



Port of
LONG BEACH
The Green Port

Port Sustainability POLB Case Study

AAPA MTMT 2013

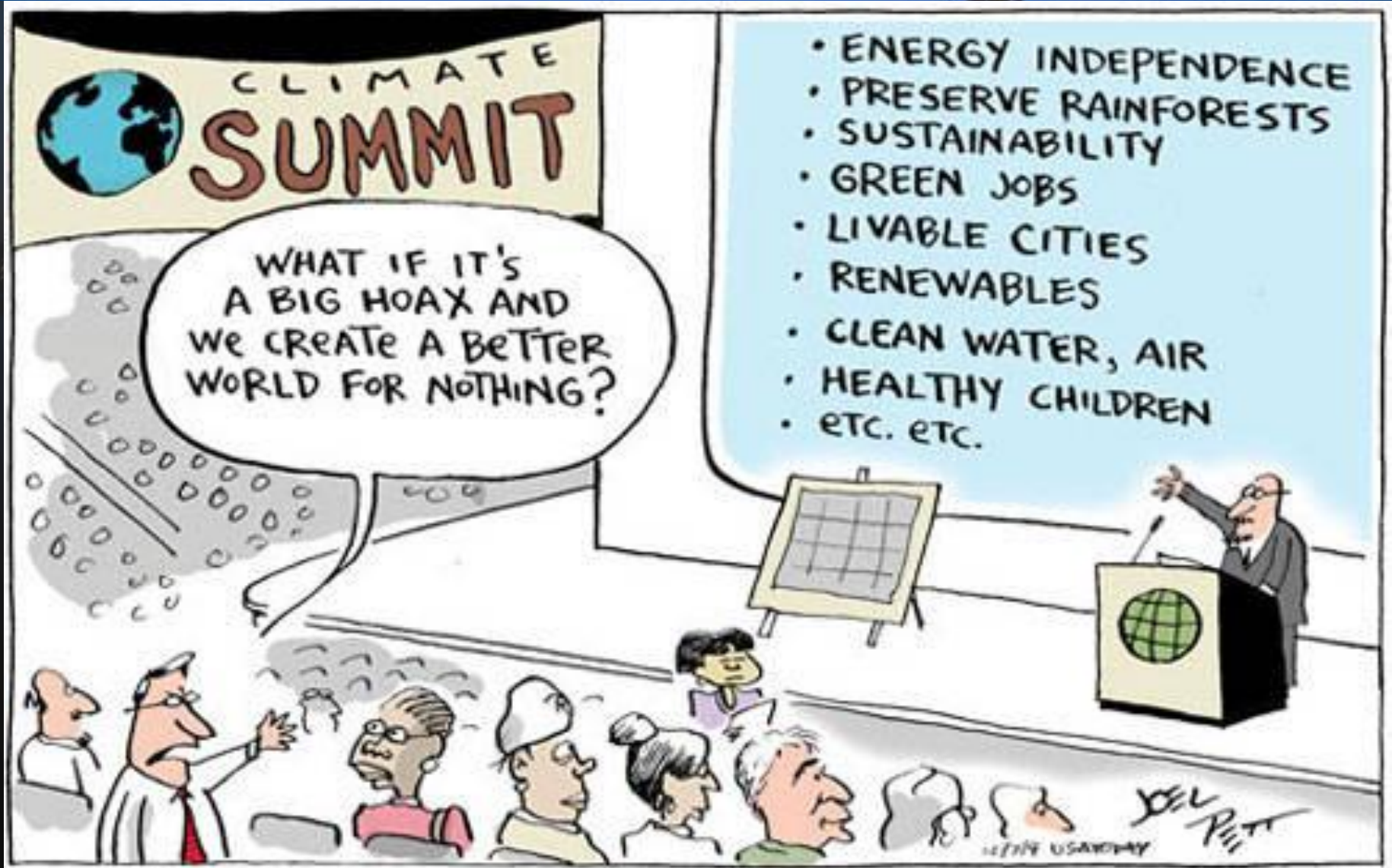
Rick Cameron

Acting Managing Director of Environmental
Affairs and Planning

Reality?



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...THEY HAD TO CUT DOWN ALL THE TREES TO PRINT ALL THE BAILOUT MONEY NEEDED TO CREATE GREEN JOBS TO SAVE THE ENVIRONMENT...



Characteristics of a Sustainable Port



- Steward of natural resources (wildlife, air, water, soil)
- Sound finances (capital, investment, bond rating)
- Socially responsible (community, customers, employees, electeds)

Sustainability = Triple Bottom Line



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Social
Responsibility



Environmental
Responsibility



Financial
Responsibility

Why did the Port go “green”?



The Port can only move ahead with its improvement projects with the support of the operators, community and political leaders



- Protect the community from harmful effects of port operations
- Distinguish Port as leader in environmental stewardship and compliance
- Promote sustainability
- Employ best available technology to minimize environmental impacts
- Engage and educate the community



Strategic Benefits of Strong Environmental Programs



- Builds community and political support; aids project approvals
- Keeps Port ahead of regulations, requirements
- Enables terminal development and modernization; business growth

Environmental Responsibility



- Green leases
- Soil, sediment, groundwater cleanup
- Biological inventories
- Clean Air Action Plan (CAAP)
- Shore-side electricity
- “Green” purchasing
- Water Resources Action Plan (WRAP)
- Technology Advancement
- Solar projects
- Green Ship Vessel Incentive

Financial Responsibility



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- Strong Port Revenue
- Sound Leasing Policies (ROI)
- Fiscal Strength (e.g. Bond rating)
- Marine terminal upgrades
- Jobs
- Use of State and Federal funds for infrastructure
- Recycling
- Energy conservation
- LEED buildings



Community Responsibility



- Job creation
- Air quality improvement
- Traffic management
- Public outreach/education
- Communication
- Transparency
- Small business inclusion
- Urban forest

Mitigation Grant Programs



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Schools & Youth
Facilities



Health Care &
Senior Facilities



Greenhouse Gases

Challenges and Choices

- Return on investment (revenue vs. non-revenue)
- Today's world-Loss of federal, state and local funding
- Use of fees
- Staying competitive
- Environmental responsibility

Questions to Ponder.....

