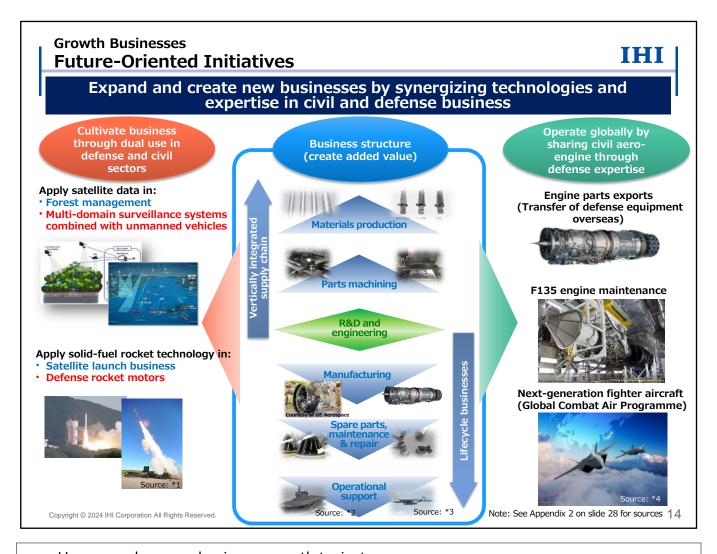
- Here, you see the overall picture of our Aero-Engines, space, and defense businesses.
- A key strength lies in our core propulsion technologies, which span from space to the oceans.
 - For space, these include turbopumps for liquid-fuel, and solid-fuel rockets.
 - In Aero-Engines, they encompass turbo fan engines for both civilian and defense purposes, as well as engines for helicopters.
 - For the oceans, we are developing gas turbines for marine vessels, unmanned underwater vehicles and so on.
- While developing lightweight, material, and other underlying technologies, we are also continuing to develop electric and hydrogen propulsion technologies that will be essential for carbon-neutral aircraft.
- Even in projects in which we are not the prime contractor, we supply core components requiring advanced technological capabilities to primary manufacturers.



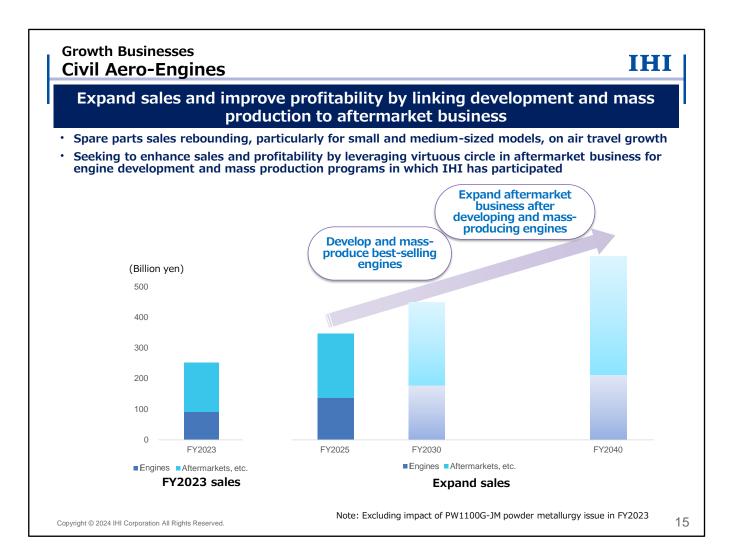
- This slide overviews numbers for the civil-aero engines, defense, and space businesses.
- The bar graph on the left presents our sales and operating profit to date.
- The pie chart on the right shows sales compositions in fiscal 2023.
- As you can see, revenues and earnings have significantly exceeded the prepandemic levels of fiscal 2019.
- Please note that the forecasts for fiscal 2025 disclosed in Group Management Policies 2023 are subject to revision owing to exchange rate fluctuations and other factors, so consider that information as a reference.



