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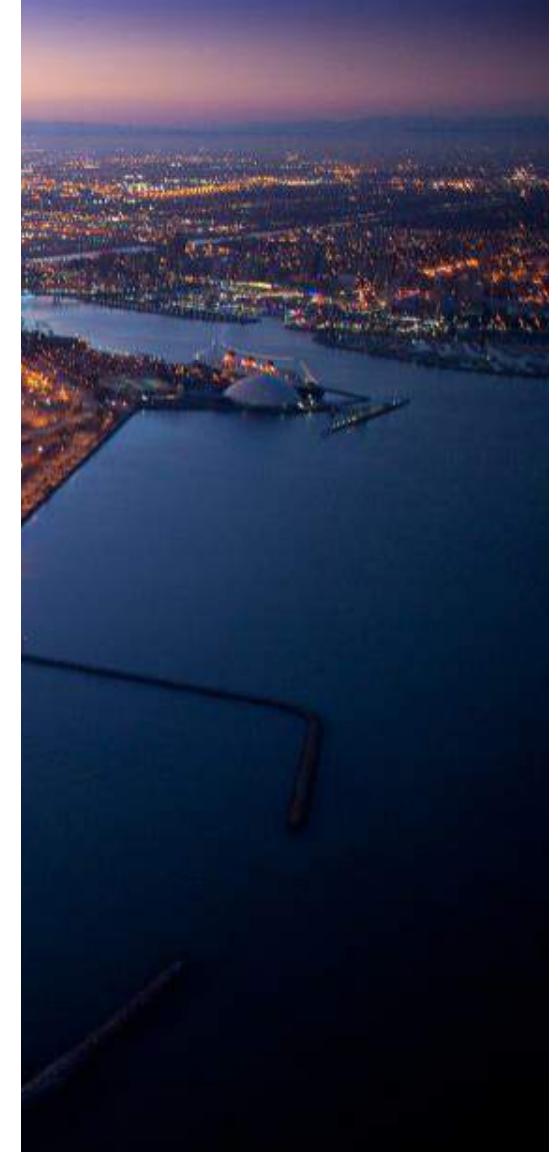
# In an Economic Crisis, Can We Still ‘Grow Green’?

Richard Steinke,  
Executive Director

# What I'm here to talk about



- How can we balance our economic and environmental challenges?
- How can we ensure sustainable trade growth?



