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# DoD Approach to Operational Energy

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**Office of the Deputy Assistant Secretary of Defense  
for Environment and Energy Resilience**

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Overall classification:

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# Introduction

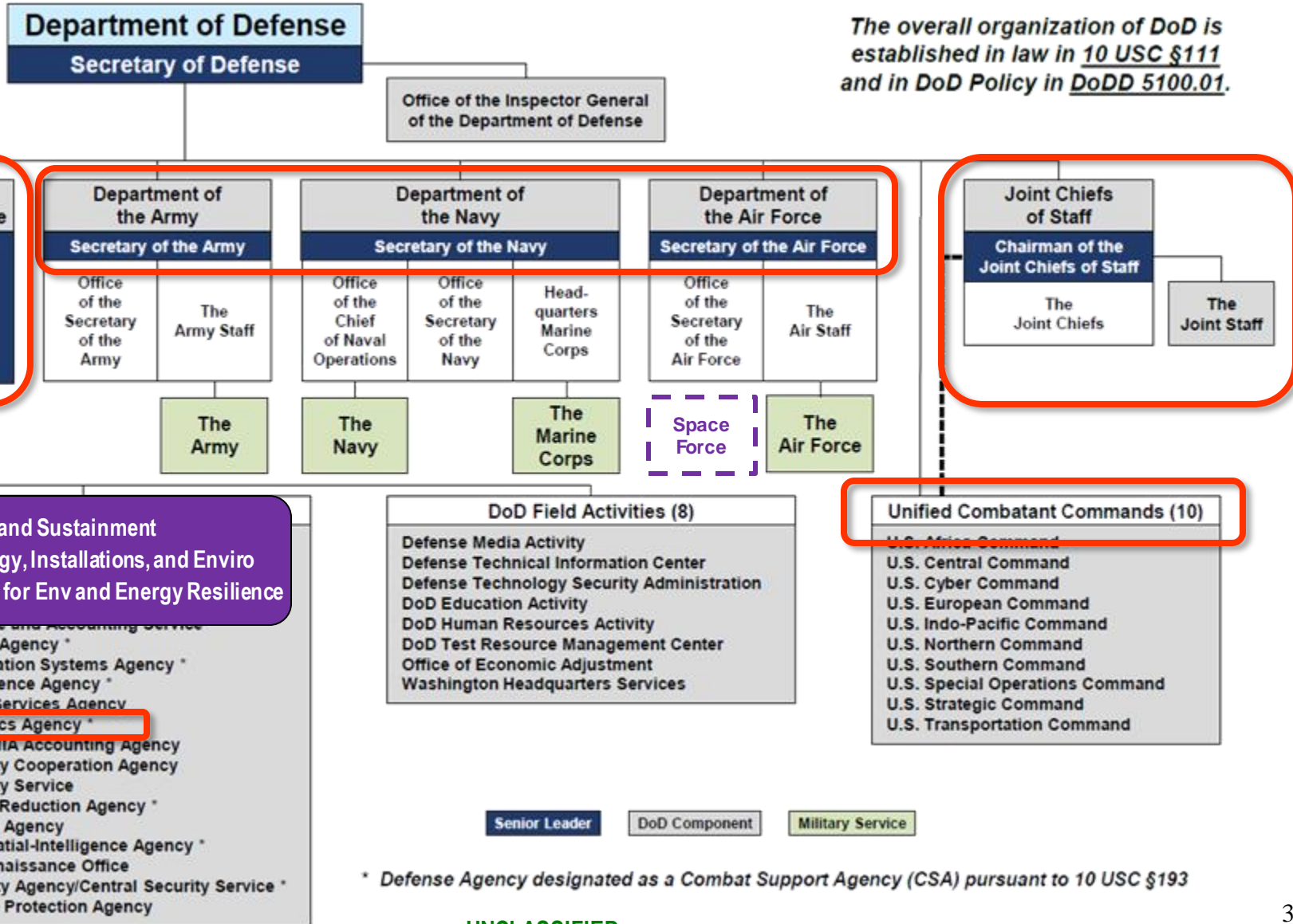
- Operational Energy
  - “...energy required for training, moving, and sustaining military forces and weapons platforms for military operations. The term includes energy used by tactical power systems and generators and weapons platforms”
  - In practice, operational energy is fuel for ships, aircraft, combat vehicles, and contingency basing
  - Exceptions and caveats
- Initial DoD element established in 2010 during peak Iraq/Afg operations
  - Evolution from base camps to all-domain capabilities
  - Shift from stand-alone office to integrated team



# Operational Energy Decision-Making at DoD



The overall organization of DoD is established in law in 10 USC §111 and in DoD Policy in DoDD 5100.01.



