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SUSTAINABLE GREEN TERMINALS DEVELOPMENT

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- 1 CMG/CMHI / SCT Introduction**
- 2 Sustainable Green practices**
- 3 Achievements**





1 CMG/CMHI / SCT Introduction

2 Sustainable Green practices

3 Achievements



Precursor in the port and marine industry founded on CMG century heritage



China Merchants (CM) was founded to be dedicated to shipping in 1872, when China witnessed the Industrialization Movement of the late Qing Dynasty.



**Li Hongzhang,
Founder of China Merchants**



Headquarter in
Shanghai



“Yidun”, First CM
Vessel Bought in 1872

Core Business of China Merchants



Transportation and infrastructure related business



- ❑ Largest public port operator in greater China



- ❑ China's leading toll road and bridge investor and operator



- ❑ Leading logistics company in China



- ❑ The 9th independent oil tanker owner in the world, and the only VLCC fleet operator of China



- ❑ Largest container manufacturer in the world - CIMC
- ❑ CMIH: the Largest ship-repairing facility in HK and world-class ship repair base in Shenzhen

Finance business



- ❑ China Merchants Bank - model of the emerging commercial banks in China
- ❑ China Merchants Securities - ranking among China's top 10 comprehensive security dealers
- ❑ China Merchants Investments - the best-operated of its kind in Hong Kong financial market

Industrial Zone & Real Estate Development



- ❑ China Merchants developed in 1979 the 11-square-kilometre Shekou industrial zone, China's first industrial zone.



- ❑ Leading property developer in China - China Merchants Property

CMHI Global Port & Terminal Network

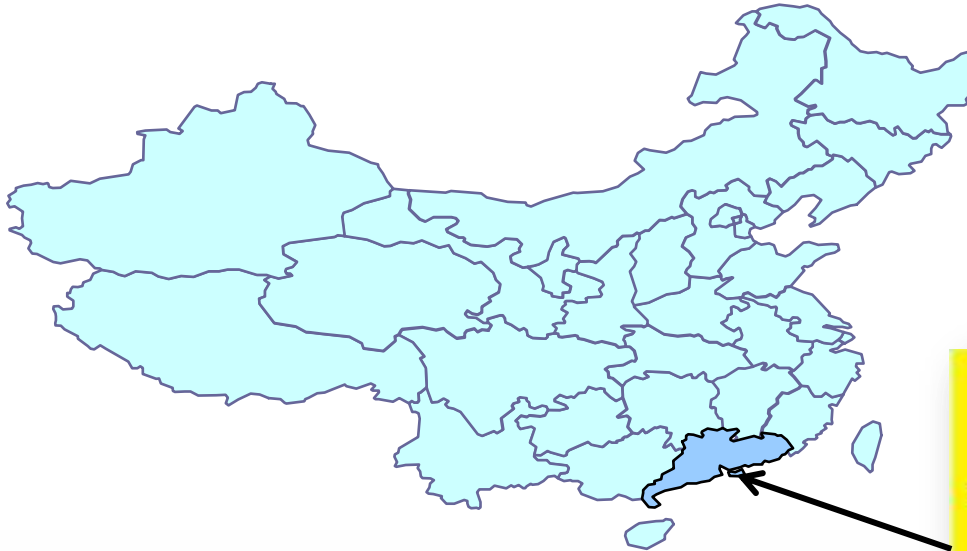


Aspiring to be a world class comprehensive port service provider

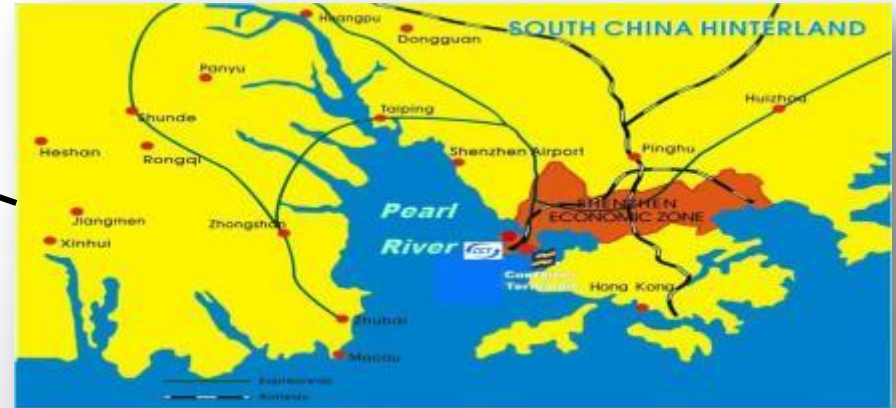
320+ berths
27 ports
14 countries & regions
4 continents