# Who we are



America's 2<sup>nd</sup> busiest  
container port

\$140 billion in trade

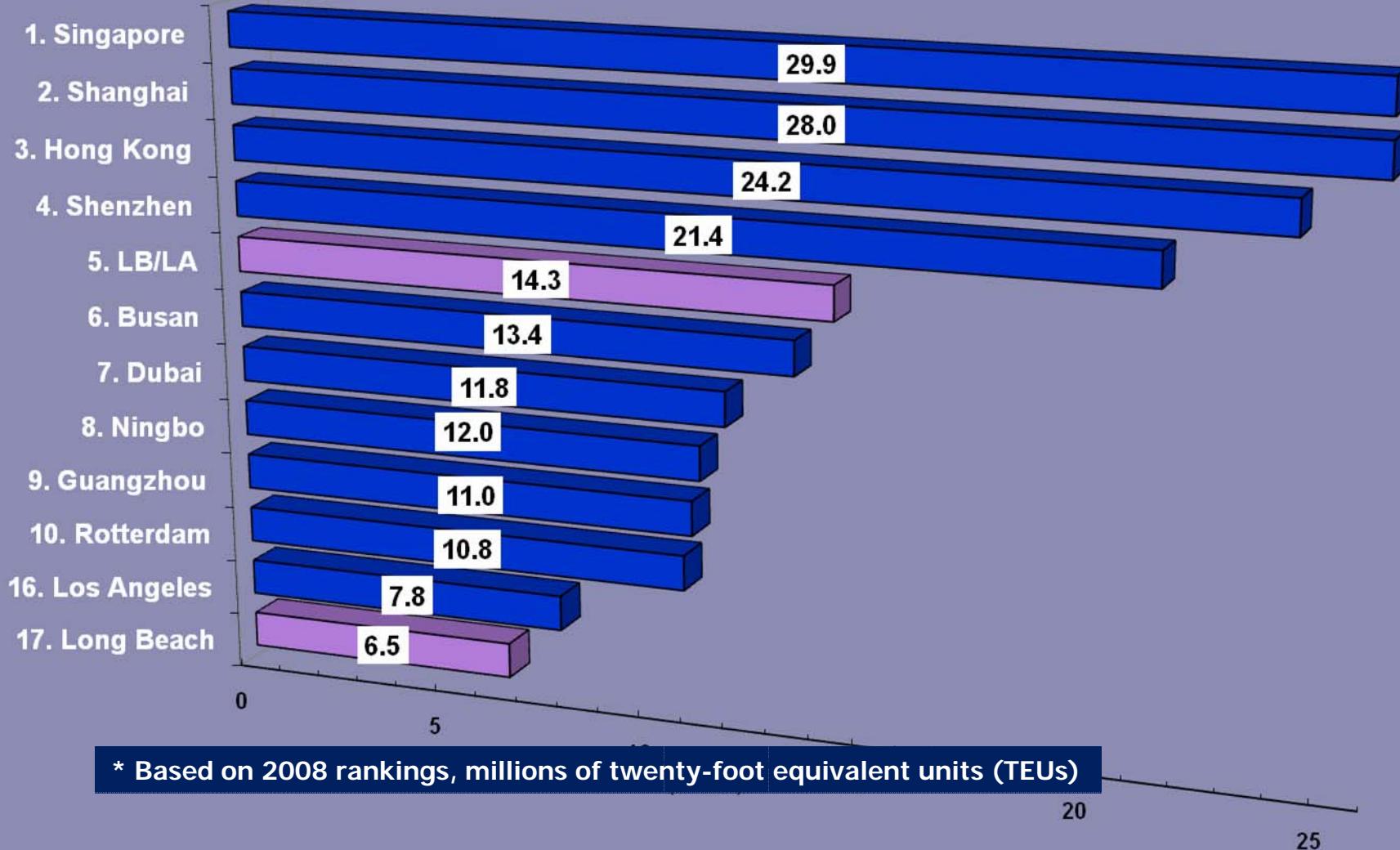
Leading gateway for U.S. –  
Asia trade



# Top world container ports