> Under Sec for Acq and Sustainment  
 >> Asst Sec for Energy, Installations, and Enviro  
 >>> Deputy Asst Sec for Env and Energy Resilience

# Strategic Context



**Strategic competition  
with PRC**

**Russia as an  
acute threat**

**Threats to the  
U.S. homeland**

**Persistent threats –  
DPRK, Iran, Violent  
Extremist Orgs**

**Escalation  
dynamics**

**Climate change**

**Gray zone  
activities**

- 10 U.S. Code § 2911 – Energy policy of the Department of Defense
  - The Secretary of Defense shall ensure the readiness of the armed forces for their military missions by pursuing energy security and energy resilience.
- 10 U.S. Code § 2926 – Operational Energy Policy. The Secretary of Defense shall:
  - Ensure the types, availability, and use of operational energy promote the readiness of the armed forces for their military missions.
  - Requires the Secretaries concerned and the commanders of the combatant commands to assess the energy supportability in contested logistics environments of systems, capabilities, and plans
- 10 U.S. Code § 2927 – Global bulk fuel management and delivery
  - USTRANSCOM shall be the element responsible for bulk fuel management and delivery of the Department of Defense on a global basis.
- 2022 *National Defense Strategy*
  - Department will make “reducing energy demand a priority,” and “adopt more efficient and clean-energy technologies that reduce logistics requirements in contested or austere environments.”
- Deputy Secretary of Defense Guidance, April 2022
  - “Department’s capability development activities, from requirements to acquisition to sustainment, must increase energy supportability and must reduce energy demand across all capability solutions.”

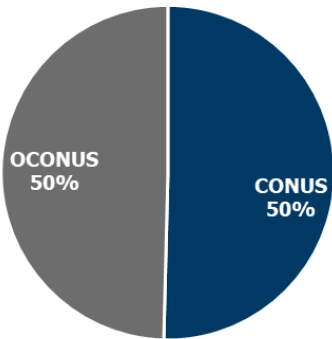
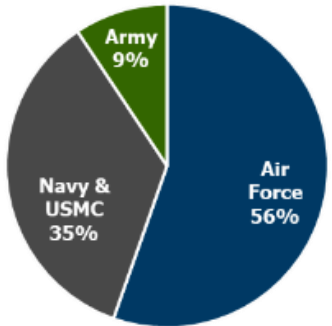
**...and multiple Executive Orders related to installation energy and climate**



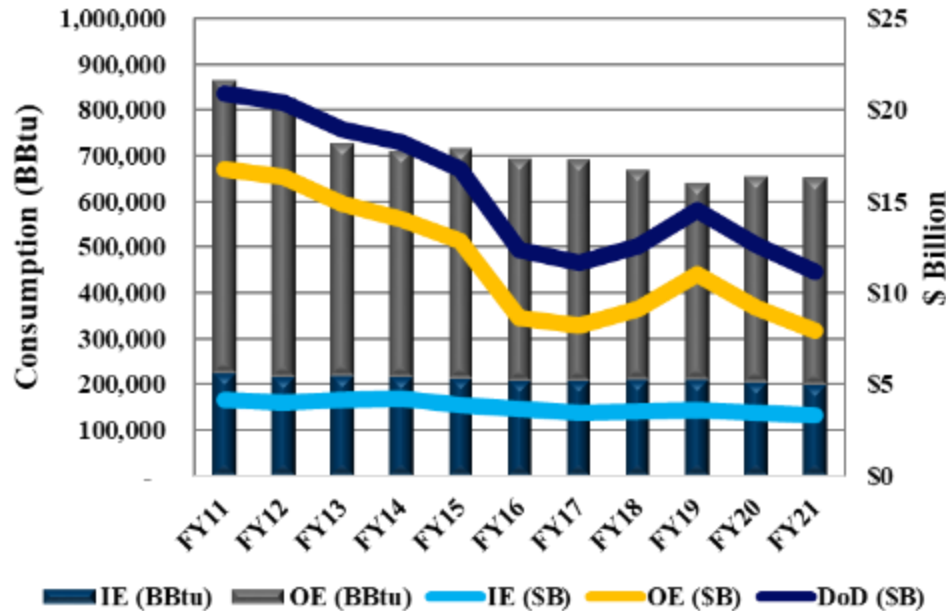
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# DoD Energy Use: Fuel and Power for Forces and Facilities