- Level playing field
- National or international requirements for environmental programs
- Capital investment for non-revenue producing roadway or bridge projects
- “Doing the right thing” with environmental investments amid greater economic and competitive pressures

Climate Change Impacts



Climate Change Adaptation and Coastal Resiliency Strategic Plan (CRS Plan)

CRS Plan Benefits

Ensure resiliency
Managing risks
Continuity in operations
Benefit to coastal
planners and port
authorities
Sustainable construction
practices
Community
outreach/education



Water Resources Action Plan

- Developed with, LARWQCB, USEPA, and Stakeholders
- Documents the Current Conditions of the Harbors
- Documents and Builds Upon Current Port Water and Sediment Quality Programs and Initiatives
- Framework for Port Permits and TMDL Implementation

POLB Litter Control Program



WRAP Control Measure LU - 5
Aimed at reducing litter at the
Port

Three tier program envisioned

- Tier I: Education and outreach campaign
- Tier II: Enhanced land based controls
- Tier III: Enhanced water based controls

Future Challenges



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TMDLs

Final TMDL Adopted in May 2011

NPDES Permits

Development of New Permits

Coordination with Agency Staff on the Preferred Framework

Big Ship Ready



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Largest to Call in North America
The 13,800-TEU MSC Beatrice came in Sept. 2012 –too wide to pass through the expanded Panama Canal.



Comprehensive Energy Program



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Moving Towards Resiliency

An Assessment of the
Costs and Benefits of
Energy Security
Investments for the
San Pedro Bay Ports

UCLA Luskin School of Public Affairs

**Luskin
Center**
FOR INNOVATION

In Collaboration with



With Support from



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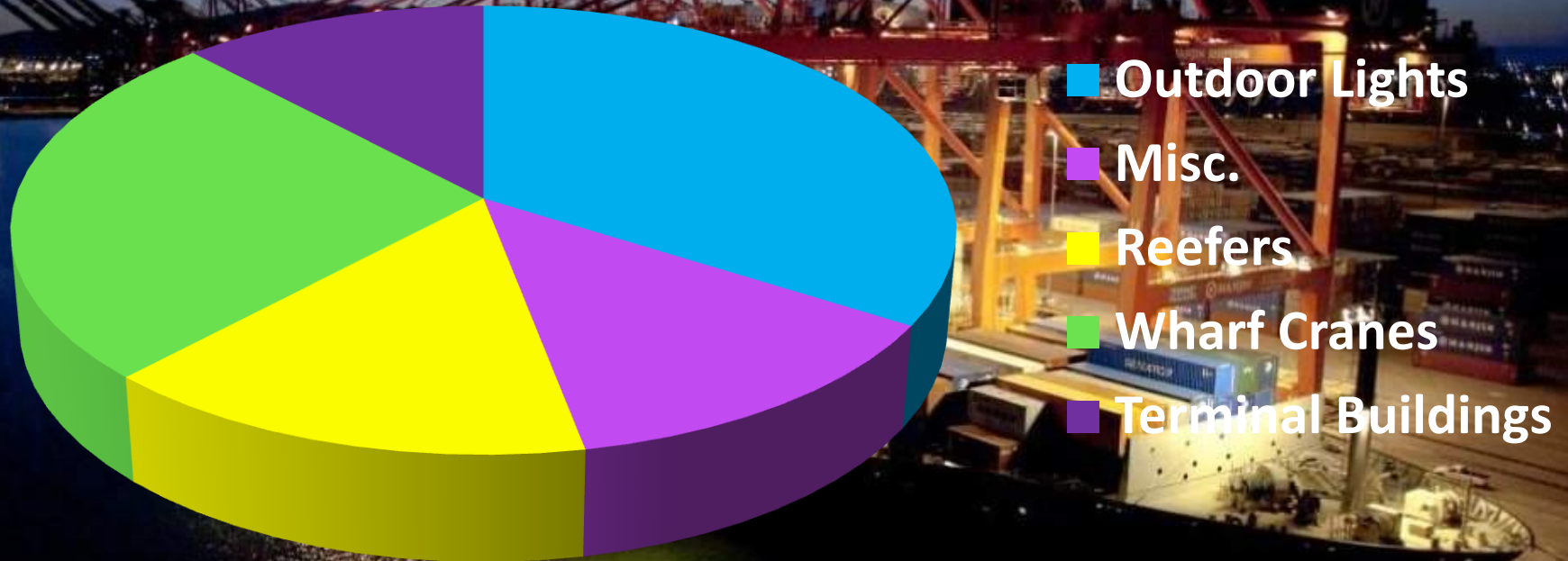


Projected Increase in Power Usage



Lack of Uniformity in End Use Applications

Sources of Electricity Consumption in Container Terminal



Sharing Our Initiatives



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We Urge Our Partners to Embed a Culture of Sustainability in Their Operations, so They Can Be More Prosperous, Sustainable and Greener.

- Development of a New Port Energy Program
- Comprehensive Ballast Water Programs
- Comprehensive Sediment Management Programs
- Continue to Pursue Zero Emissions Demonstration Project Opportunities
- Continue CAAP Implementation
 - Green Ship program
 - Cold Ironing/Shore –side Power Implementation
 - CTP Implementation

Last Thought

“Even if you are on the right track, you will get run over if you just sit there.”
Will Rogers