



FEDERAL UTILITY PARTNERSHIP WORKING GROUP SEMINAR

November 15-16, 2017
Ontario, California

Agency Perspectives on Resilience: DHS Resilience Framework

Hosted by:





DHS Mission



*With honor and integrity, we will
safeguard the American people, our
homeland, and our values.*



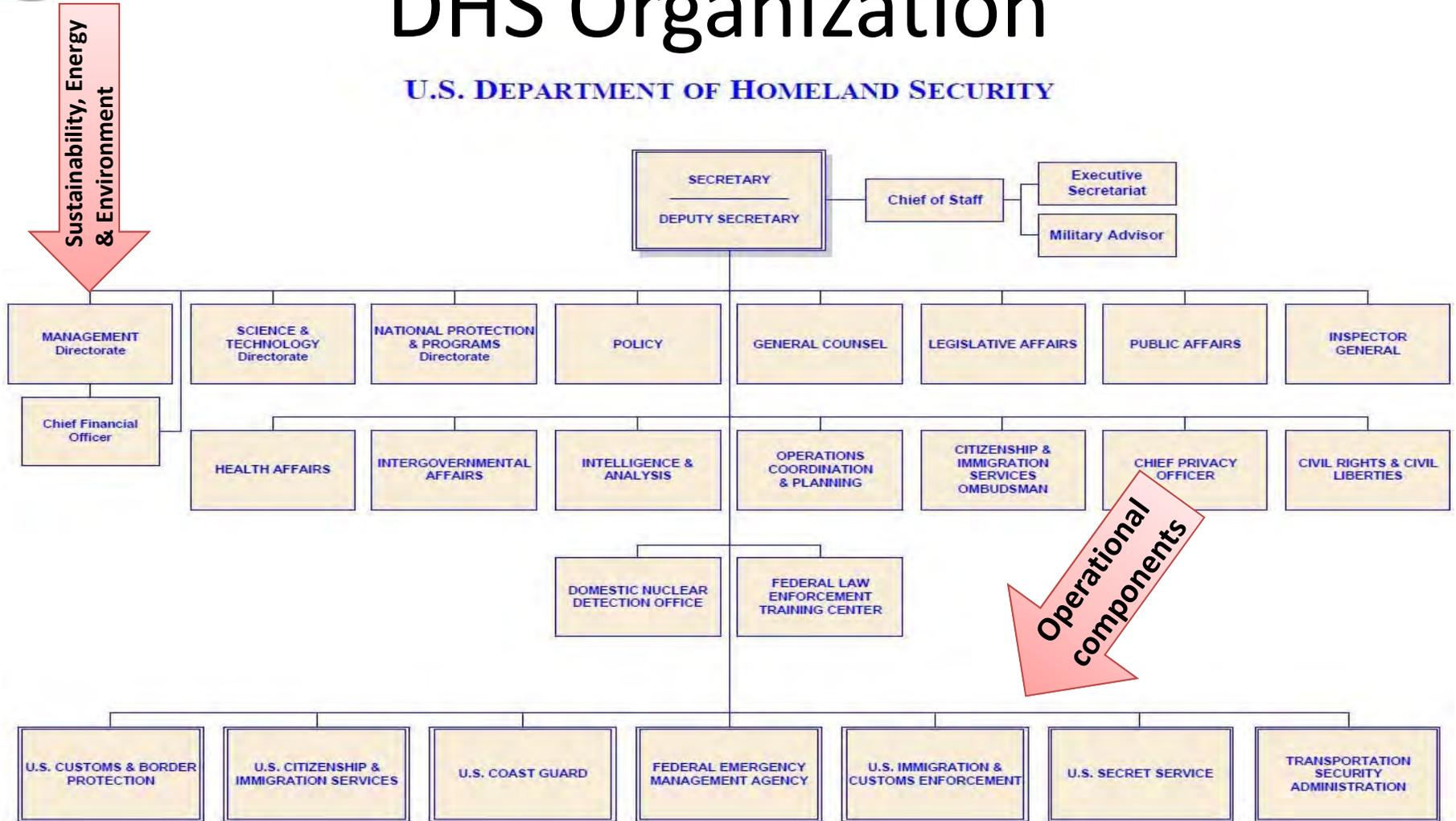
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DHS Organization

