# FY2022 Business Unit IR Meeting

# Challenges for the Decarbonization and Recycling Energy Business

Shingo Ueno, Executive Vice President, Head of Energy Innovation Initiative (EII) December 8, 2022



#### Cautionary Statement Concerning Forward-looking Statements

This report includes forward-looking statements relating to our future plans, forecasts, objectives, expectations and intentions.

The forward-looking statements reflect management's current assumptions and expectations of future events, and accordingly, they are inherently susceptible to uncertainties and changes in circumstances and are not guarantees of future performance. Actual results may differ materially, for a wide range of possible reasons, including general industry and market conditions and general international economic conditions. In light of the many risks and uncertainties, you are advised not to put undue reliance on these statements.

The management forecasts included in this report are not projections, and do not represent management's current estimates of future performance. Rather, they represent forecasts that management strives to achieve through the successful implementation of the Company's business strategies. The Company may be unsuccessful in implementing its business strategies, and management may fail to achieve its forecasts. The Company is under no obligation -- and expressly disclaims any such obligation -- to update or alter its forward-looking statements.





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# **Overview of Ell**

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#### **Overview of Ell**

### **Establishment of Energy Innovation Initiative (EII)**

- Ell established in April 2021 as a new business organization to create next-generation businesses that will contribute to carbon-neutral society
- From a bird's-eye view of sustainable energy cycle, aiming to create and expand next-generation energy-related businesses based on the following three focused areas



#### Overview of the Decarbonization and Recycling Energy System and Three Focused Areas

- Overview of the decarbonization and recycling energy system that will contribute to carbon-neutral society designed by EII
- From a value chain perspective, classified three focused areas which EII will work for value creation



#### **Overview of Ell**

### Ell Organization Chart & Focused Areas





# **Ell Growth Strategy**

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#### **Ell Growth Strategy**

### Image of Invested Capital in the Next-Generation Energy Field

- From a perspective of the entire value chain in the next-generation energy field, build a sustainable revenue base through the creation of businesses that contributes to stakeholders' CO2 reduction
- Aiming to achieve 1.5 trillion yen of invested capital in the next-generation energy field company-wide by 2030



#### **Ell Growth Strategy**

### Business Development Progress in the Next-Generation Energy Field

- Pursuing both "business development in the three focused areas" and "cross-organizational initiatives with other business units" to build the decarbonization and recycling energy business
- Promoting business development at various stages and building foundations globally to create next-generation business that contribute to a carbon-neutral society



03

## **Introduction of Initiatives Toward Growth**

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### Large-Scale Energy Storage Business -Progress so far and Plans for Future-

- Developing future projects in the large-scale energy storage business in anticipation of the need to stabilize the power grid, which is
  necessary for the realization of a society that introduces renewable energy on a large scale
- With the system revision resolution in 2023, verify monetization in the electricity balancing market and move to the stage of asset expansion nationwide



#### Introduction of Initiatives Toward Growth: Example 1

#### Large-Scale Energy Storage Business -Vision-

- Aim to establish and expand business foundation, after verification of business feasibility
- Utilize know-how and experience accumulated through operation of owned assets, and extend them to outside assets



#### Introduction of Initiatives Toward Growth: Example 1

### Large-Scale Energy Storage Business -Our unique strategy-

- First to launch a "4R (battery reuse) business," which will be the critical path to connect a decarbonized society, in anticipation of an electrified and renewable energy-based economy and society
- Desire to build a sustainable "ecosystem" by realizing monetization of the "large-scale energy storage business" using 4R batteries



#### Hydrogen Production Project in Gladstone, Australia -Past Initiatives and Future Prospects-

- Produce hydrogen at Rio Tinto's alumina refinery, half of which will be supplied for pilot testing
- Supply the remainder to hydrogen customers in Gladstone to aggregate demand for hydrogen business expansion



### Hydrogen Production Project in Gladstone, Australia -Steps for Commercialization and Vision-

- Step by step approach for commercialization of hydrogen production business
- Scale up hydrogen production business by aggregating demand, and ensure business feasibility by realizing cost reductions
- Aim to contribute to the decarbonization not only Gladstone but also Japan and other countries



Commencement of hydrogen export

#### Closing

### Ell aims to develop the decarbonization and recycling energy system





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