



CCS Green Eco-Technology Applications

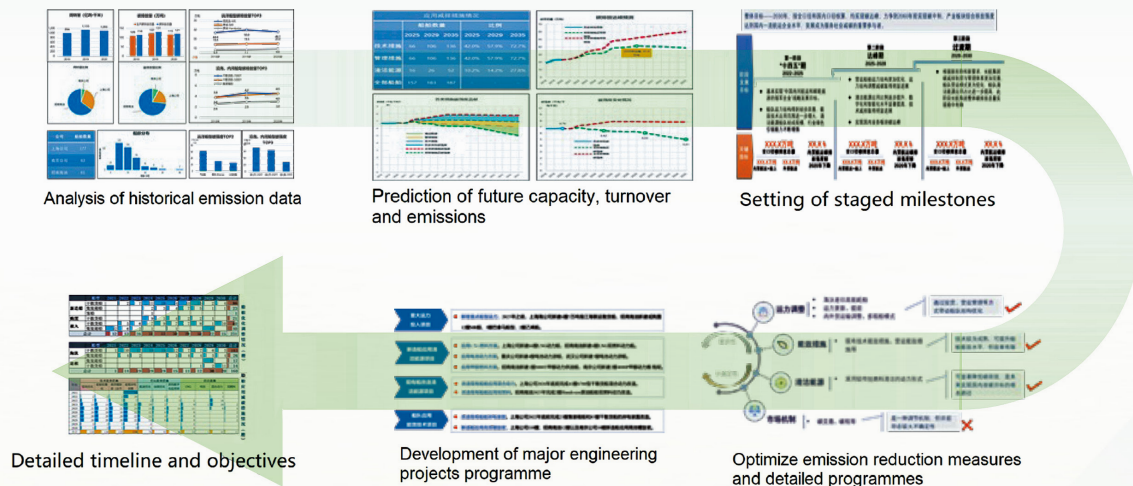
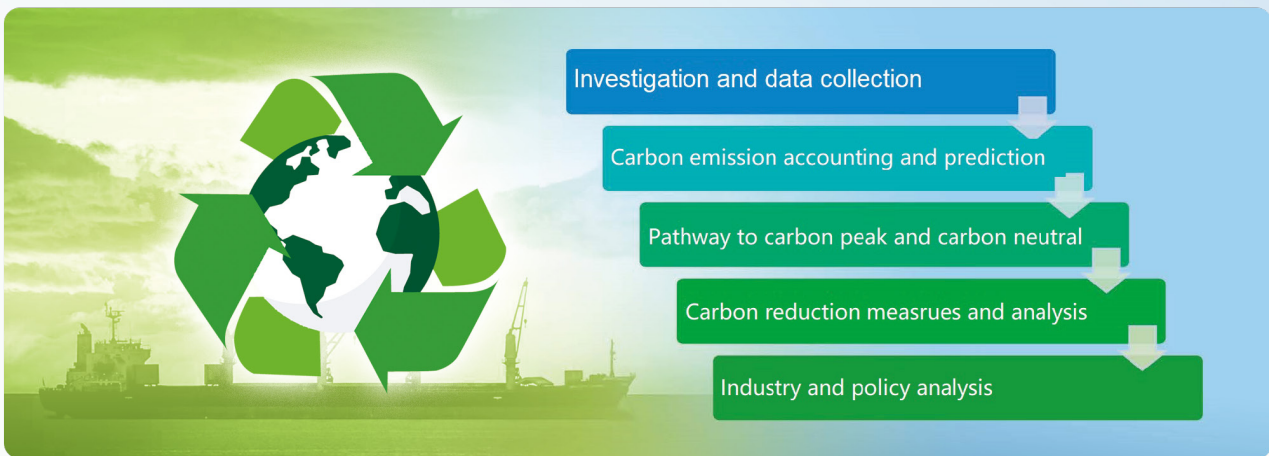


● Scope of Services

- Green ecology-related policies and regulations
- Assessment of GHG emissions from shipping
- Ship energy efficiency optimization and validation
- Intelligent energy efficiency management technology for ships
- Carbon reduction technologies for shipping and shipbuilding
- Life and health technologies on ships
- Integrated assessment and validation system for green eco-technologies in shipping



● Technical services related to decarbonization of the shipping industry

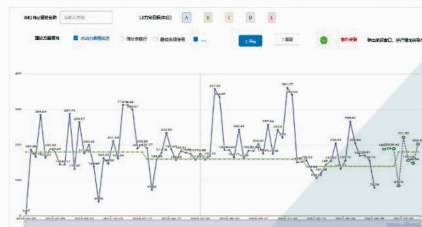


● Carry out technical services related to GHG emission reductions

- Full life cycle GHG emissions accounting and certification
- Real-time carbon emissions monitoring and visualization
- Establishment of modeling algorithms adapted to different specific demand scenarios, analysis of emission reduction measures and carbon emission control benefits
- EU ETS, FuelEU Maritime Regulation Impact Analysis
- One-stop solution for greenhouse gas emission reduction in shipping



Monitoring and management of shipping emissions



Dynamic assessment of energy efficiency



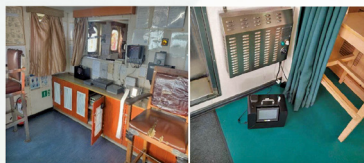
Module for analysing ship's OPEX under market mechanisms



Assessment and certification of full life-cycle GHG emission intensity of marine fuels

● Air quality and bio-environmental health monitoring services for ships

- Development of monitoring, testing and evaluation, and validation methodologies for air quality and bio-environmental health-related indicators and prevention and control on ships
- Establishment of a monitoring system for the prevention and control of air quality and biological environmental health on ships
- In conjunction with the industry, CCS prepared and published the *Guidelines on Ship Epidemiological Safety*, the *Technical Requirements for On-Line Monitoring of Bioaerosol Particle Concentration in Ships' Compartment*, and the *Guidelines for Monitoring and Evaluation of Air Quality and Biohazardous Factors in Ship's Compartment*.





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