U.S. DEPARTMENT OF HOMELAND SECURITY





Getting to Know DHS

People: 230,000

Vehicles: 49,174
(10,300 = alternative fuel vehicles;
280 = hybrid electric)

Number of Buildings: 14,100

Gross Square Feet of Buildings: 91.5
million

Environmental Liabilities: \$1028
million

Energy Costs: \$400 Million

Reduced Energy & Water Use
(Cost Avoidance) in 2016:
\$23.4M/\$2.1M

ESPC/UESCs to date:
\$130 Million



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Policy

Policy Documents

- Sustainability Directive Policy memorandum signed by Secretary (Feb 2011)
- Environmental Policy memorandum signed by Under Secretary for Management (Oct 2008)
- Financial Liabilities Policy memorandum signed by CFO and CRSO (April 2012)
- EISA 438 Implementation Memorandum (Sep 2011)

Directives

- 017-01 Historic Preservation in Asset Management and Operations (Mar 2008)
- **020-01 Energy and Water Management Directive (January 2016)**
- 023-01 Environmental Planning Program (Revision ECD: July 2014)
- 023-02 Environmental Management (May 2013)
- 025-01 Sustainable Practices for Environmental, Energy and Transportation Management (Apr 2012)

Manuals

- 017-1 Historic Preservation in Asset Management and Operations Manual
- 023-1-001 Environmental Planning Program Manual
- 025-01 Sustainability Guidance Manual
- Environmental Management Manual
- Financial Liabilities Guidance Manual
- Sustainable Buildings Guidance Manual
- Environmental Compliance Audit Manual
- **Resilience Framework (in development now)**





DHS Resilience

- **DHS** has defined resilience as the ability to prepare for and recover from disruptions that impact mission assurance on our installations and campuses.
- **Presidential Policy Directive 21: Critical Infrastructure Security and Resilience (PPD-21)**, – states the Federal government has a responsibility to strengthen the security and resilience of its own critical infrastructure against both physical and cyber threats.



DHS Resilience Framework



WHEN you need it – **WHERE** you need it – **AS LONG AS** you need it

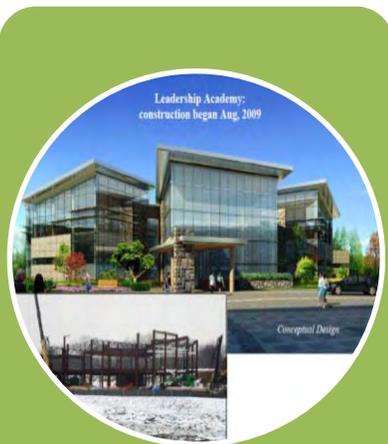
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Resilience Framework Intent

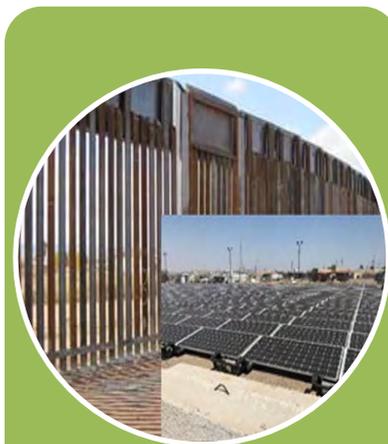
- To **develop a roadmap** for implementing resilience within DHS Component operations, specific to communication/IT, energy/power, infrastructure, transportation, and water
- To **establish metrics** for resilience performance
- To **monitor success and best practices** for resilience within DHS