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# World economic crisis



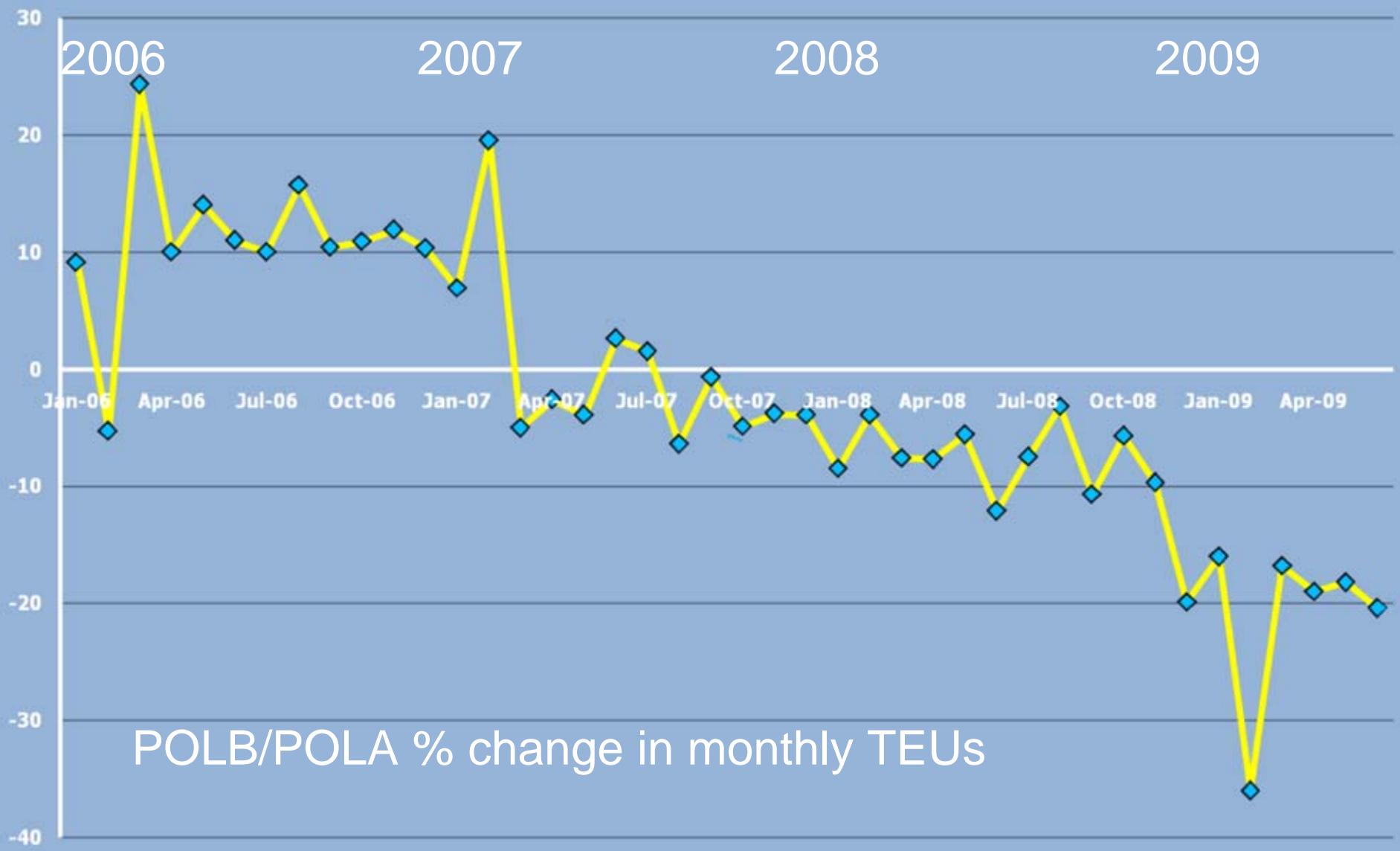
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Anxious consumers are not buying furniture, clothing, toys, cars...



