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The Premier Energy Training Workshop
and Trade Show for Federal Agencies

A River of Energy Solutions

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**Sustainable Operations/Climate Change Coordinator
USFS Region 5 Regional Office (Vallejo, CA)**

Tuesday, August 9th, 2011

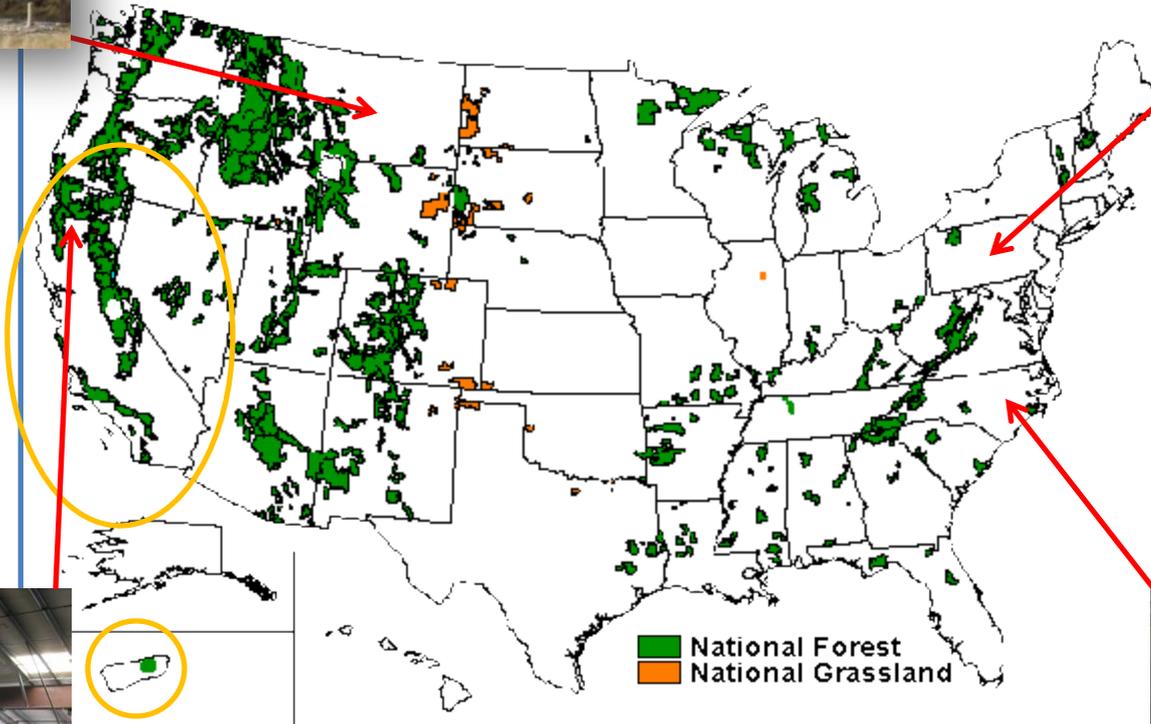
The Forest Service – Caring for the Land and Serving the People



Beaverhead-Deerlodge NF



Northeastern Area Office



Shasta-Trinity NF

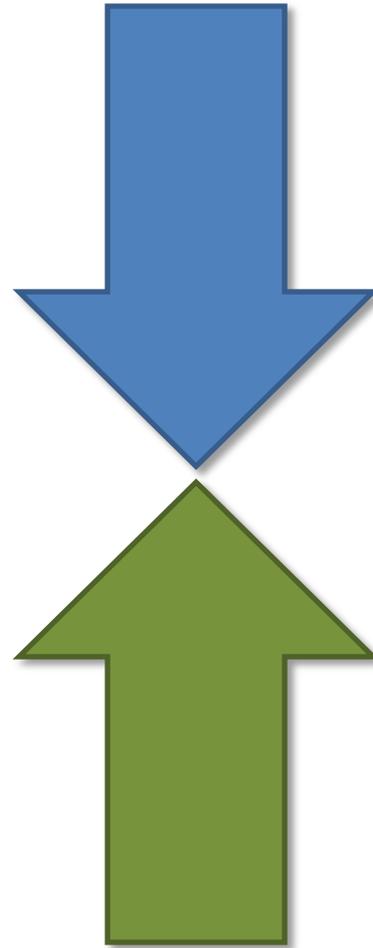
Southern Research Station



Creating a Connected System to Reduce Consumption

U.S. Government executive direction, policy & metrics to reduce consumption

National tools to measure & monitor progress



Empower local champions and Green Teams to provide place-based solutions

Track meaningful activities, share stories and identify implementation challenges

