

Electrification in ports and vessels -new business opportunities

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motivation

regulation
push
SOx, CO
Nox, B
noise

public
push
short
power

regulation
push
short
power in

maneu
ring
advanta

ener
efficie

battery &
smart grid
evolution

themes

hybrid
and
vesse

hybrid-
e-head
duty
machin

port eng
infra
investm

sho
pow

smar
grid

ports -
enablers
of smart
grid

objectives

understand
technological
potential

increase
market
understanding

create
scenarios
for the
future

enhance
cross
sector
opportunities

find new
business
opportunities

evaluate
need for
R&D

vision for today

lots
Q&A

many
new
contacts

segments
of
electrification
markets

better
big
picture
grasp

bench
marks
China
and US

co-creation
smart e-
port project

proposal

smart,
green and
pioneering
port
ecosystem

tools
increasing
flexibility of
energy
infra

tools for
demand
estimation
& response

integration
of e-port to
a smart
grid

intelligent
energy
storage
possibilities

creation of
business
concepts
and saving
potential

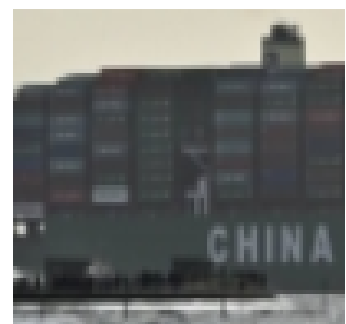
tools for
finding
optimal
energy mix

18 Dec 2012 | Shore power supply makes Swedish Ystad a

World's First All-Electric

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Reducing emissions with shore power



China wants wholesale switch to cold ironing

Ministry of transport wants 90% of ships visiting the country's major ports to be using shoreside power by 2020.

three shore power connection points. The number of cruise ships connecting to shore power has increased by 134 per cent in five years, reducing potential greenhouse gases by 8,400 tonnes. Considering an average personal vehicle emits four tonnes of greenhouse gas in a year, shore power has had the same impact of operators, particularly in Europe, the global market is likely to grow extensively during the forecast period.

