



TOWARDS A SUSTAINABLE FUTURE: DEVELOPING GREEN AND LOW-CARBON PORTS

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Shanghai Zhenhua heavy industries CO., LTD.



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1 Background



**Operation
Productivity**

**Environmental
Protection**



**Energy
Consumption**



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01. Background

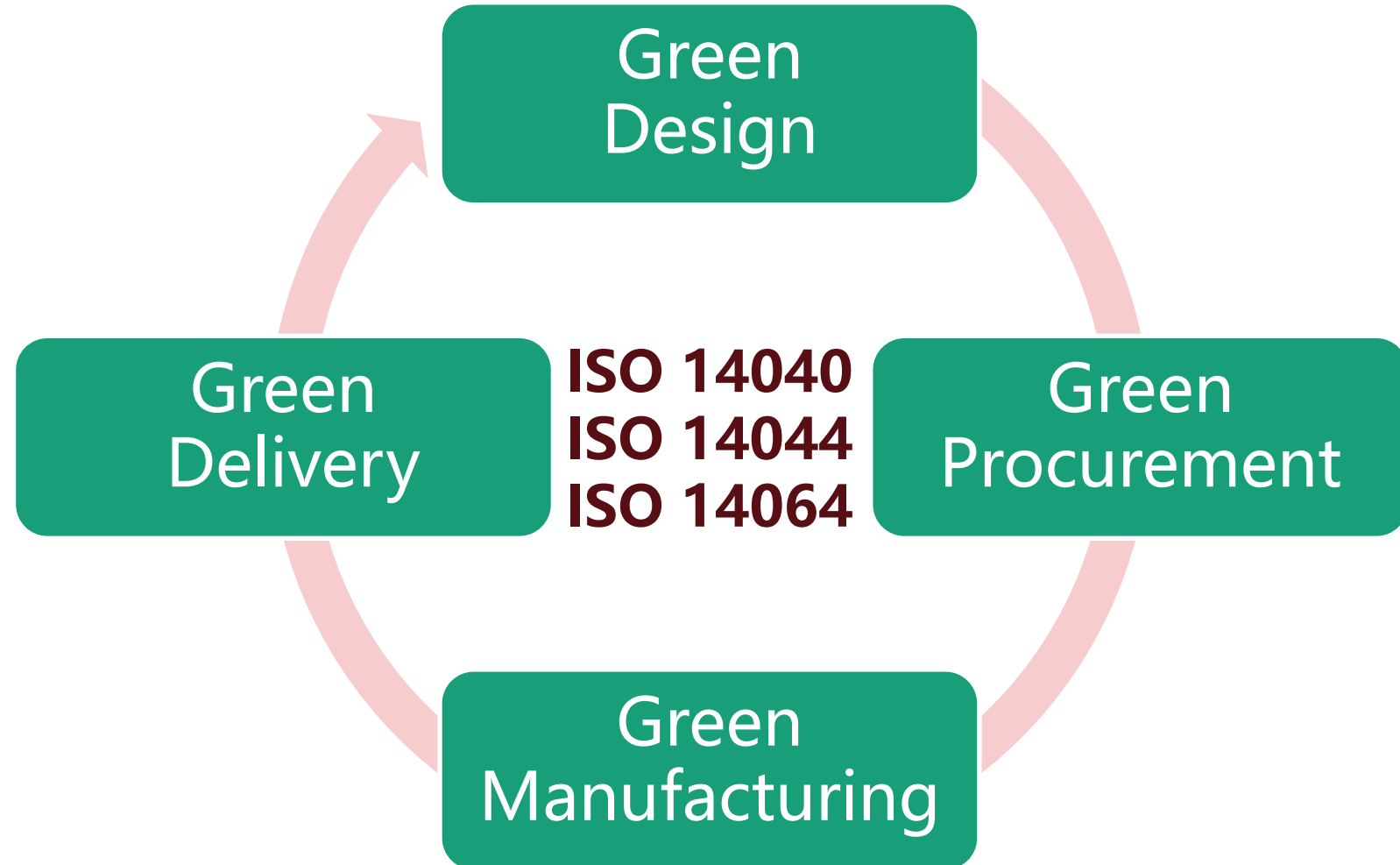
02. Current Work

03. Future Outlook

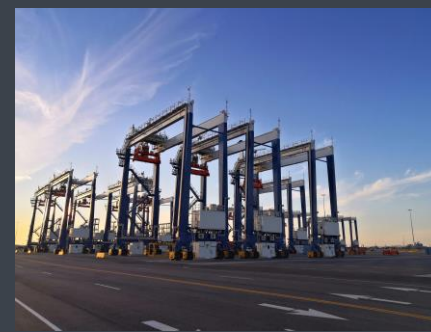
2 Current Work



ISO 14067



2 Current Work



Hybrid with Super Capacitor

Hybrid with Lithium Battery

Hybrid with LNG

Electrified Driven

Lithium Battery Driven

Hydrogen Fuel cell Driven

Energy saving technology application on yard crane

2 Current Work



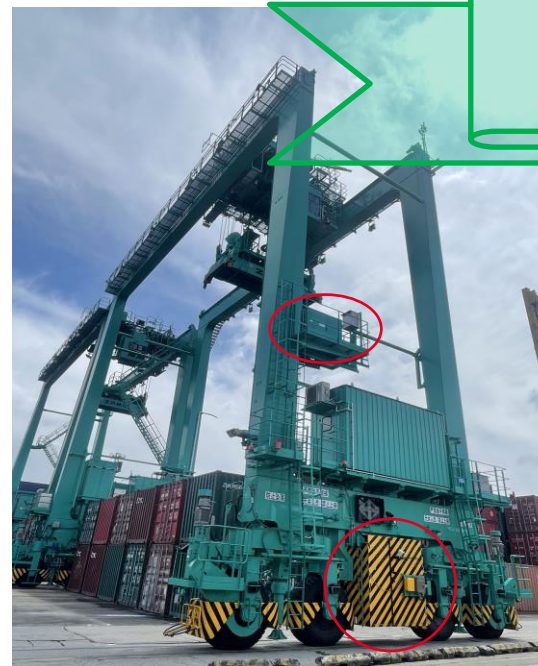
Lithium Battery Driven RTG

Hydrogen Fuel Cell Driven RTG

Green Design



**CO₂ reducing
more than 200 ton**



**CO₂ reducing
more than 300 ton**

2 Current Work

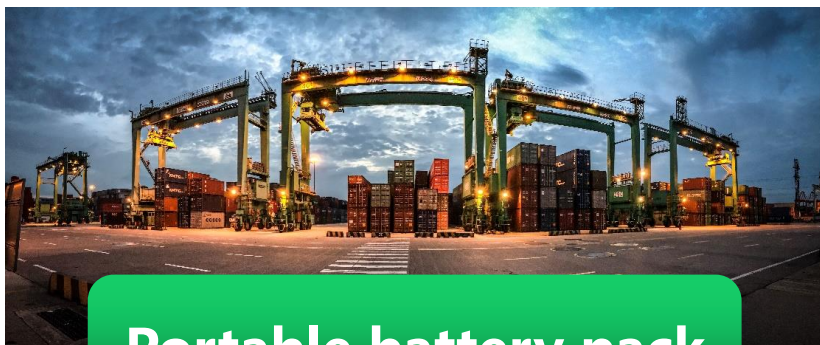


Green products, mobile machinery

E-Type Vehicles



LNG、Hydrogen SC



Portable battery pack



AGV/IGV

2 Current Work



Lightweight Design

Green Design



Semi-circular Boom STS&RTG

Truss boom STS

Model S ASC

All pipe structure

2 Current Work



Green Procurement



Establish a supplier green standard access mechanism



Establish an expert database for cross-field supplier inspections