# Declining trade

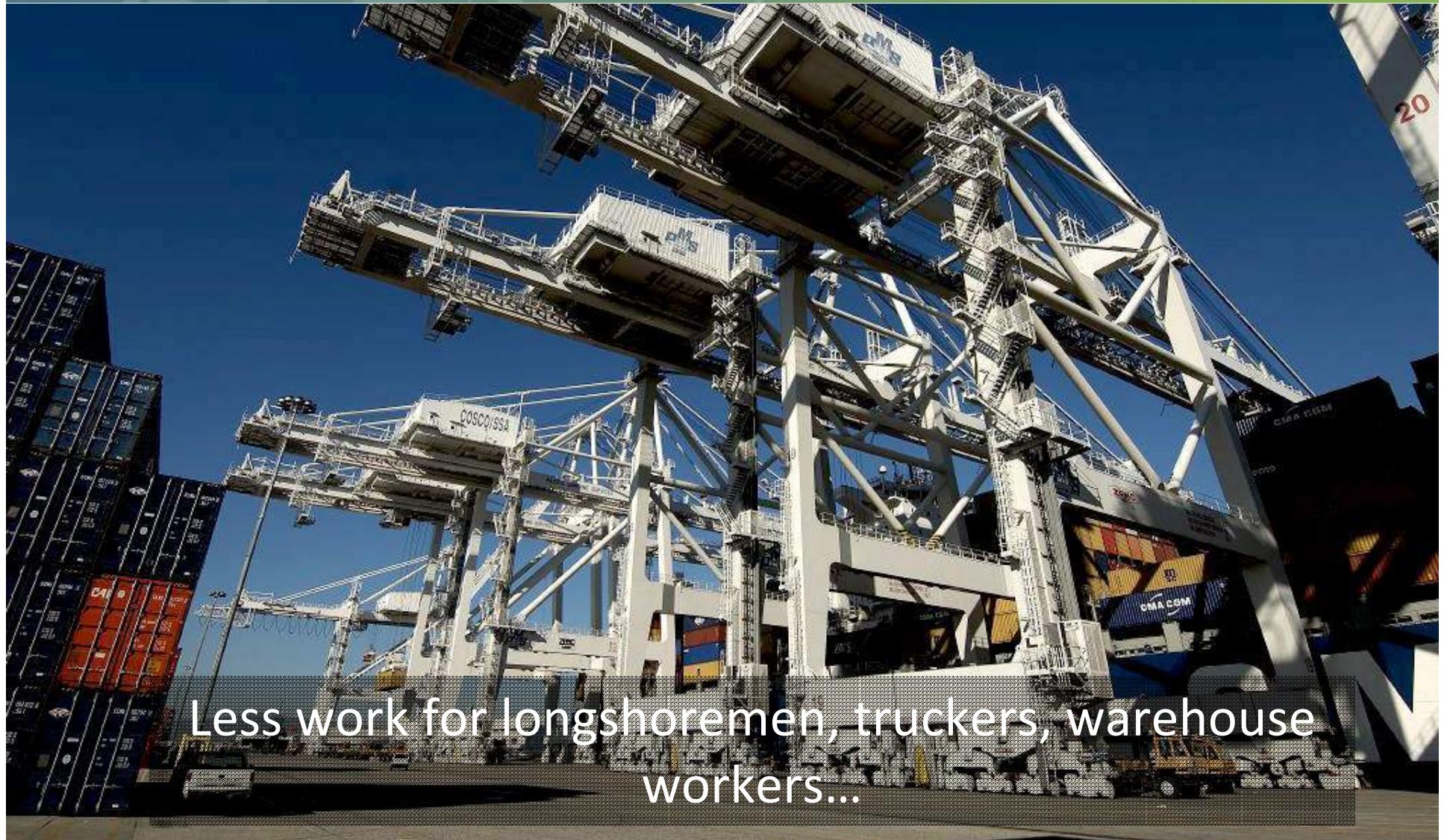


POLB/POLA % change in monthly TEUs

# Rising unemployment...



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Less work for longshoremen, truckers, warehouse workers...

# Dusting ourselves off



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Fiscally strong, ready to invest in improvements,  
economic recovery

# Green Port Policy



- Protect the community from negative Port impacts
- Distinguish Port as environmental leader
- Promote sustainability
- Employ best available technology
- Engage and education the community

# Clean Air Action Plan



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- Adopted groundbreaking Plan to reduce air pollution 45% by 2012
- Strategies for cleaner ships, trucks, trains, tugs, cargo-handling equipment
- Technology advancement program



# Raising the Green Flag



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93% participation; 650 tons less pollution