Identify Requirements



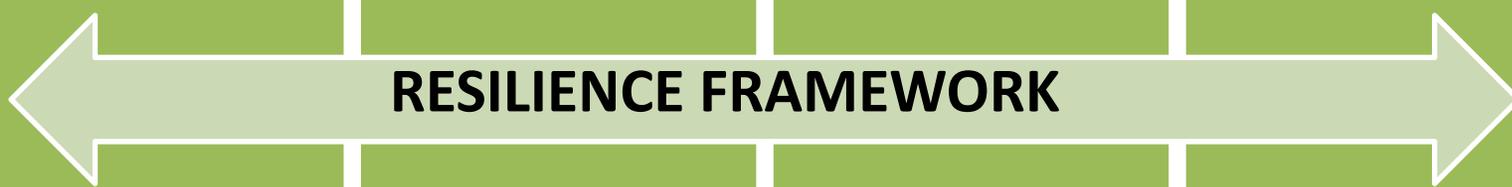
Assess Risks



Develop Solutions



Implement & Measure



RESILIENCE FRAMEWORK

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U.S. Coast Guard Resilience

Policy Statement

“We will infuse mission criticality, environmental impact and fiscal consequences into all Coast Guard decision making processes.”

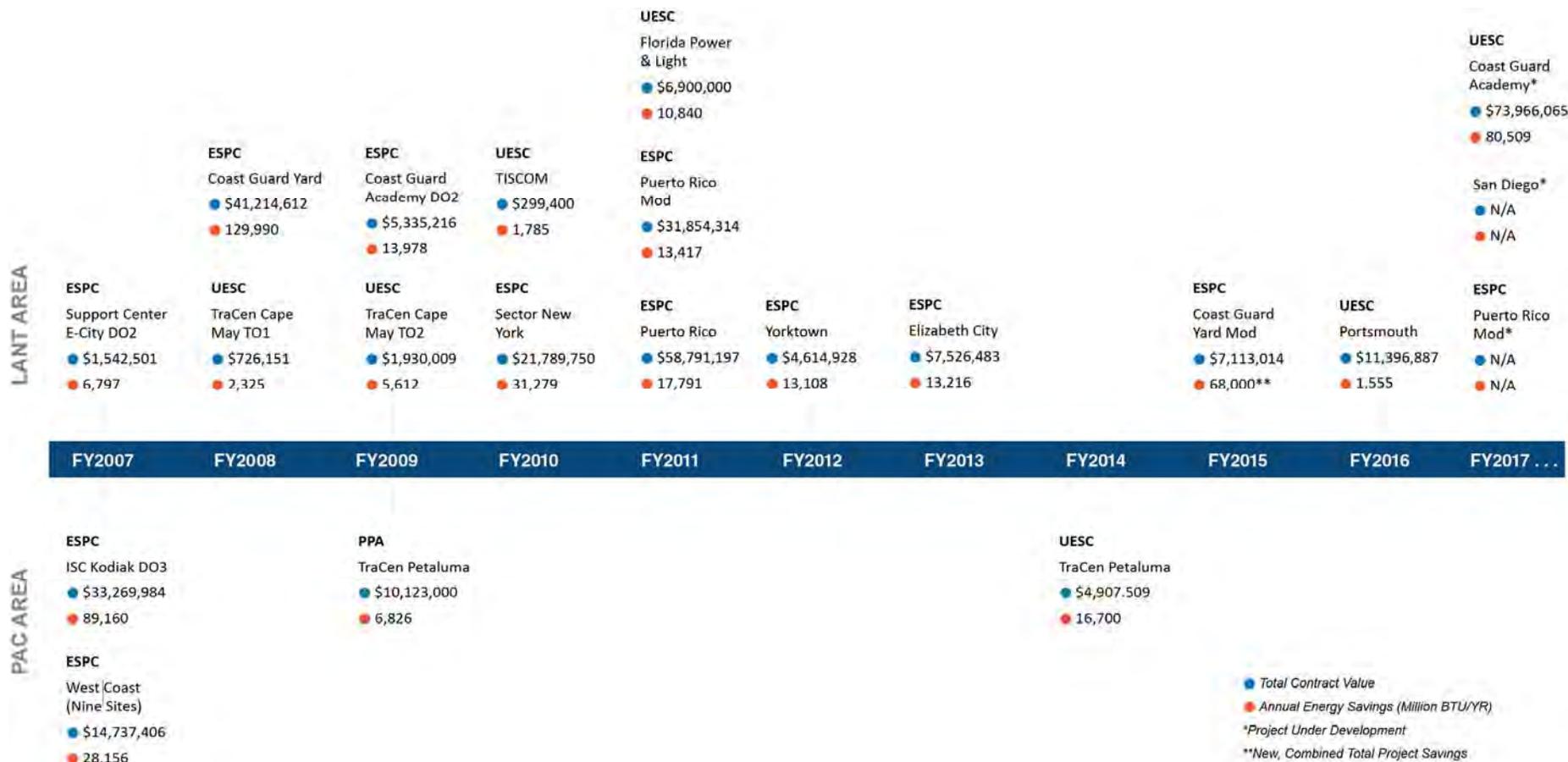
“Coast Guard personnel shall optimize energy and environmental management solutions with innovative techniques that maximize future flexibility and reduce cost.”