USFS Climate Change Performance Scorecard: Integrating Sustainable Operations in the Agency's Climate Change Response

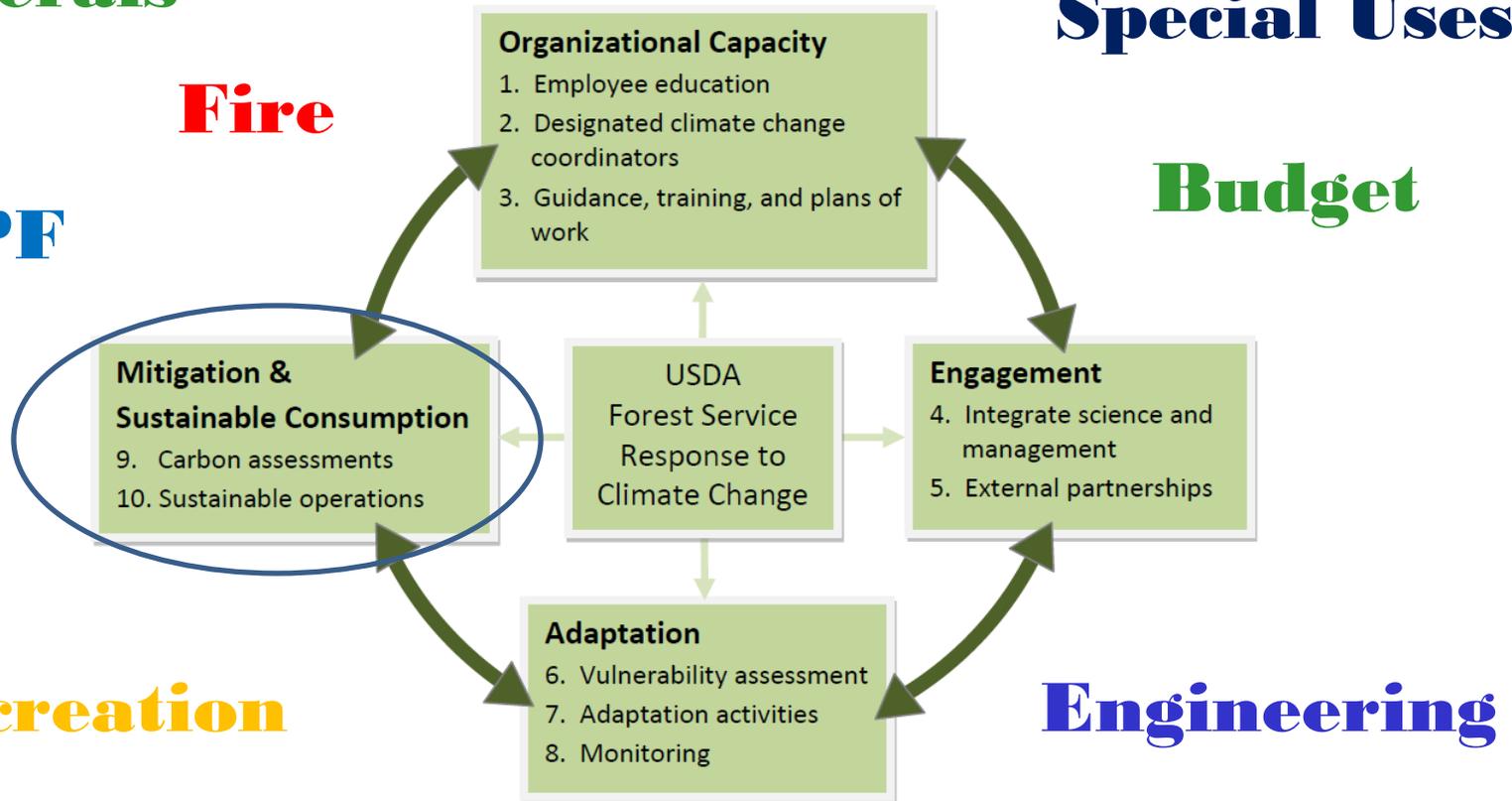
Minerals

Special Uses

Fire

Budget

S&PF



Recreation

Engineering

Public Affairs



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Sustainability @ Procter & Gamble