CMHI Shenzhen Base Port



Shekou is located at the estuary of East coast of Pearl River, benefiting from its unique location, it has become the marine gateway from PRD area to the world. The foreign trade amount of PRD accounts for one third of the whole nation.



CMHI Shenzhen Base Port



Item	CCT	SCT	Total
Berth	9	9	18
Length (m)	3,400	3,440	6,840
Draft (m)	-16	-16	-16
Crane (unit)	37	33	70
Ocean Service	44	79	123



SCT, China Merchants' Flagship Terminal

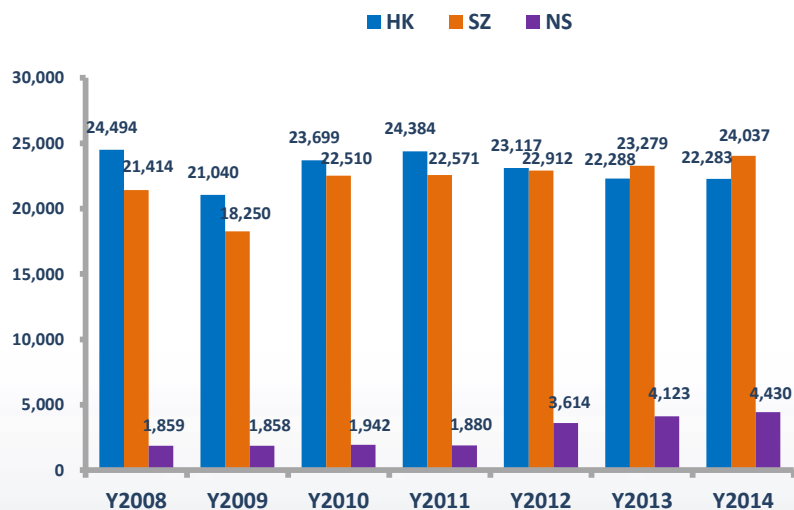


- 1st professional container terminals in Shenzhen
- TOP10 container terminals in China
- GREEN TERMINALS Pioneer

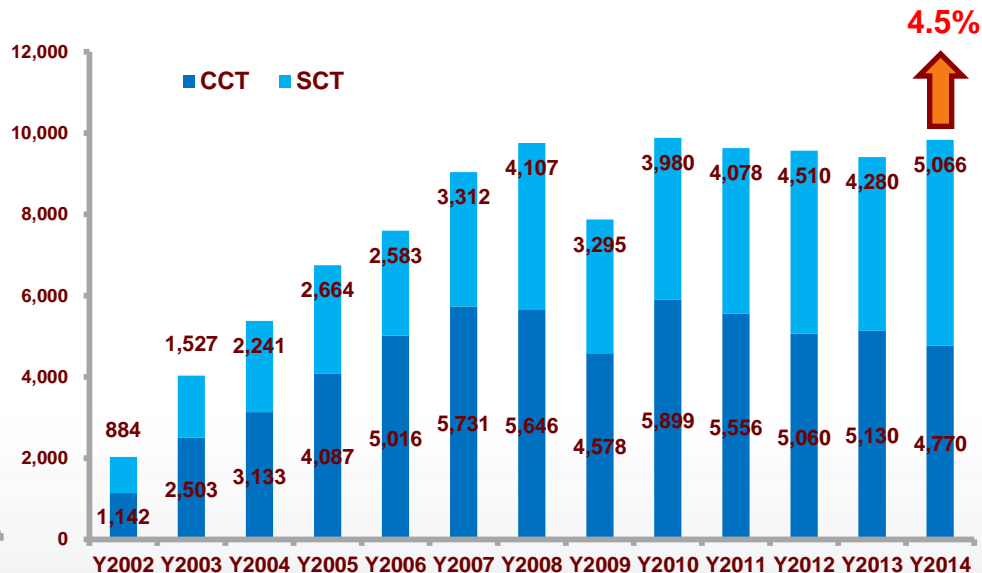
S.PRC & Western SZ Performance



S.PRC Terminals Throughput (2008-2014)