“I charge every Coast Guard member to incorporate sustainability into all mission areas. Our shared duty to protect our natural resources and operate resourcefully is essential to sustained mission excellence.”

Admiral Paul F. Zukunft, U.S. Coast Guard Commandant
Internet release is authorized.



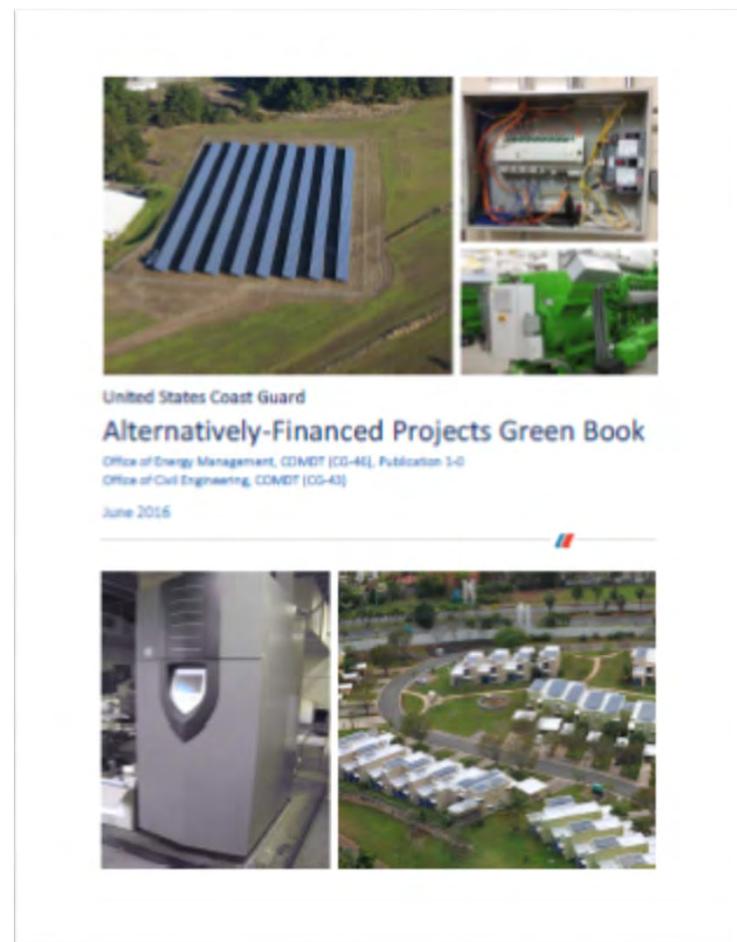
Alternatively-Financed Project Leader





Alternatively Financed Green Book

- Published in July 2016
- Incorporates lessons learned and field feedback
- Codified process for entire project lifecycle