Len Sauers

Vice President, Global Sustainability

Consumers and Environmental Sustainability

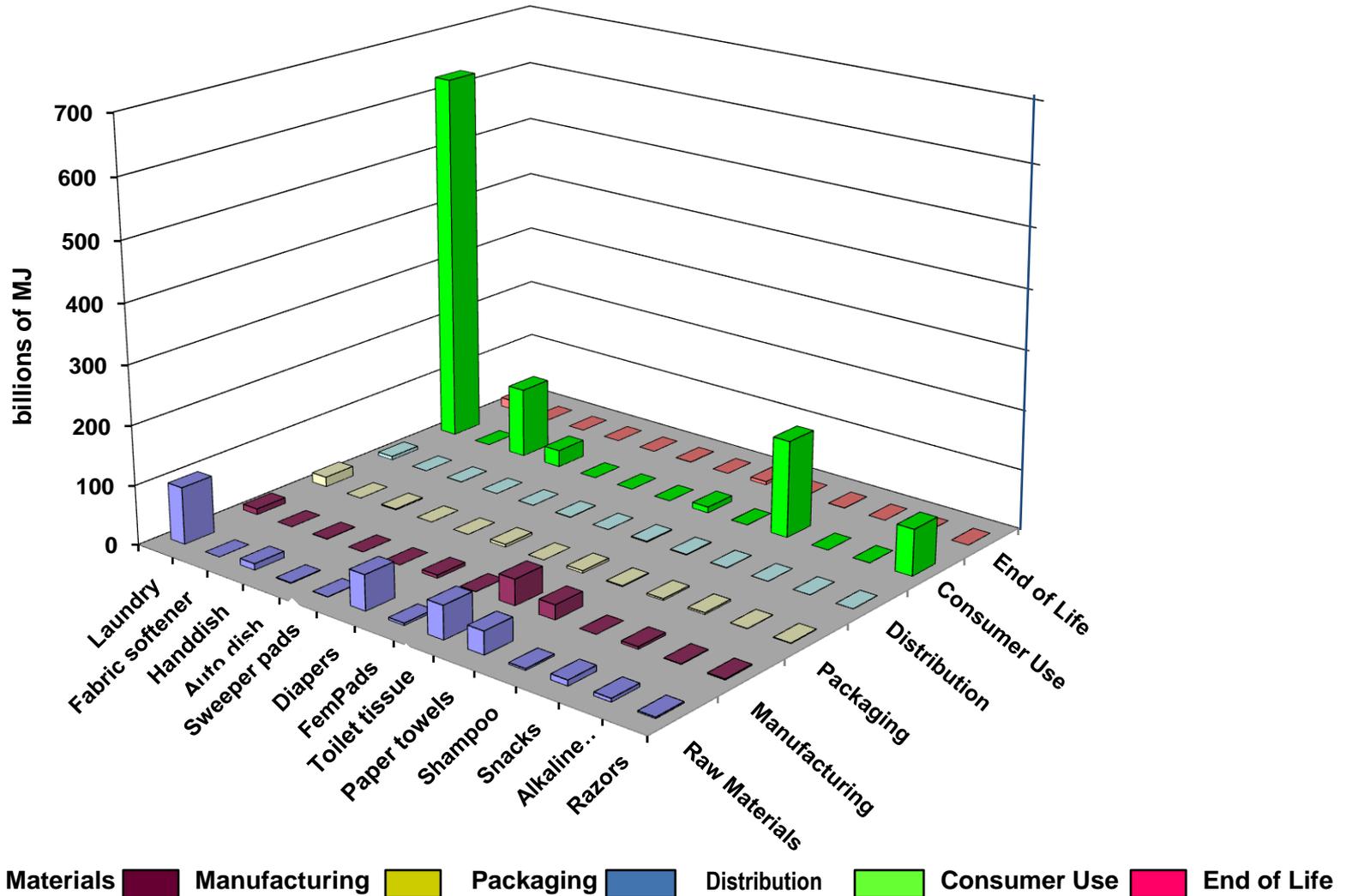
Consumer Types

- Niche - ~15% - highly engaged, will accept trade-offs in cost and performance
- Sustainable Mainstream - ~75% - eco-aware, but will not accept trade-offs in cost and performance
- Basic - 10% - indifferent, value conscience

Data have been stable over time and consistent worldwide (US, Canada, Brazil, Europe, Japan, Indonesia, etc.).