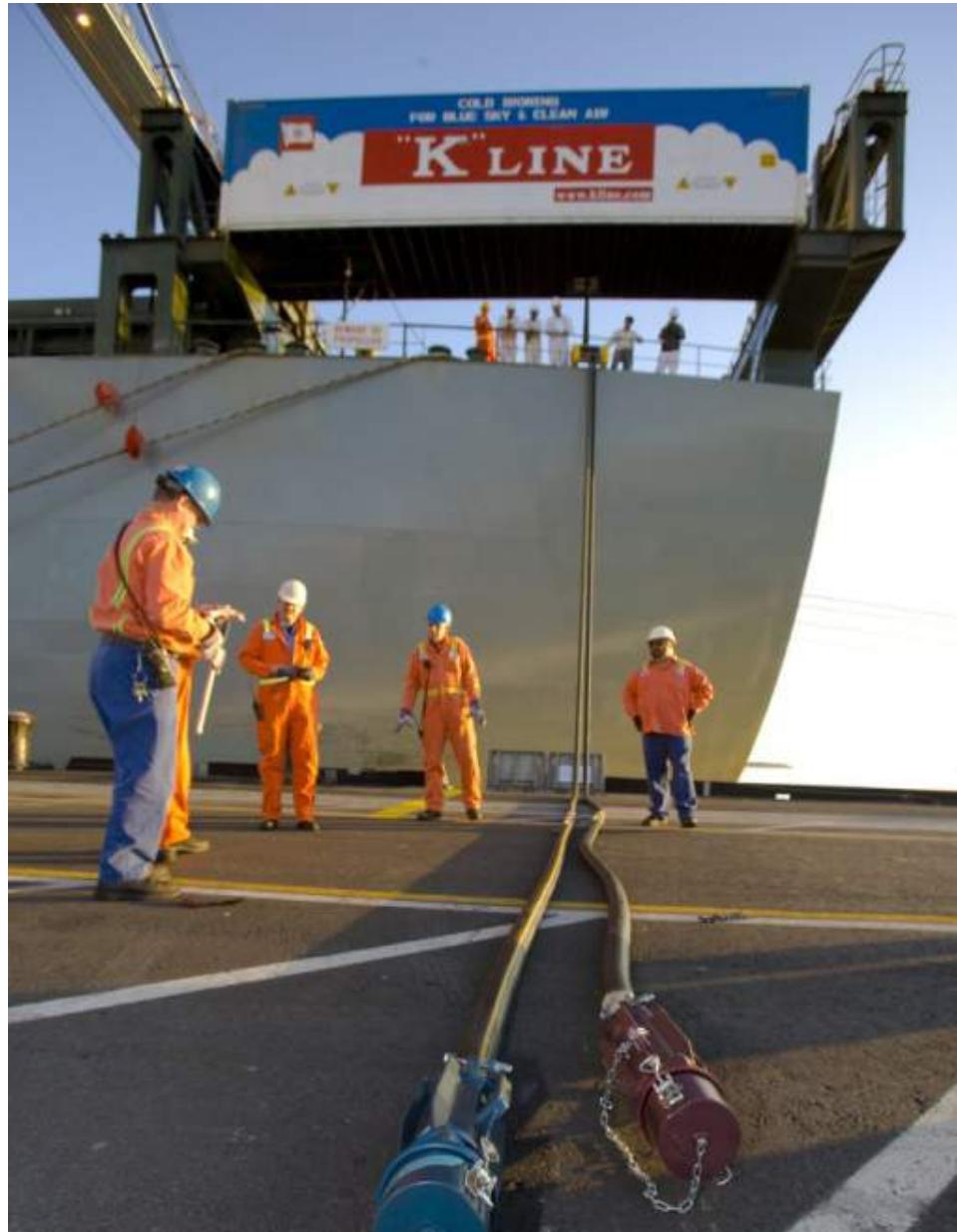
# Plug-in shore power



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- Ships plug into shore electricity, shut off engines, eliminating pollution
- By 2014, 50% of container ships will be required to plug in
- By 2020, 80% of container ships will be required to plug in





Shore electricity for “K” Line container ships beginning October 2008; for BP oil tankers beginning June 2009

