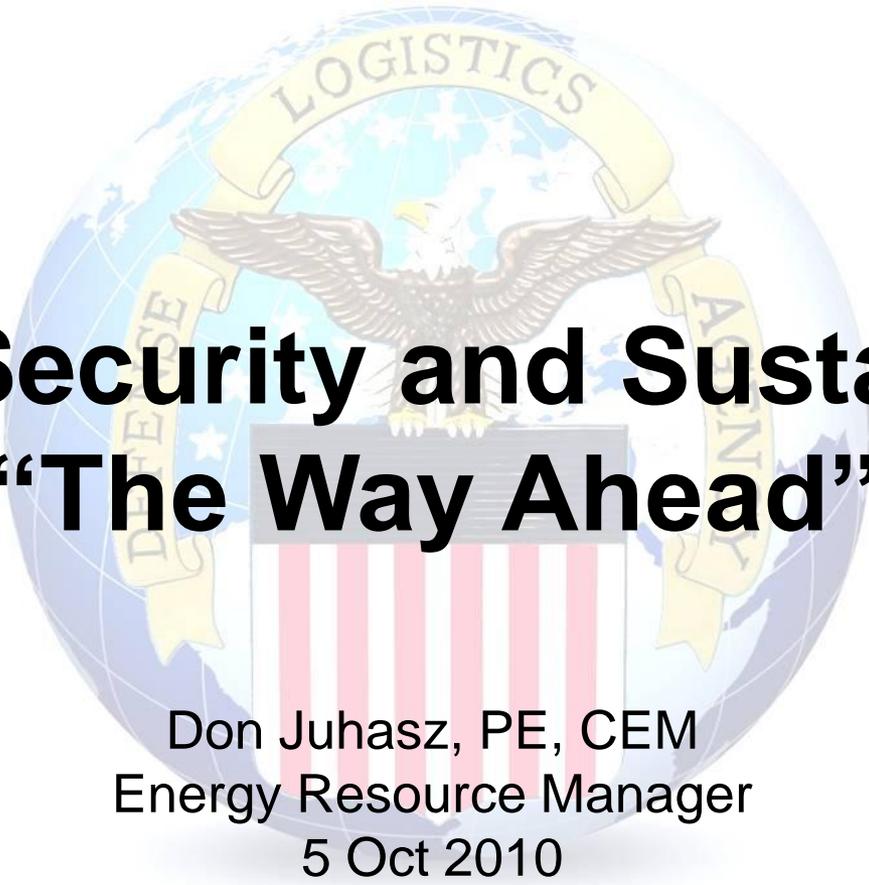


DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY

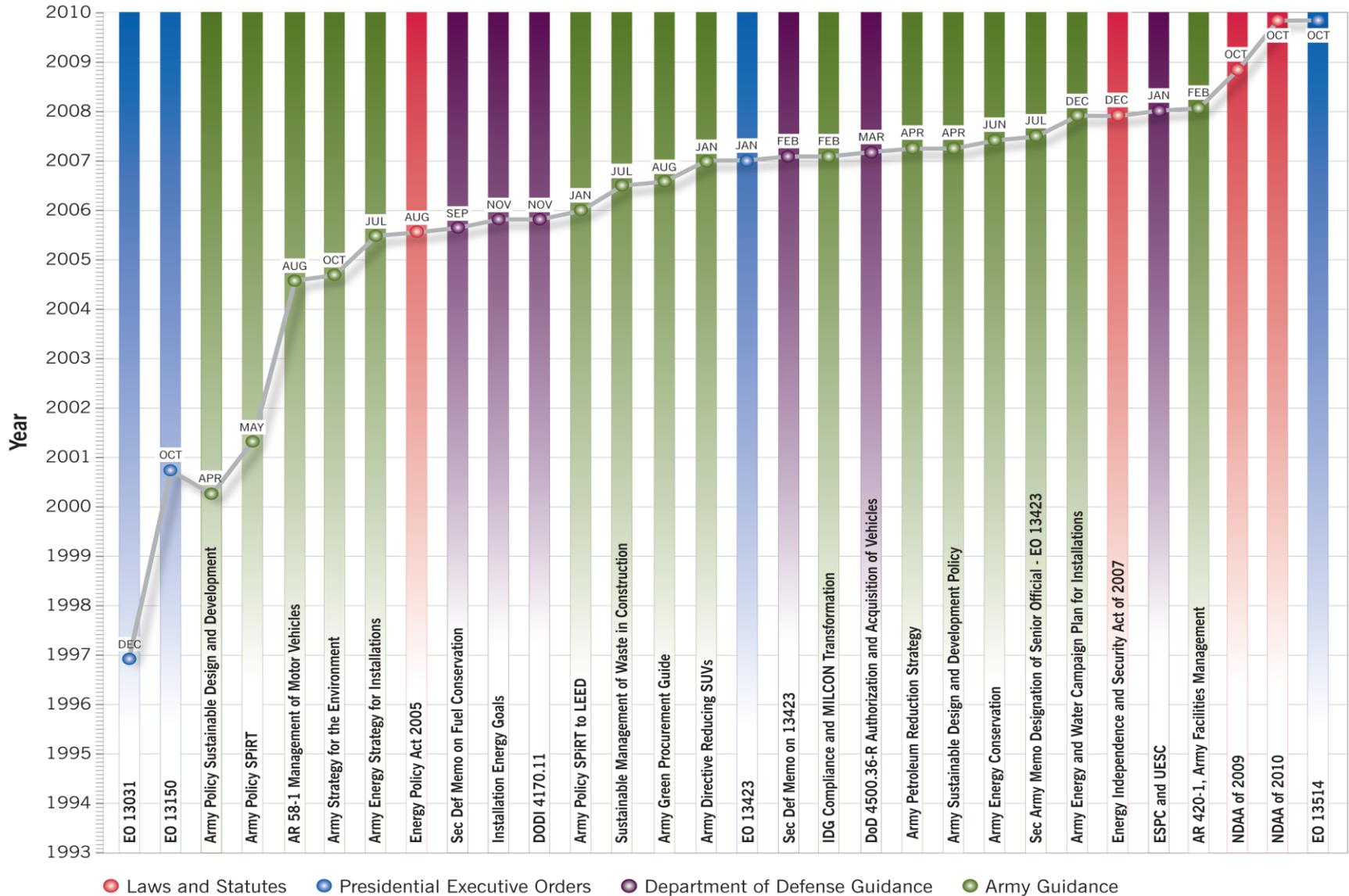


Energy Security and Sustainability “The Way Ahead”