To make a meaningful difference, you must target the mainstream consumer.

P&G Energy Footprint



Conserving Resources - Energy



If everyone in the US switched to cold water for machine laundry, the energy savings would be 33 million megawatt-hours, which is equivalent to the energy use of 4.4 million US households (~4%).



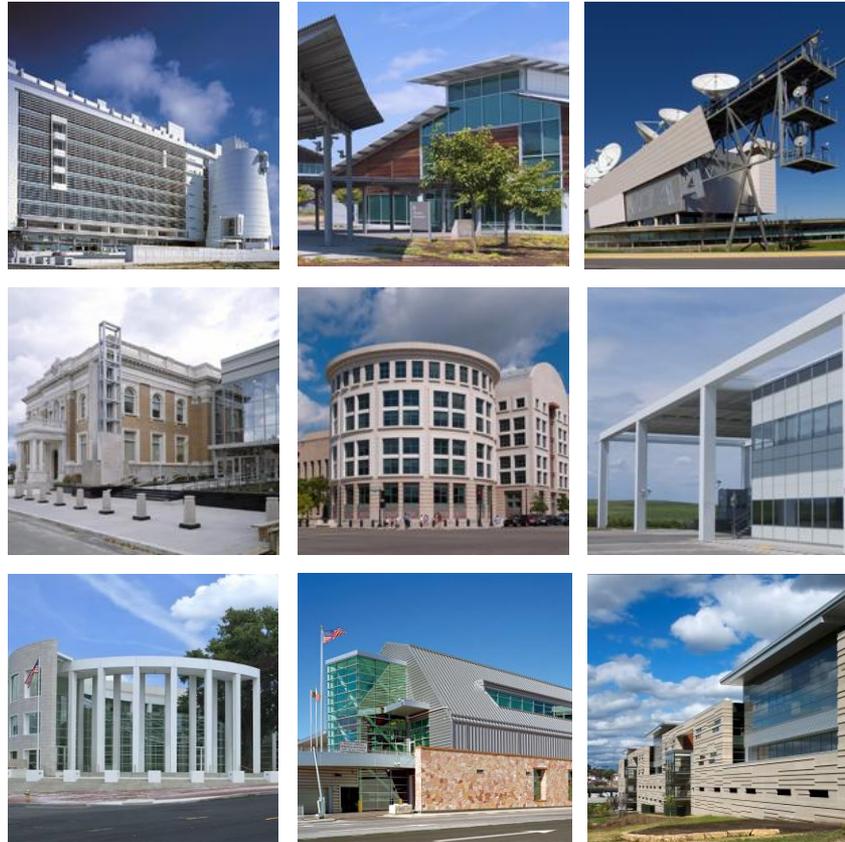
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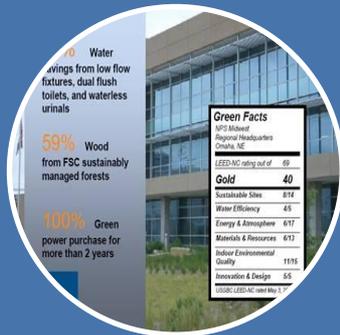
Sustainability and Greenhouse Gas Emissions: Case Studies and Lessons Learned on Sustainability Plans and GHG Inventories