# Advancing technology

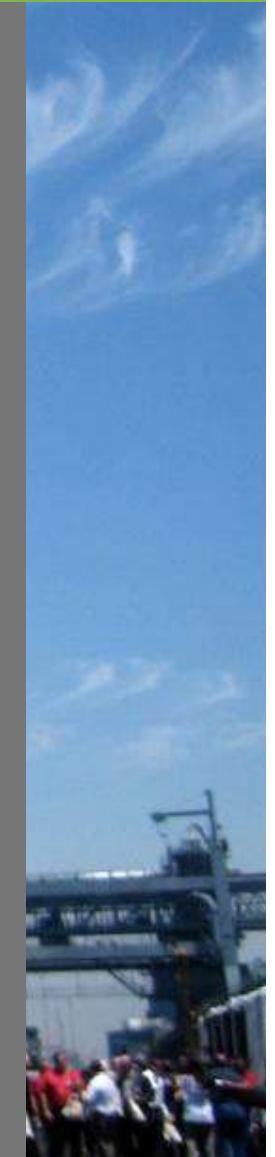


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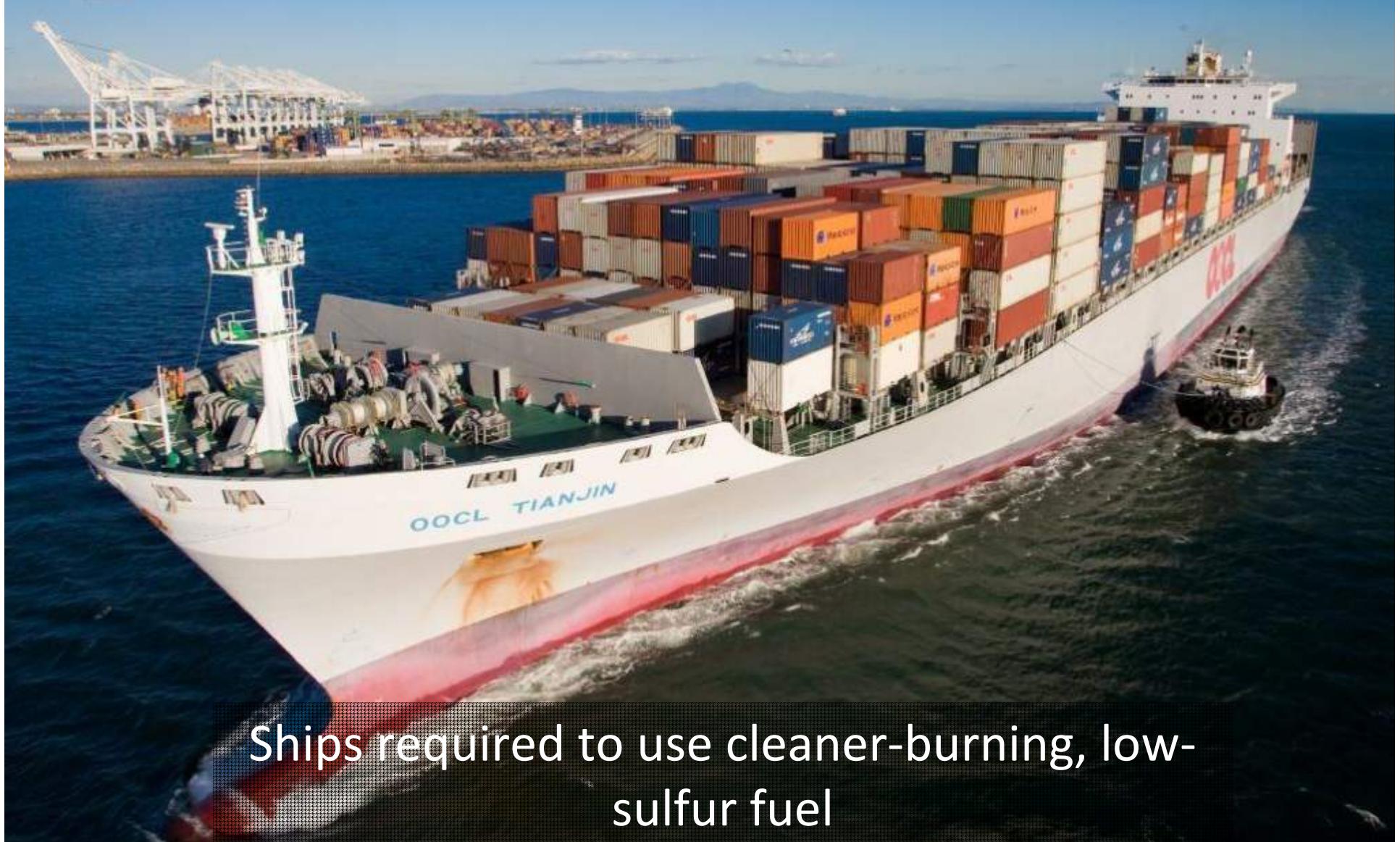
For ships that call irregularly: “sock on a stack”

# ‘Sock on a stack’ technology



- Many ships call too irregularly to retrofit for plug-in power
- With “sock on a stack,” a bonnet is lifted by crane onto a ship’s smokestack
- Scrubber, like that used in factories, cleans the pollution and releases fresh air

# Cleaner fuels



Ships required to use cleaner-burning, low-sulfur fuel

# Clean Trucks Program



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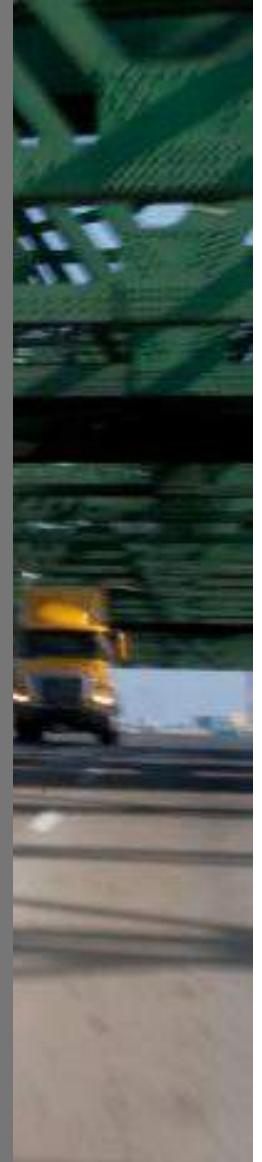
Ban on old trucks, so only clean trucks serve the Port,  
reducing truck pollution 80% by 2012

# Clean Trucks Program



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- 1988 and older trucks banned in 2008
- 1993 and older trucks banned beginning 2010
- 2006 and older trucks banned beginning 2012
- Already, more than half of cargo containers moved by clean trucks



# Clean locomotives



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Pacific Harbor Lines replaced all of its locomotives with less-polluting locomotives