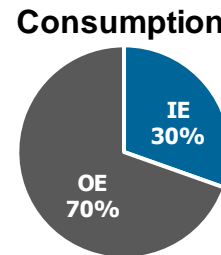
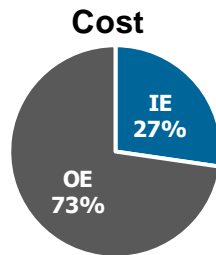
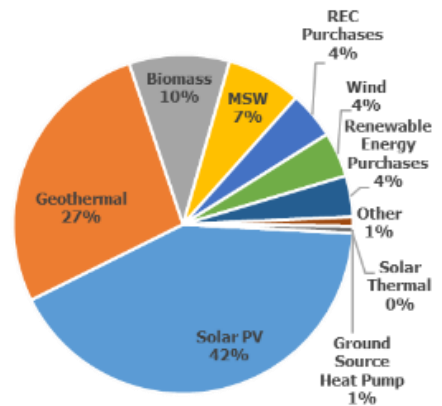
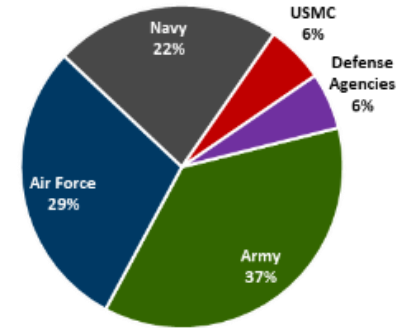
## Operational Energy



## DoD Energy Use and Cost, FY11-21



## Installation Energy



Sources: Annual Energy Management Report, DLA

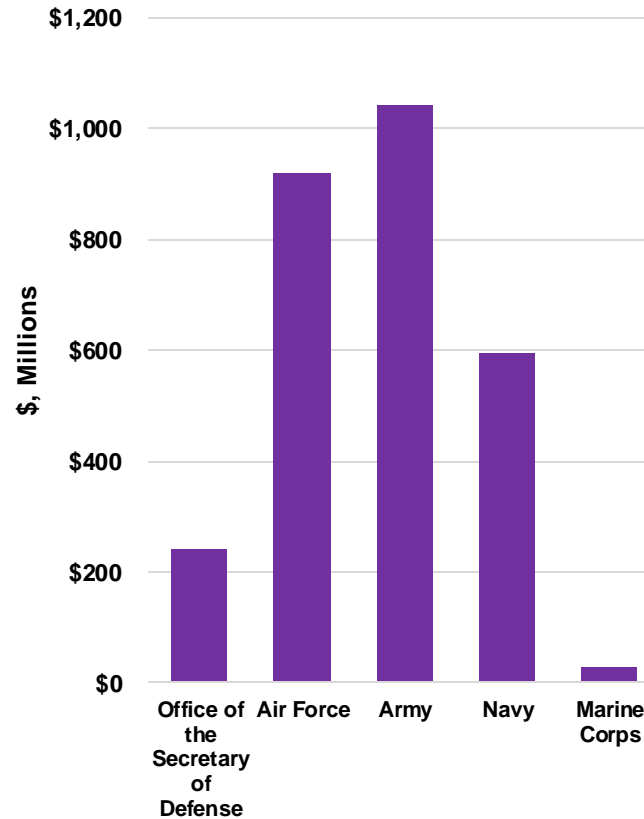
**Operational Energy:** Energy required for training, moving, and sustaining military forces and weapons platforms for military operations

**Installation Energy:** Energy to support mission activities at permanent military installations, including non-tactical vehicles