Nine Natural Hazards Studied



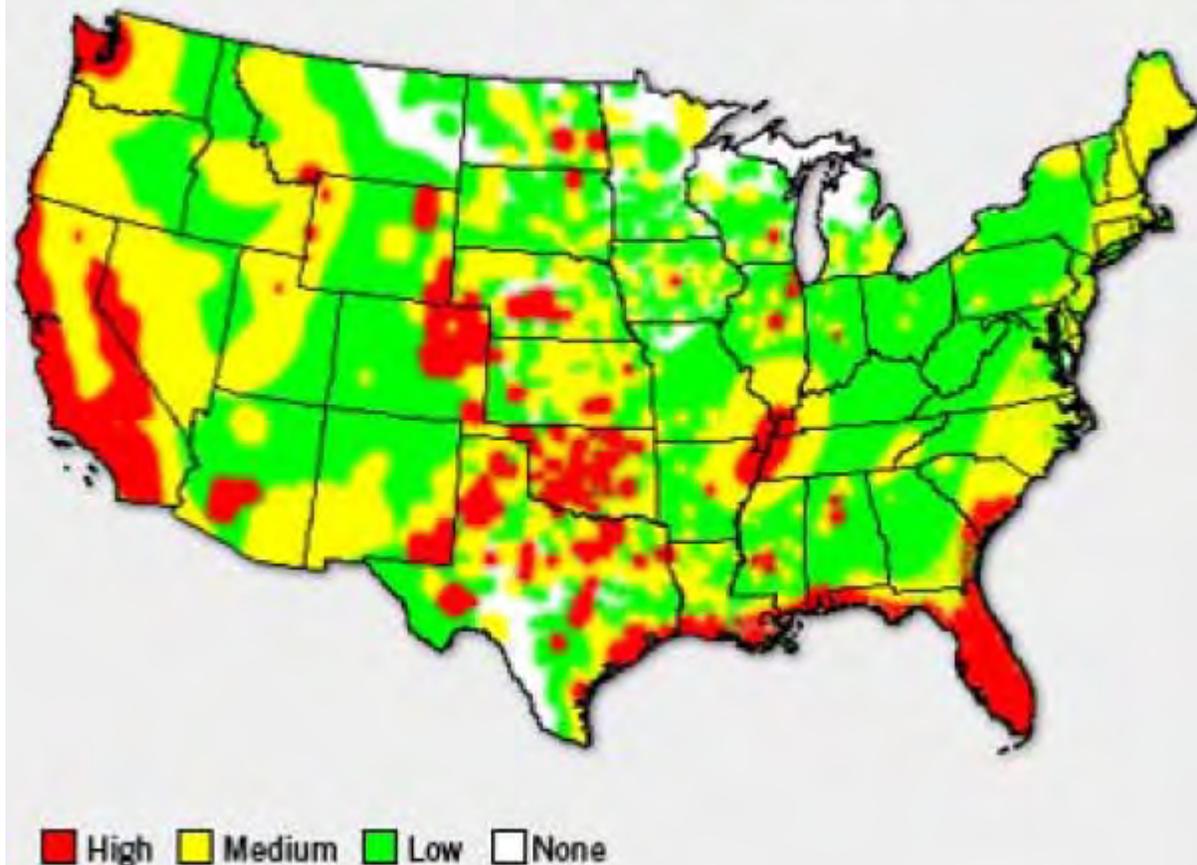
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Risk Analysis is Paramount

Heatmap of earthquake, tornado and hurricane hazard areas



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Study Insights

- What the Study Tells Us
 - Regional Likelihood by Specific Hazard
 - Reasonable Prediction Facility Resilience



- What/Where Additional Analysis is Necessary
- Locations Where Risk is Changing

Public-Private Partnerships

Contract Award (Sept 2015)

-  Switchgear Modernization
-  Microgrid Feasibility Study
-  Gas Line Installation
-  Peak-Shaving Generator
-  Load Classification
-  Microgrid/Carports
-  Tank Removal (45K gals)
-  Tank Relocation
-  Heating Upgrades
-  Lighting Upgrades
-  Water Fixture Upgrades
-  Retro Commissioning



Base Portsmouth



In closing

- DHS is strategically positioned to demonstrate the inseparability of security and resilience
- The need for resilient, reliable, and secure resource alternatives are critical to the DHS mission

One team, one mission, securing our homeland



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Sustainable Energy. Sustainable Mission.



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