Don Juhasz, PE, CEM
Energy Resource Manager
5 Oct 2010



Energy Security and Sustainability



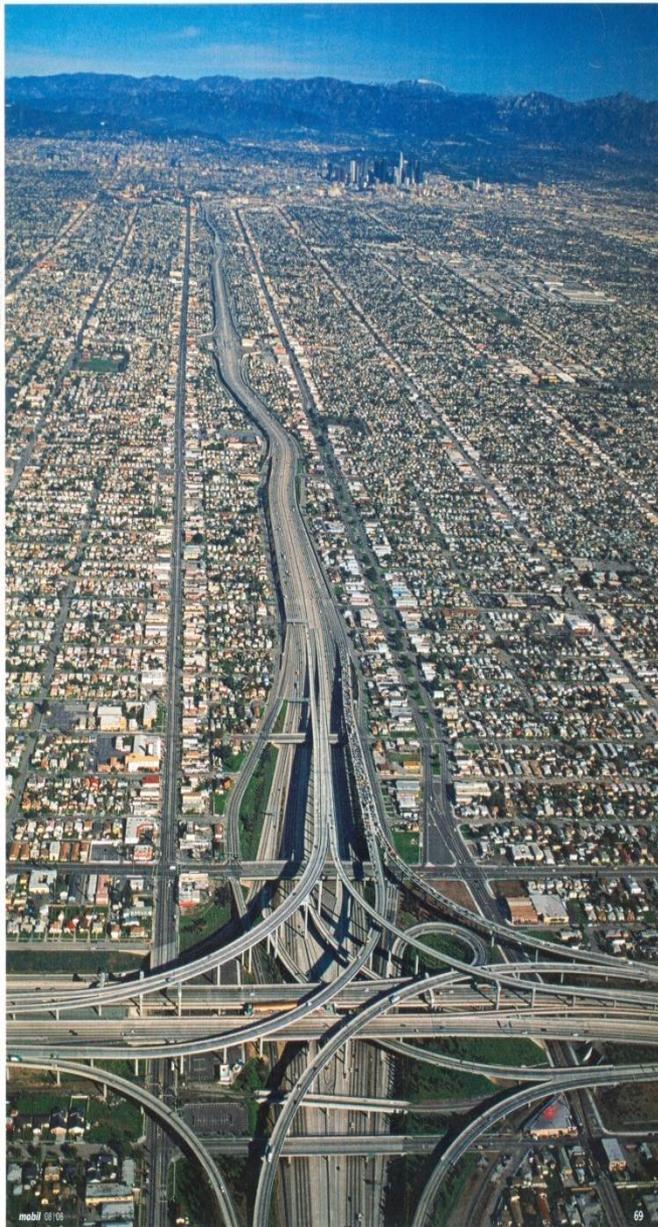


Energy Security and Sustainability

- Guiding Principles in the Energy & Water Strategy
 - Decrease Energy waste in all systems, processes and facilities;
 - Increase energy efficiency in all new, replaced or renovated equipment or facilities;
 - Improve energy security by reducing dependence on fossil fuels and increasing production of renewable & alternative energy sources and supplies;
 - Reduce wasteful water consumption; and
 - Decrease the impact of Energy & Water use on the environment



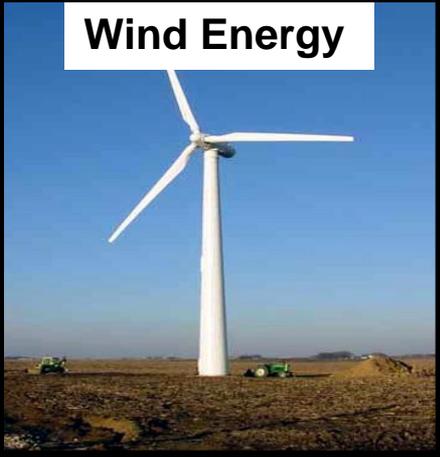
Existing Buildings





Renewable Energy Options

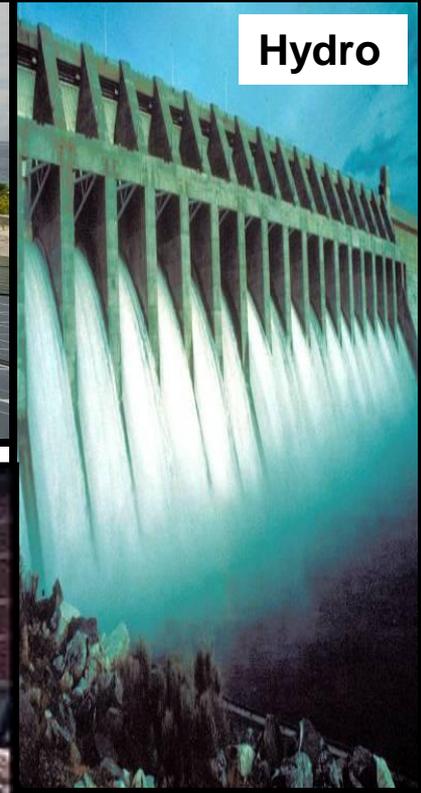
Wind Energy



Solar Voltaic



Hydro



Solar Walls



Solar Water Heating



Biomass



Ground Source Heat Pumps



Geothermal





DOD GHG SUCCESSES





Sustainable Energy Initiatives

- High Performance Building Design Principles
 - Eliminate Thermal Bridges
 - Sealed Envelopes –
($<.025$ cfm/sqft at 0.3 iwg or 75Pa)
 - High R-values (Roofing, Outer Walls, Stem Wall)
 - Passive Solar & Shading
 - Encased Operational Windows
 - Heat Transfer Intake to Exhaust
 - Radiant heating/cooling



Sustainable Energy Initiatives

- LEED Silver required for all new construction and Major Renovations
 - LEED Gold by 2015
 - LEED Platinum by 2020
- 30% Better than ASHRAE 90.1 2007 for all new construction and Major Renovations
- Net Zero Initiative



Way Ahead

- As Industry LEADERS
 - Highlight energy reduction as an Organization imperative
 - Use leadership to change organizational actions and wasteful energy processes
 - Ensure construction standards incorporate high performance design principles
 - Support Energy Report Cards for all managers at all levels
 - Practice what you preach
- With DoD Programs
 - Support federal policy and requirements that facilitate achieving Energy & Petroleum Reduction Goals
 - Implement energy efficiency improvements in all new/remodel projects
 - Implement greater use of renewable energy sources in designs
 - Require management accountability for the use of all utilities



ANY QUESTIONS?

YOU CAN RUN.

YOU CAN HIDE.

**BUT, YOU BETTER TURN
YOUR LIGHTS OFF!**

**SAVING ENERGY IN-THEATER
AND AT HOME.**

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DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY



WARFIGHTER SUPPORT ENHANCEMENT

STEWARDSHIP EXCELLENCE

WORKFORCE DEVELOPMENT