Western Shenzhen Throughput (2014)



Unit: '000 TEU



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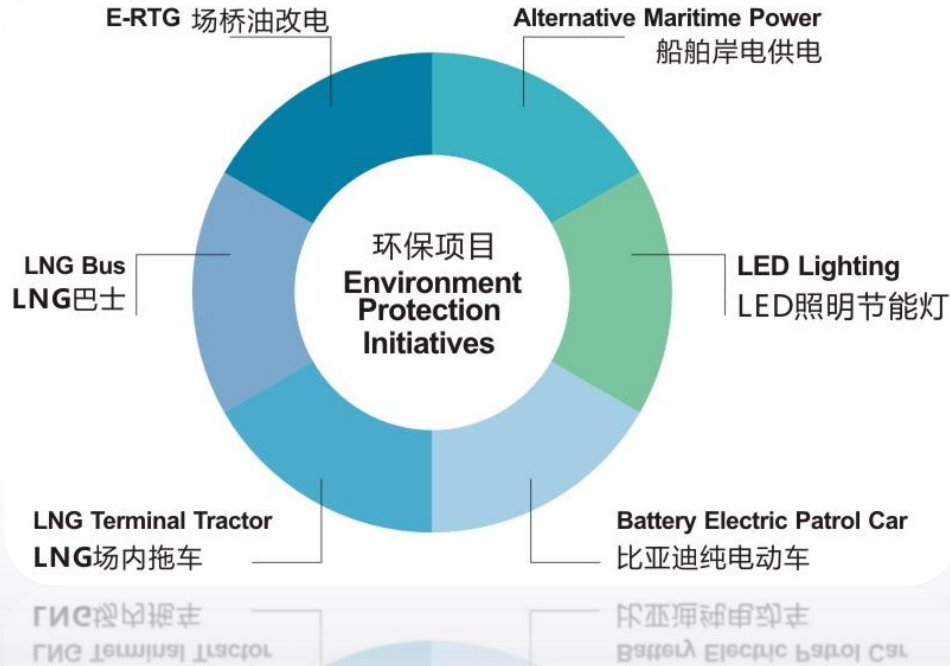


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**Green
Terminals
Pioneer,
ECO &
Sustainable**

”

SCT Green Initiatives



- **China's 1st Low-carbon demonstration terminals appointed by the Ministry of Transport of People's Republic of China**

- **ISO14001 certified**



- **Energy saving and waste reducing projects reduce exhaust emission by over 20,000 tons per year**

eRTG Project



- ✓ **Worldwide innovative Auto Drive-in System for contactor bar solution**
- ✓ **Full conversion & compliance within terminal yard**
- ✓ **Total investment over RMB 2.3 billion**
- ✓ **Reduce carbon emission by 20,000 tons per year**

Automatic Collector Car



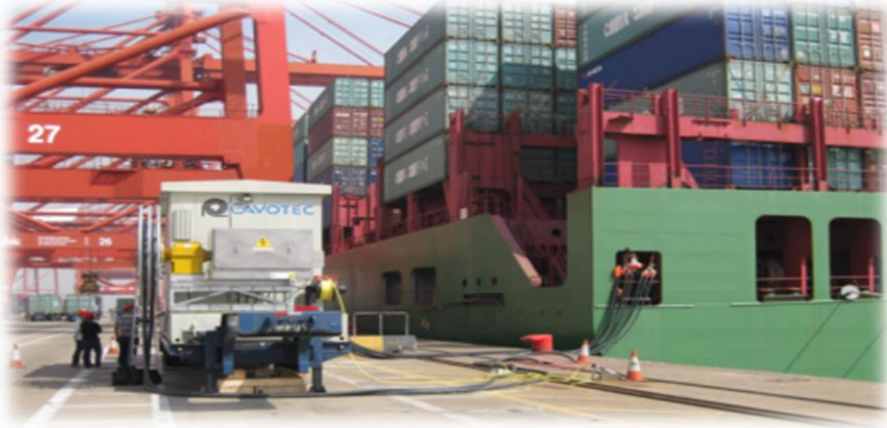
- **Patented invention certified**
- **eRTG project save diesel oil cost by over RMB 3 million, and reduce carbon emission by over 10,000 tons.**