Eleni Reed, GSA/PBS Chief Greening Officer

GSA Public Building Service



Sustainability Practices Across Real Estate Lifecycle



Leasing



Siting of Facilities



Design & Construction



Operations & Maintenance





Sustainability

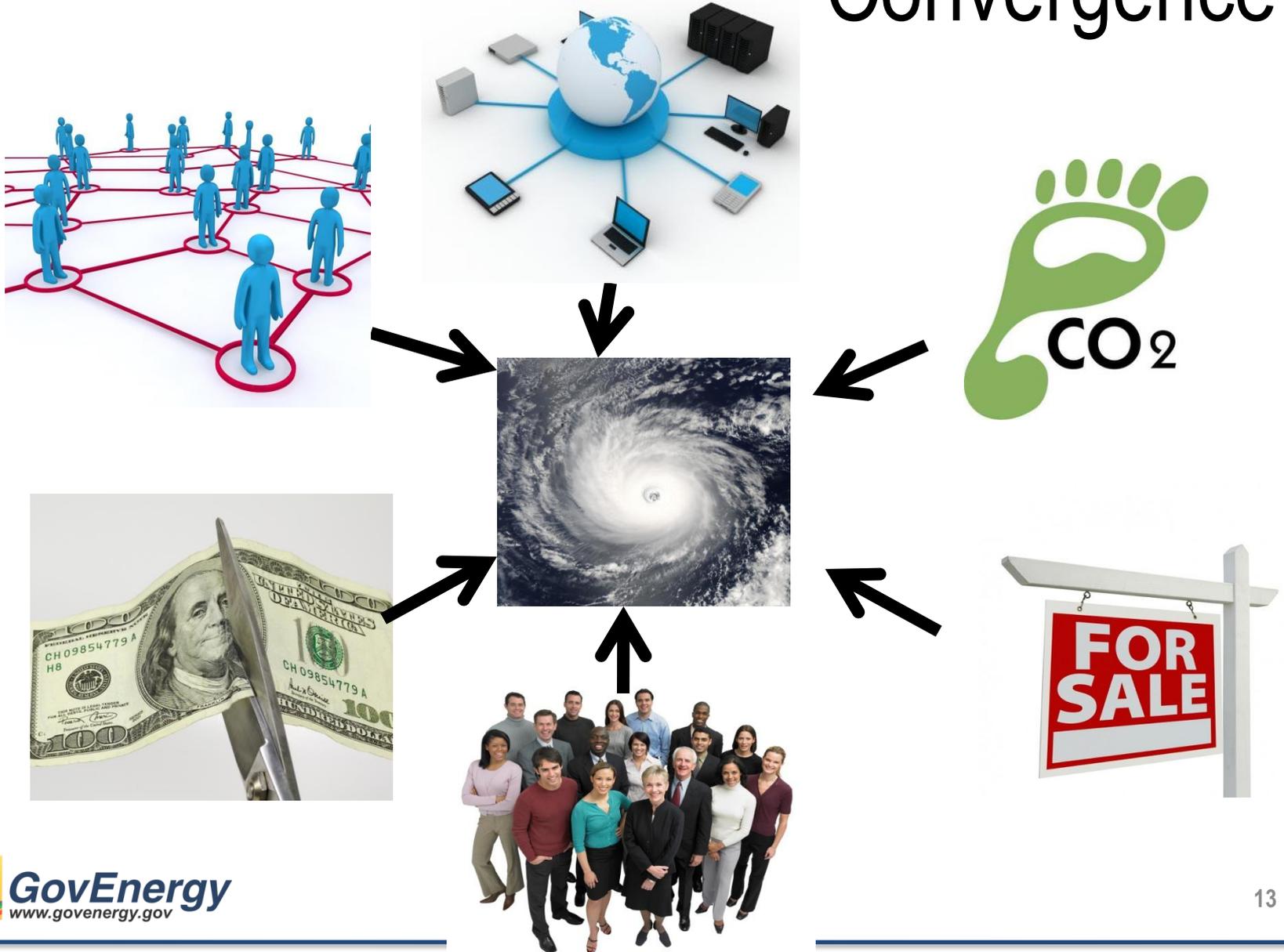
- GSA Vision
 - Zero Environmental Footprint



- Framework
 - Strategic Sustainability Performance Plan

U.S. General Services Administration	FY2010 OMB Scorecard on Sustainability/Energy
Scope 1&2 GHG Emission Reduction Target Submitted comprehensive inventory as OMB baseline for Scope 1&2 GHG Reduction Target of 25.0% by 2007	 Score: GREEN
Scope 3 GHG Emission Reduction Target Submitted comprehensive inventory as OMB baseline for Scope 3 GHG Reduction Target of 44% by 2007	 Score: GREEN
Reduction in Energy Intensity Reduction in energy intensity in goal-object facilities compared with 2005: 16.1% and on track for 30% by 2010	 Score: GREEN
Use of Renewable Energy Use of renewable energy as a percent of facility electricity use: Total of 10.2% from renewable electricity sources including at least 0.2% from new sources (thermal, mechanical, or electric)	 Score: GREEN
Reduction in Potable Water Intensity Reduction in potable water intensity compared with 2007: 8.2% and on track for 20% in 2010	 Score: GREEN
Reduction in Fleet Petroleum Use Reduction in fleet petroleum use compared to 2005: 22.0% and on track for 20% by 2010	 Score: GREEN
Green Buildings Sustainable green buildings: 5.18% of buildings sustainable (1.29% GSE of inventory sustainable)	 Score: GREEN

