Hybrid RTGs

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

Sumitomo Heavy Industries Material Handling Systems Co., Ltd.

- Rubber Tired Gantry cranes (RTG) are widely used in container terminals to stack containers. RTGs are equipped with diesel engine generators to freely travel within the container terminal.
- The company's hybrid power pack is designed to combine storage batteries with a diesel engine generator to supply power for the RTG motion. By applying this design, **the hybrid RTG requires a reduced engine size while maintaining the necessary power with the help of the company's proprietary regenerative power control technology, reducing CO_2 emissions and improving fuel efficiency (a 60% reduction).**
- This hybrid power pack can enable future replacement of the diesel engine generator **with a fuel cell (FC), achieving zero CO_2 emissions.** This will contribute to carbon neutrality at ports moving forward to hydrogenation.

Carbon Neutral Contribution points

- ✓ **Reducing CO_2 emissions by about 60% while maintaining the necessary power**
- ✓ **Achieving zero CO_2 emissions is possible by converting the diesel engine to a fuel cell (FC)**

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