Establish a green factory supplier directory



Promote suppliers to improve green management system certification

2 Current Work



Paint-shop Upgrade



Welding Smoke Control

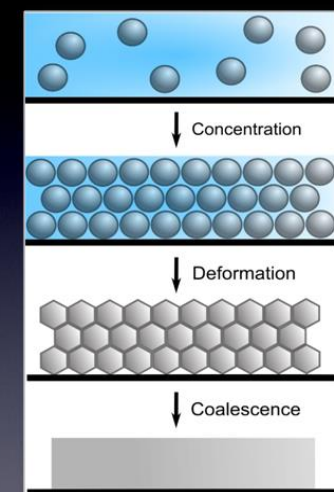


Automatic Production Line

- Water is used for dilution and cleaning 水作为稀释和清洗
- Film formation of dispersion paints 涂层成膜机理



Green Material



2 Current Work



Green Delivery



Shipping Plan

Optimize shipping plans to avoid separate shipments for each port.



Marine Paint

Utilize premium marine paint to reduce hull resistance and fuel consumption.



Shore Power

Equipped with shore power devices, enabling to switch to shore power upon berthing.



Energy Monitoring

Aids in selecting the optimal speed, optimizing draft, and adjusting engine status.



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3 Future Outlook



④ Carbon Management

Refine the carbon management process, establish a carbon emission accounting system, and promote carbon footprint research

③ Energy Management

Monitor energy operation data, optimize energy consumption, and improve terminal energy utilization

② Green Energy

Energy storage, Photovoltaic
Wind power plant

① Equipment Improvement

Equipment electrification
low-carbon or zero-carbon fuels replacement

Carbon Neutrality





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SHANGHAI ZHENHUA HEAVY INDUSTRIES CO., LTD.

GREEN DRIVES LIFE