# Baseline Investments in Operational Energy

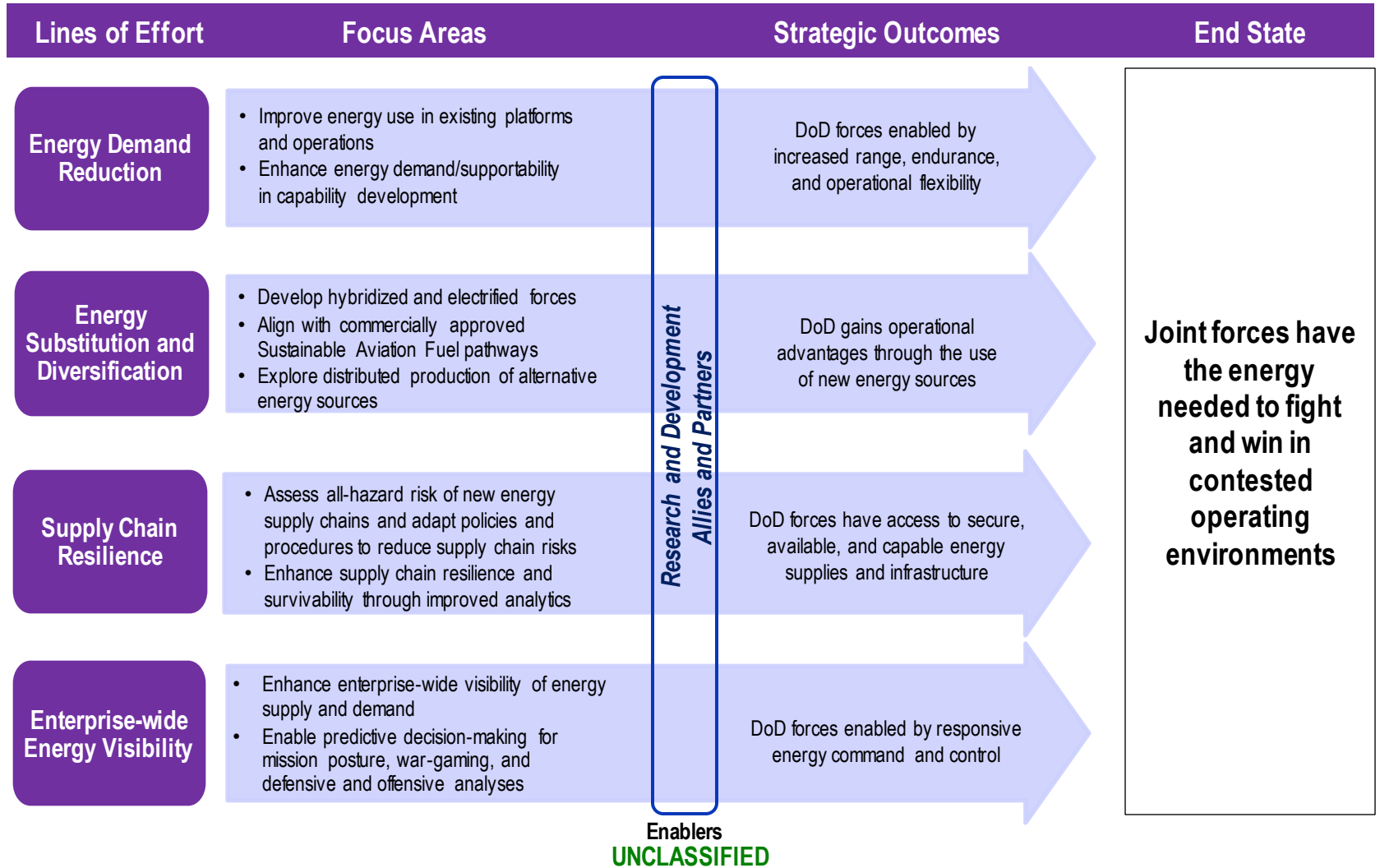
- \$2.8B in the President's Budget request for fiscal year 2023
  - Investments to affect the use of energy – not procurement of energy
- Significant investments in air/land/sea propulsion, new/improved vehicles, enhanced energy distribution





# DRAFT Operational Energy Strategy Framework

“...A plan to integrate efforts to mitigate contested logistics challenges through the reduction of **operational energy** demand within each armed force” – 10 U.S. Code § 2926





## Way Ahead

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- Implementation of Op Energy Strategy
  - Sustained focus on demand reduction and energy supportable operations in contested environments
- Points of convergence with installation/estate energy
- Assess collaboration opportunities to enhance capabilities, interoperability, standardization





# Discussion and Contact Information

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