Convergence





Innovation

- Alternative workplace strategies
- Building performance
- Technology adoption





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Michel Gelobter
Chief Green Officer
Hara

Tuesday, August 9th, 2011

About Hara

Deployed
in 100+
countries



City of Philadelphia
LIFE • LIBERTY • AND YOU™

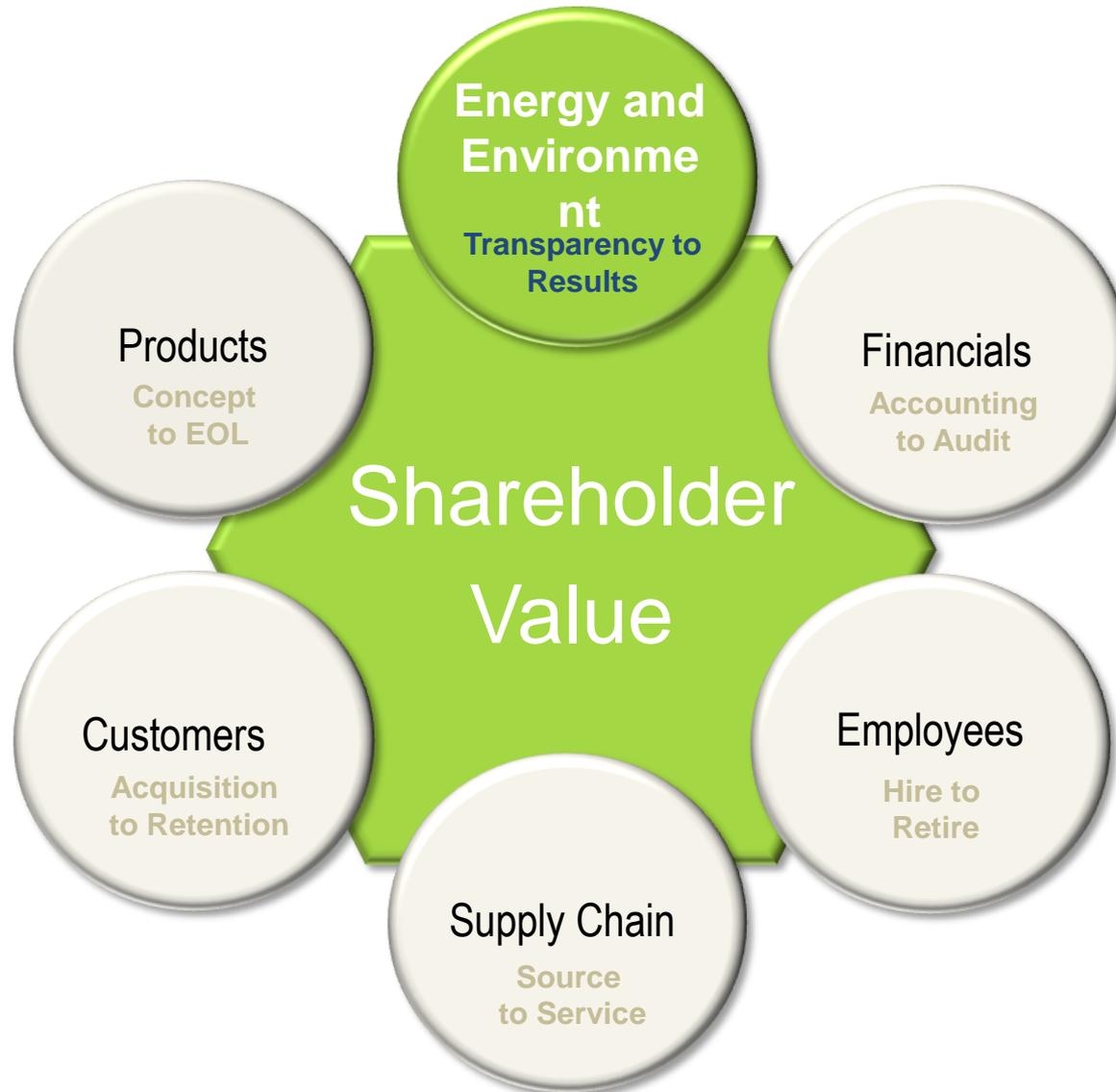


هيئة مياه وكهرباء أبوظبي
Abu Dhabi Water & Electricity Authority



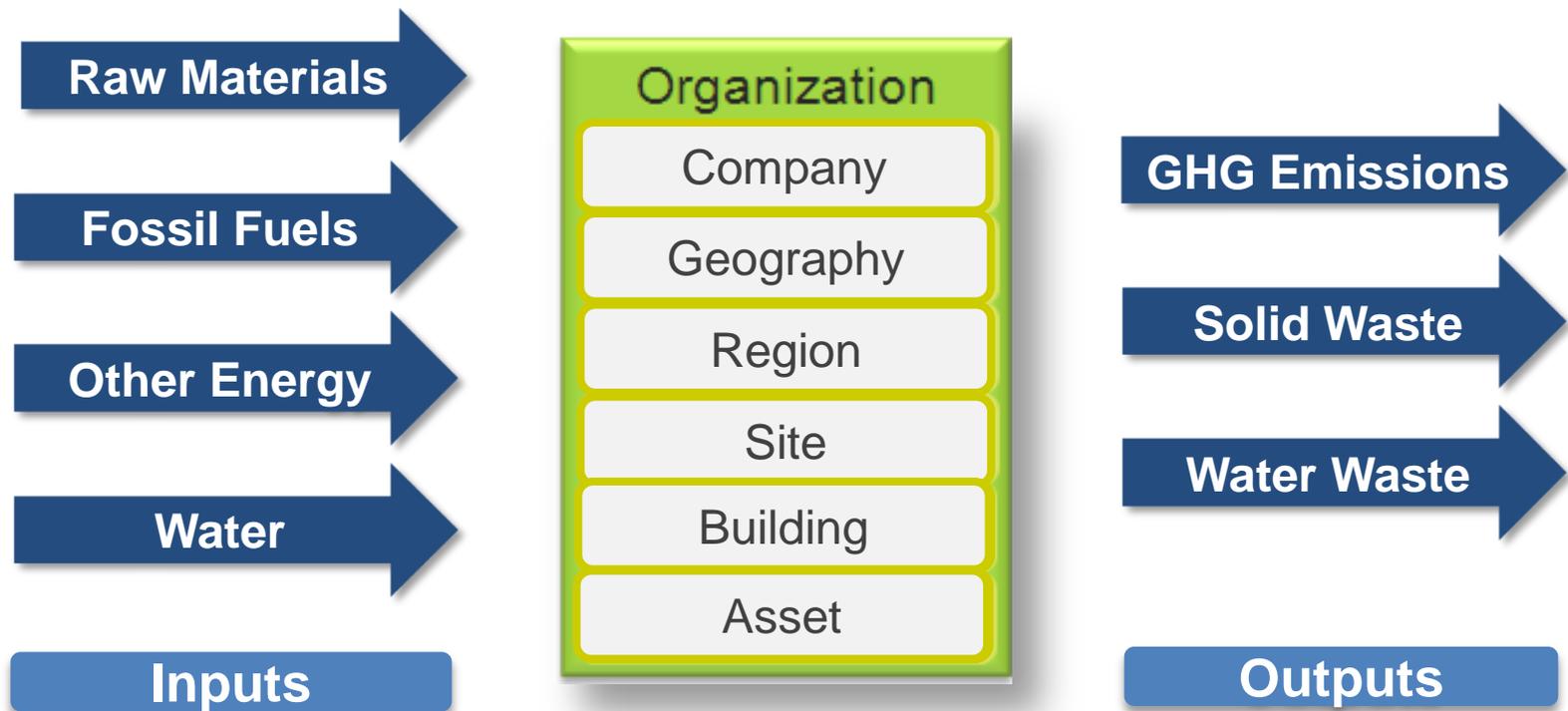
Hara helps organizations **grow and profit** while optimizing natural resource consumption and minimizing environmental impact.

Next Strategic Driver of Business Transformation



What We Do - Organizational Metabolism

Hara enables organizations to **manage and optimize their organizational metabolism** – the collective resources consumed and resulting outputs across an organization and its value chain – including energy, water, waste and carbon.