# Greenhouse gas initiatives



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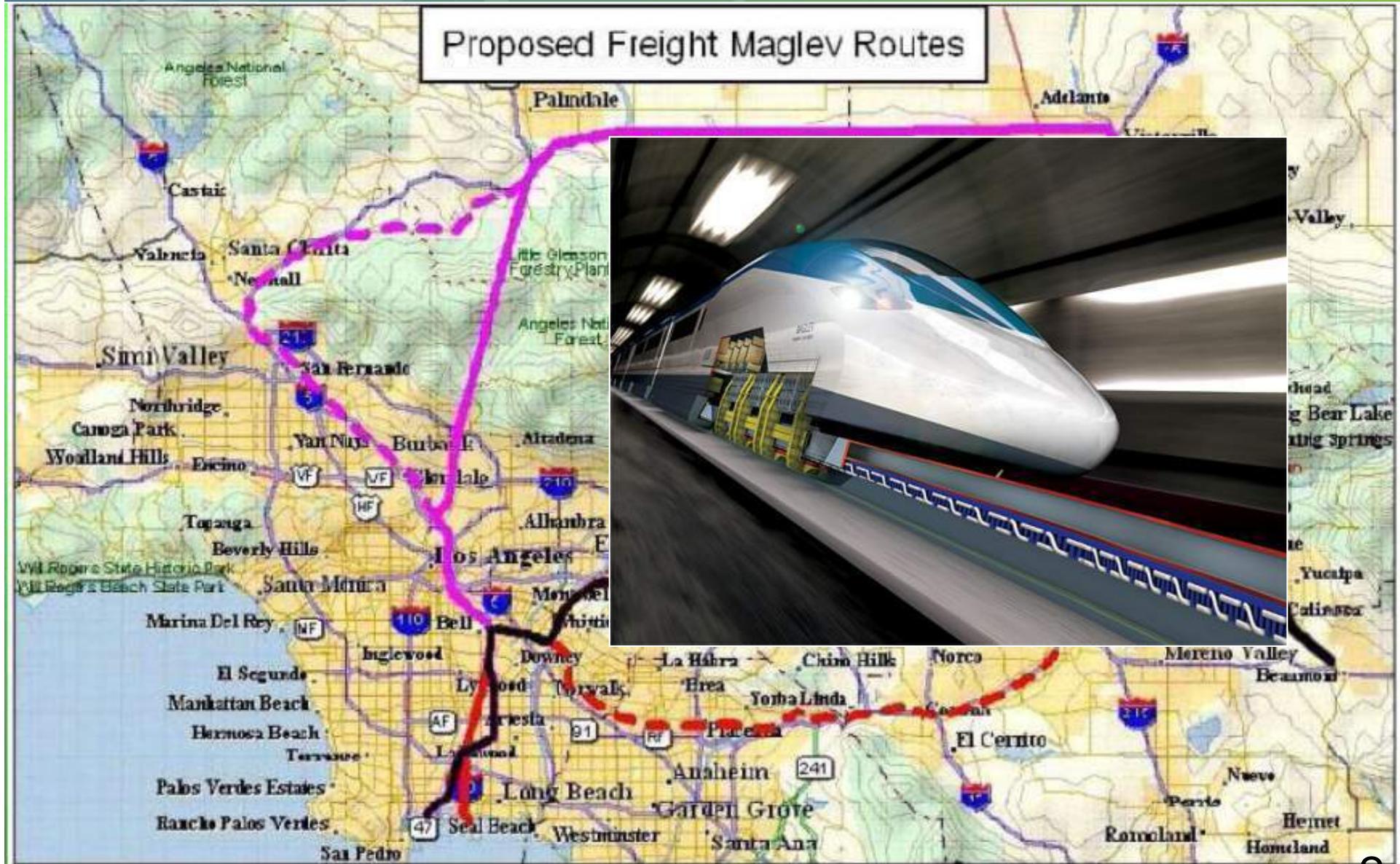
NYK Lines testing solar panels on a ship carrying  
Toyota vehicles to Long Beach

# What next?



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Proposed Freight Maglev Routes



# How we can grow



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**Weekly vessel calls  
from East Asia to U.S. West Coast**

(1 line = 2 calls)

PRINCE RUPERT, 2

VANCOUVER, 16

SEATTLE-TACOMA, 16

LONG BEACH/SAN PEDRO BAY, 40

Providing the best facilities for big ships, more trains

# Big ships



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Long Beach can accommodate the  
world's largest container ships

# Best rail connections



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BNSF and UP Intermodal Traffic Density Maps