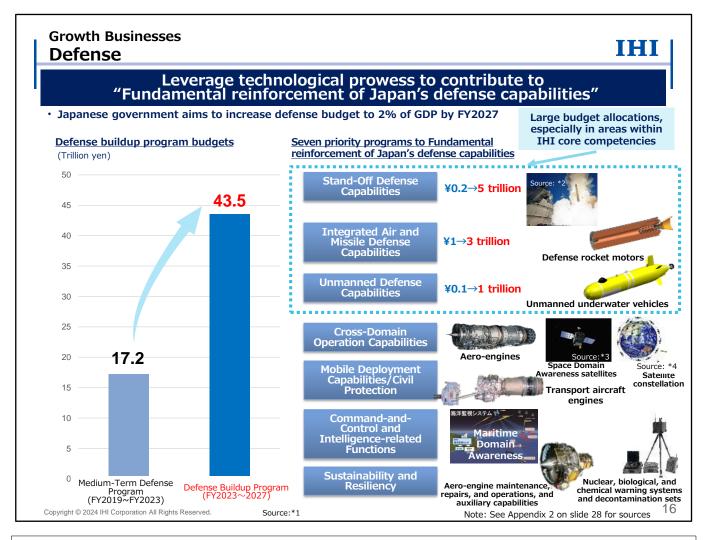
- Here we present our envisaged business portfolio over the medium to long terms.
- The civil aero-engine and defense businesses should drive growth through around 2030.
 - We will capitalize on opportunities from an expanding civil aero-engine market to generate steady growth.
 - I will discuss defense business details later.
- We have several long-term goals.
 - In civil aero-engines, we will further reduce weight and enhance efficiency while developing and commercializing electric and hydrogen propulsion technologies to achieve carbon neutrality.
 - In defense, we look to expand our business by transferring defense equipment overseas.
 - Also, we seek to expand our space business, which we expect to see increasing demand and new market potential.



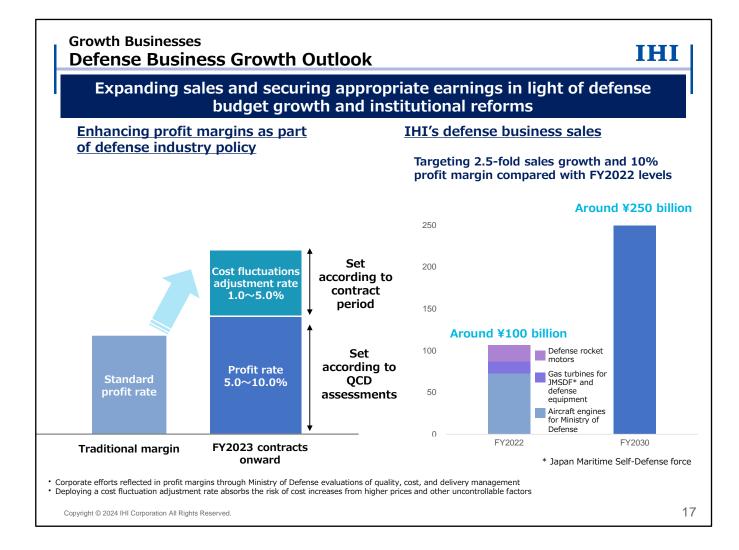
- Here, we show our business growth trajectory.
- The blue section in the center represents the value chain, beginning with R&D and engineering.
- A key IHI strength is that we can add value across the entire value chain, from upstream formed and fabricated materials manufacturing to operational support.
- The production and technology underpinnings that are among our core strengths originated with our defense business. We later leveraged these foundations to enter the global aero-engine business, which has grown significantly.
- We aim to grow over the medium through long terms by further exploiting synergies between our civil aero-engine and defense businesses.
- First, as you see on the right part of the slide, we will globalize our defense business.
 - We will collaborate with the Japanese government to contribute to its national security policy by tapping our experience in joint international projects for civil aero- engines in developing global defense projects.
- Then, as you see in the left of the slide, we will adopt a dual use approach.
 - We will employ advanced technologies that we have cultivated in the defense and civil sectors to seize new opportunities and expand our business.



