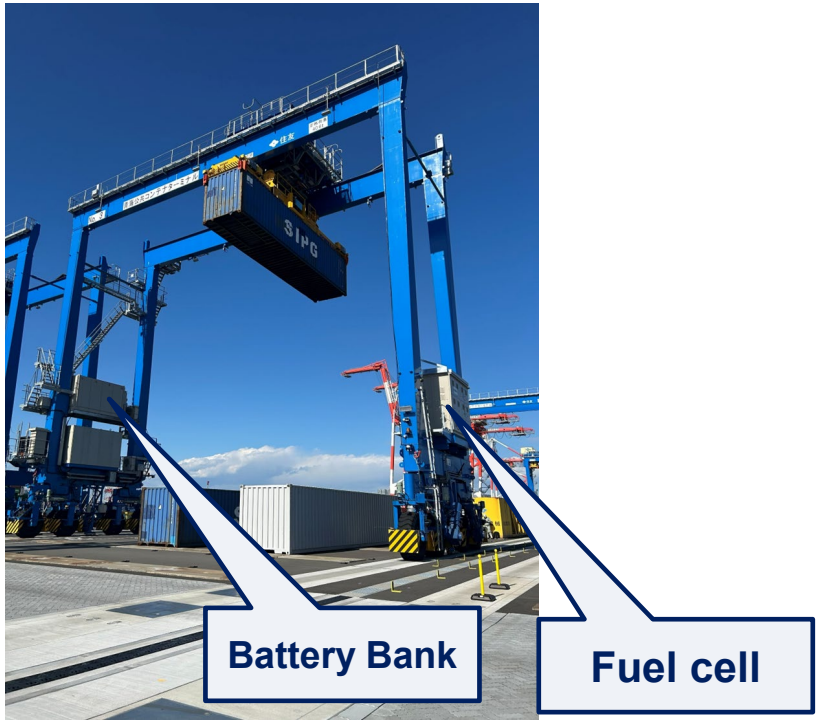
Fuel-Cell Hybrid RTGs

R&D | FS/Demo | **Product/ Service**

Sumitomo Heavy Industries Material Handling Systems Co., Ltd.

- Fuel-cell hybrid RTGs will use **a fuel cell (FC)** as the main power supply device, **thus eliminating the conventional diesel engine generator.**
- Using a fuel cell would enable **zero CO_2 emissions**.
- By adapting a battery bank hybrid type, the company's proprietary "Simultaneous Optimization Control technology of Power and Efficiency" will minimize the fuel cell size, realizing a higher level of energy saving.
- Fuel-cell hybrid RTGs will contribute to carbon neutrality at ports moving forward to hydrogenation.



Carbon Neutral Contribution points

- ✓ **Zero CO_2 emissions due to eliminated the diesel engine generator**
- ✓ The hybrid RTG **can be operated with a minimum-capacity fuel cell**

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