Source: Company Websites, Norbridge industry knowledge

# Investing in the future



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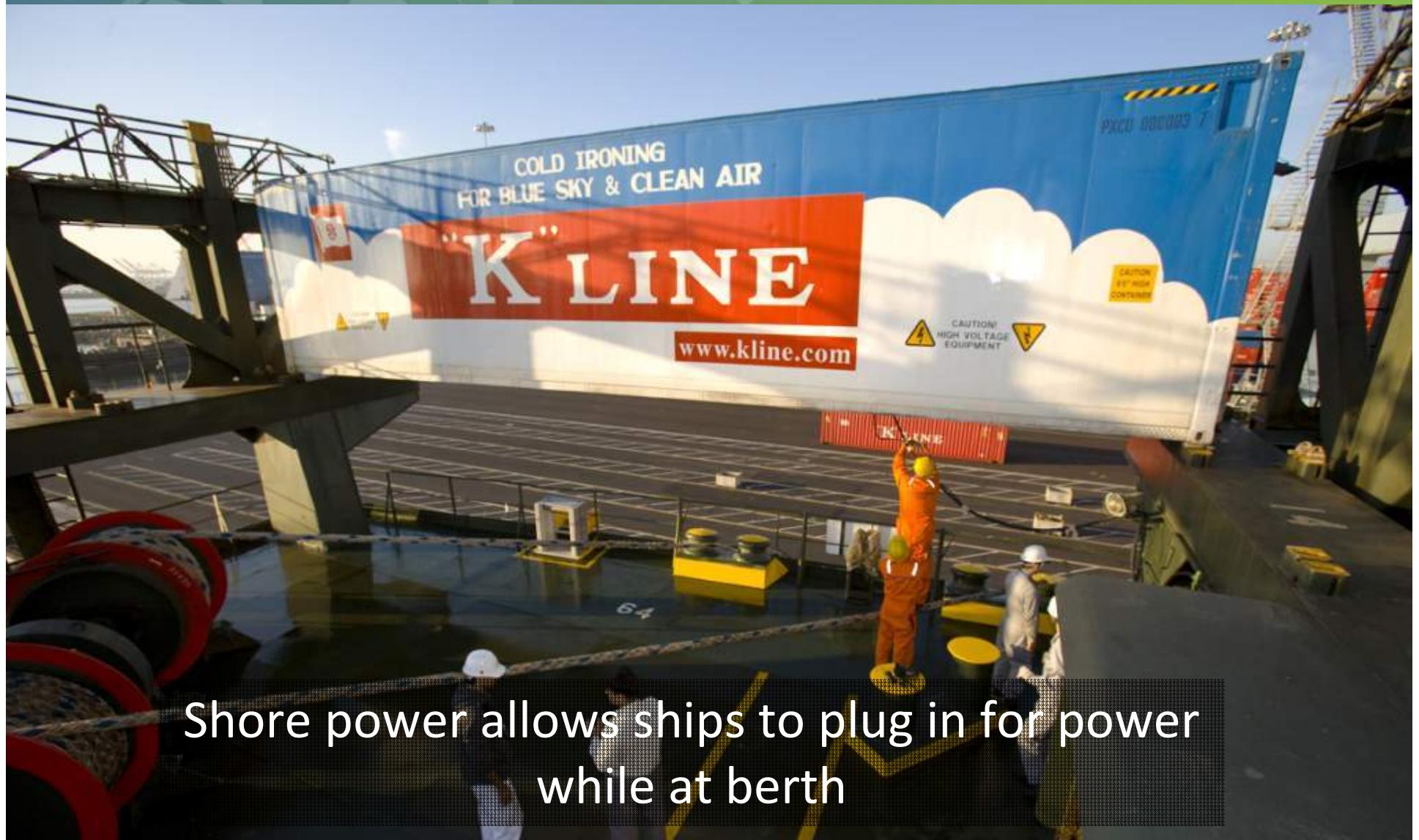


\$55 million admin building next phase of  
\$800 million terminal redevelopment

# Plugging in for electricity



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Shore power allows ships to plug in for power while at berth

# Middle Harbor redevelopment



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\$750 million project to improve efficiency, cut pollution 50%, create 14,000 new jobs

# Pier S terminal project



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\$650 million redevelopment of former oil field  
would create 35,000 new jobs

# Desmond Bridge replacement



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\$1.1 billion bridge would ease congestion,  
improve traffic safety

# Investing to grow green



- We need to protect the environment so we can maintain public support for trade growth
- We need to upgrade our facilities to remain competitive

# Thank you



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