- On this slide, we illustrate the growth potential of our civil aero-engine business.
- As Japan's top manufacturer of these engines, we participate in development and mass-production programs for best-selling models in everything from small to large classes.
- Sales of new engines should continue increasing with air travel demand.
- Sales of profitable aftermarket offerings should thereby also rise.



- Next, we show our defense business approach.
- As the graph on the left shows, Japanese defense budgets have expanded significantly in response to the government's policy of "Fundamental reinforcement of Japan's defense capabilities".
- The National Defense Strategy and other documents outline seven priority programs for this reinforcement. The government is allocating spending to areas where IHI has particular strengths.
- We will expand our business while harnessing our technological edge.



- Next, , we show our defense business sales expansion and profit margins.
- As mentioned earlier, Japan will expand its defense budget, and its new defense industry policy includes measures to enhance profit margins.
 - By having our strengths in quality, cost, and delivery management recognized as part of our corporate endeavors, we will be allowed to achieve a base profit margin of up to 10%.
 - There will also be a cost fluctuation adjustment rate of 1% to 5%, depending on contract periods, to account for price increases and other factors beyond our control.
- We target defense business sales of around ¥250 billion and a profit margin of 10% by fiscal 2030.

Growth Businesses Global Combat Air Programme (GCAP) Engagement



Enhance collaboration with government and British and Italian companies to advance program

- IHI has participated as engine provider since 2020 in Ministry of Defense's next-generation fighter aircraft development project
- Under GCAP, will play a vital role by stepping up collaboration with the public and private sectors
- Exercise our engineering capability to ensure GCAP's success and contribute to Japan's security and industrial advances



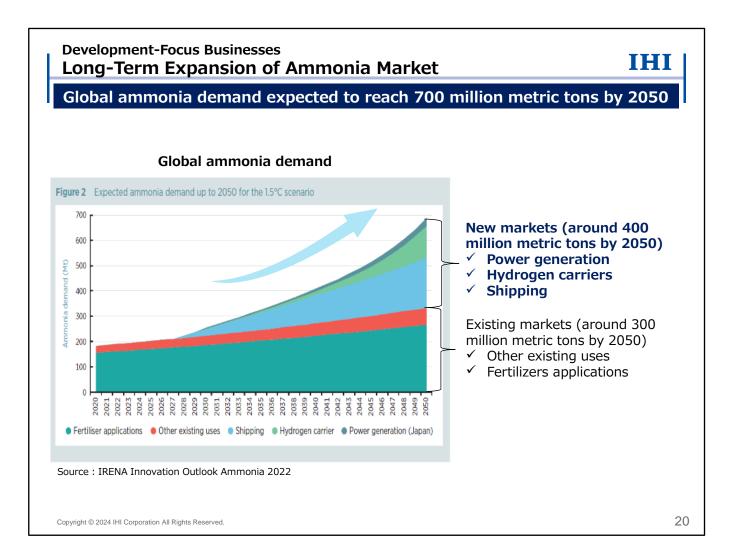
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- Finally, we would like to touch on the Global Combat Air Programme.
- We will play a vital role in engine development and help reinforce Japan's defense capabilities and international collaboration.
- On top of that, through this business we will:
 - Develop people who can play active roles in our global business
 - Train and deploy highly skilled engineers
 - · Contribute to Japan's industrial progress