Search for name, type, owner

Woodside Company

Dashboard Details Data Verification Plan and Act

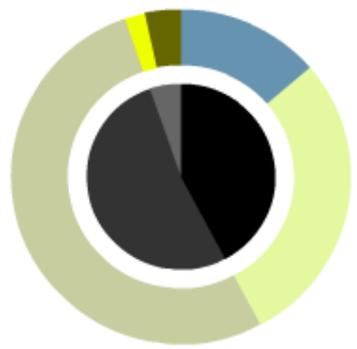
Overview Dashboard Aggregated Activities and Outputs

Organization 2010 >

Overview Dashboard

Company Period 2010 Output Type Energy

Output Contribution [Energy in GJ] - ...

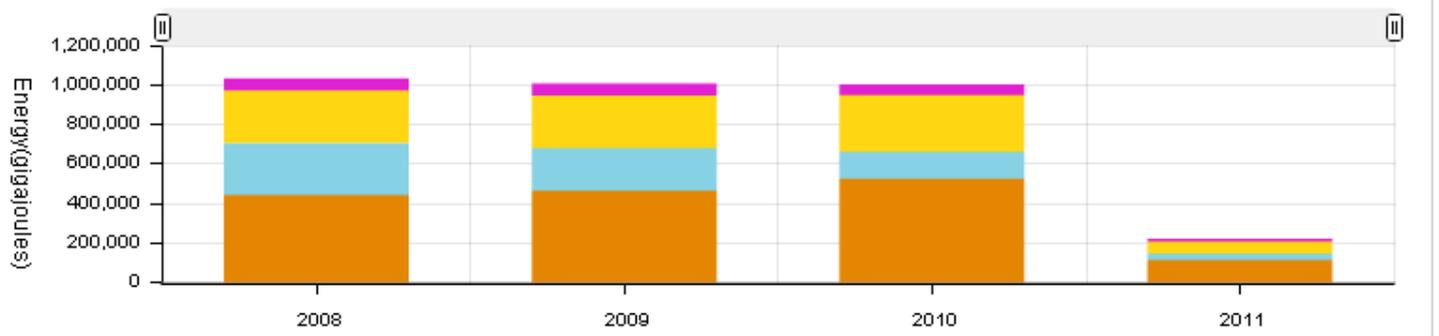


Organizational Ranking - Show All

Name	Energy(gigajoules)
America (North and South)	357020.67
Asia Australia	312101.05
Europe	278505.63
Supply Chain - Manufacturing	53825.37

- ▼ Woodside
 - ▼ America (North and South)
 - ▼ America (USA)
 - ▶ Boston
 - ▶ Chicago
 - ▶ Los Angeles
 - ▶ Phoenix
 - ▶ Sunnyvale
 - ▶ Brazil
 - ▶ Canada
 - ▶ Mexico
 - ▶ Asia Australia
 - ▶ Europe
 - ▶ Supply Chain - Distribution
 - ▶ Supply Chain - Manufacturing

Output Trend [Energy in GJ] - Category - Company Periods



Overview Dashboard: Provides executive views into current and historical performance of environmental, energy or other metrics including activity, benchmarking and forecasting.



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U.S. Coast Guard Sustainability

Captain John Hickey, PE, LEED AP

Energy Efficiency



ESPC's
UESC's
Appropriations

Audits
RCx

Lighting
HVAC
GSHP's
Boilers
Water
Vending
VFD's
Vessels

19% Savings

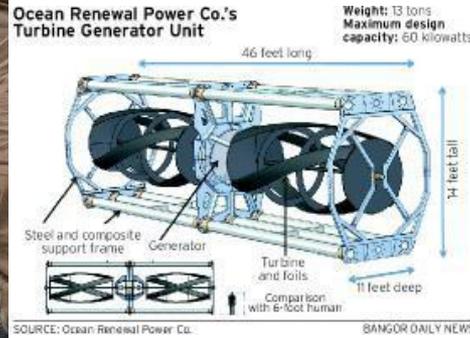


Renewable Energy Portfolio



SDHW
Solar PV
Landfill Gas
Small Wind
Tidal
Biomass
9.5%

Ocean Renewal Power Co.'s
Turbine Generator Unit



High Performance Buildings



USGBC REGISTERED LEED-NC, EBOM & H Projects (GIM 3)