Shore Power Supply



- **Alternative Maritime Power (AMP) device**
- **Low voltage connection device**

Alternative Maritime Power (AMP) Project



- **Total investment RMB 15.54 million**
- **World `s 1st high & low voltage dual supply**
- **Largest capability in China**
- **1st set made with international standard**
- **1st set inspected by the China Classification Society**

BYD Electric-powered Vehicles



- ✓ **Total investment RMB 3.6 million**
- ✓ **11 electric-powered vehicles vs. diesel's**
- ✓ **120,000kWh electricity vs.46 tons diesel per year**
- ✓ **Reduced CO₂ emissions more than 1,500 tons per year**
- ✓ **Energy cost down up to 60%**

LNG Project



- **2 LNG Stations**
- **6 LNG Buses**
- **58 LNG Trailers**
- **Total investment RMB 3.6 million**

LED Lighting



- **Total investment RMB 8.26 million;**
- **Completed renovation of 55 high-pole lamps by 2013 ;**
- **Reduce CO2 by 1,500 tons per year.**

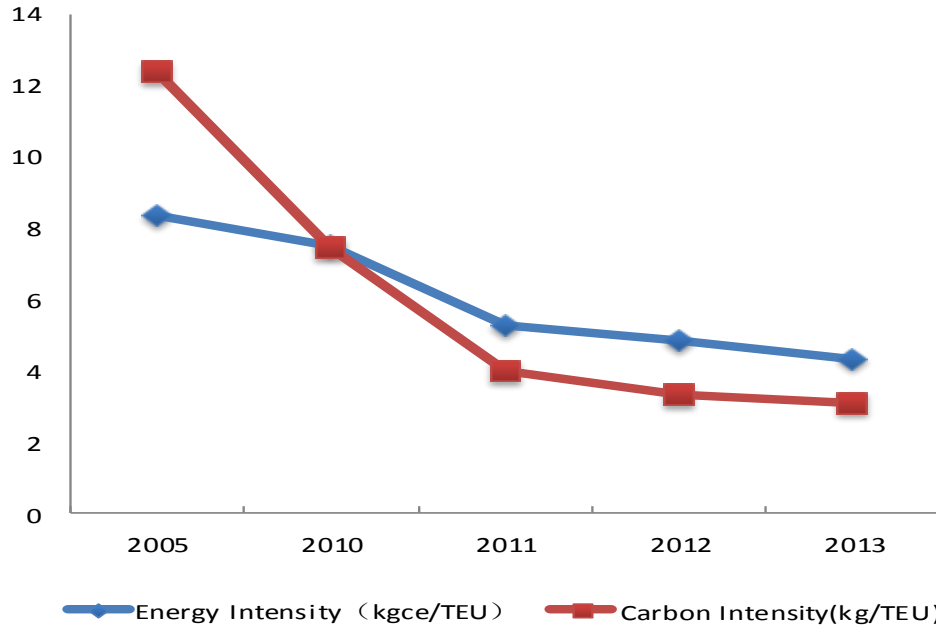




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Energy & Emission Reduction



- ✓ **Optimizing energy structure**
- ✓ **Diesel oil dependency reduced from 72% to 24%**



- **Participation in the national transport system of the Ministry of Transport of the Green Port thematic pilot project**
- **Participation in the formulation of Shore Power Supply & eRTG standards issued by Department of the Ministry of Transportation**



**Together We build
a greener World**



THANK YOU