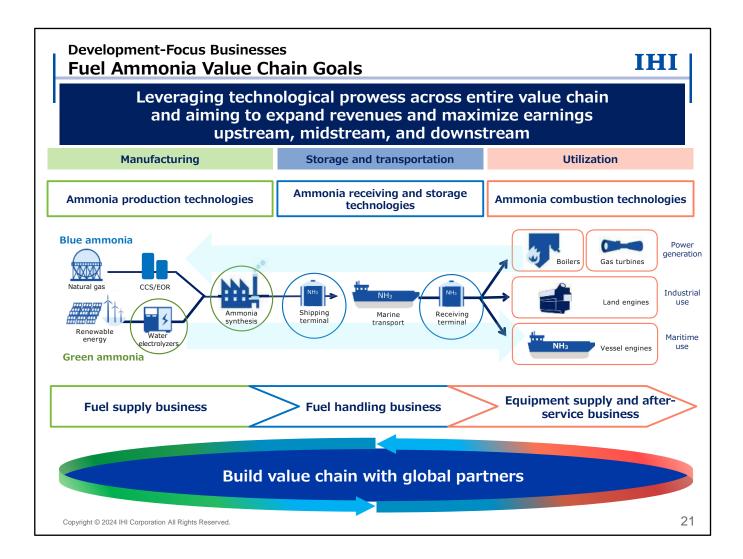




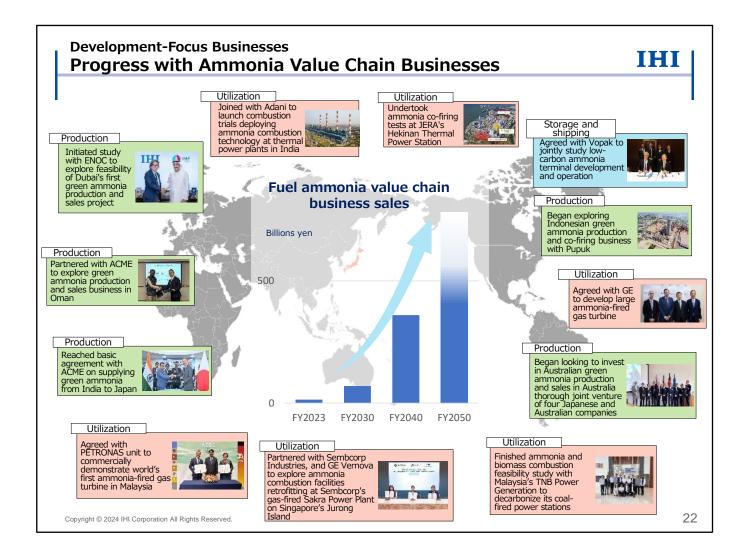
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- This slide presents projections for global ammonia demand.
- New demand, primarily for fuel ammonia and hydrogen carriers, should surge from the second half of this decade.
- Global ammonia demand should more than triple to around 700 million metric tons by 2050.



- Here, we overview the fuel ammonia value chain.
- We were the first company to focus on ammonia as a fuel for a carbon-free era. We have developed technologies for utilization, receiving and storage, and production.
- While maintaining our technological strengths, we have thus become one of few players involved in the entire value chain, from fuel production through receiving and storage and utilization.
- To create a carbon-free world, it is essential to build a value chain where upstream, midstream, and downstream processes work together seamlessly to generate value.
- We will leverage our technological strengths to help reach that goal, striving to expand sales and maximize earnings across the entire value chain.



- This slide highlights efforts with global partners to build a value chain.
- While the investment phase will continue for the foreseeable future, we expect contributions to sales and earnings to begin from fiscal 2030, with our business growing significantly toward fiscal 2040.
- We will keep creating new value for customers by harnessing our internal technologies and the technologies and expertise of a range of partners to create a global value chain.



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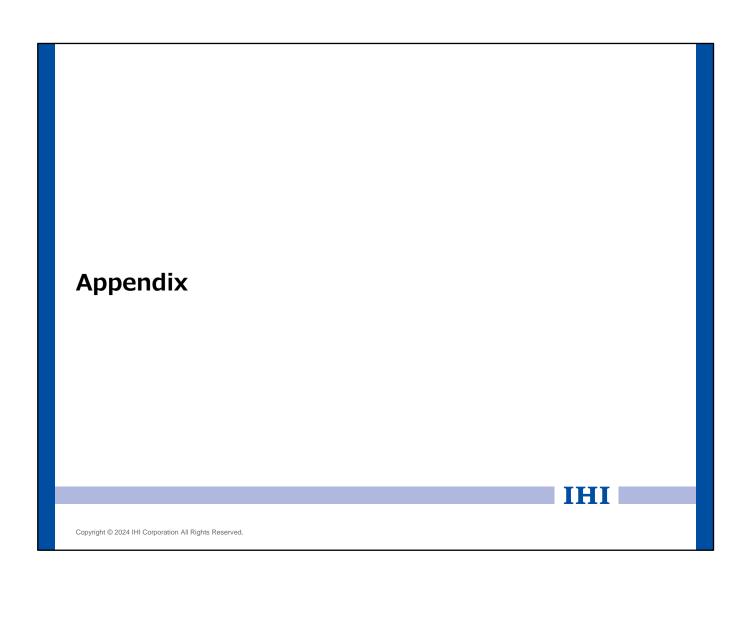
By integrating, uniting, and enhancing the diverse technologies as the sources of our value, we forge new value for our customers moving beyond traditional products and services

Technology is the cornerstone of everything we do and the value we deliver. It spans everything from the regular to the revolutionary. We enhance the strength and value of our technologies by strategically combining them.

Historically, we have focused on delivering value through products. In coming years, we will concentrate more on value itself, seamlessly aligning it with what our customers seek. We remain committed to forging meaningful connections with the value we provide.

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Appendix 1: Previous Disclosure Materials

IHI

- ✓ Business Area Briefings (on September 27, 2023)
 - Resources, Energy & Environment
 - Social Infrastructure
 - Industrial Systems & General-Purpose Machinery
 - > Aero Engine, Space & Defense

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Appendix 2: Links for Sources (some in Japanese only)

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P.11 *1 Maritime Self-Defense Force website *2 Maritime Self-Defense Force website

*3 Air Self-Defense Force website *4 AIRBUS

*5 Wikimedia Commons *6 Air Self-Defense Force website

*7 GE Vernova

*8 Wikimedia Commons

https://www.mod.go.jp/asdf/equipment/sentouki/F-15/index.html https://mediacentre.airbus.com/element?id=542614

https://commons.wikimedia.org/wiki/File:Boeing_SUGAR_Volt_concept_aircraft_2010.jpg https://www.mod.go.jp/asdf/equipment/other/Patriot/index.html https://www.gevernova.com/gas-power/products/gas-turbines/lm2500 https://commons.wikimedia.org/wiki/File:CT7_T700_P1220751.jpg_(Copyright: David Monniaux)

https://www.mod.go.jp/msdf/equipment/ships/ddh/izumo/https://www.mod.go.jp/msdf/equipment/rotorcraft/patrol/sh60k/

*1 Air Self-Defense Force website *2 Maritime Self-Defense Force website

*3 Air Self-Defense Force website *4 Ministry of Defense website

https://www.mod.go.jp/asdf/equipment/other/Patriot/index.html https://www.mod.go.jp/msdf/equipment/ships/ddh/izumo/

https://www.mod.go.jp/asdf/equipment/sentouki/F-15/index.html https://www.mod.go.jp/j/policy/defense/nextfighter/index.html

*1 Based on Medium-Term Defense Program (FY2019~FY2023) and Defense Build-Up Program
*2 Maritime Self-Defense Force website https://www.mod.go.jp/msdf/release/202211/202

*3 Northrop Grumman

https://www.mod.go.jp/msdf/release/202211/20221121-1.pdf https://wpcontent.ot5o9s93syrb.net/wp-content/uploads/GEOStar-1-DS-64.pdf

*4 Cabinet Office website https://www8.cao.go.jp/cstp/anzen_anshin/20221021_meti_3.pdf

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*1 Ministry of Defense website https://www.mod.go.jp/j/policy/defense/nextfighter/index.html

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