

Center for Energetic Concepts Development



CECD

CENTER FOR ENERGETIC CONCEPTS DEVELOPMENT



DEPARTMENT OF MECHANICAL ENGINEERING
A. JAMES CLARK SCHOOL OF ENGINEERING

University of Maryland Data

25,857 Undergraduate Students

10,157 Graduate Students

3,025 International Students

2,896 Full time Faculty

\$1,575M Total Budget

\$ 518M Contracts and Grants

\$22k Tuition-Out of State

\$8k In State

College of Engineering Ranking

Graduate programs collectively rank:

22th in the nation according to the *U.S. News & World Report's* "America's Best Graduate Schools 2011."

11th among all public universities

2nd among East Coast public universities

A CECD PURPOSE

In Partnership with the
Naval Surface Warfare Center,
Propagate the Indian Head Division as
DoD's Energetics Center of Excellence

GRADUATE PROGRAM

- Awarded 28 (16) MS degrees
- Awarded 11 PhD degrees
- Currently there are 18 MS students
- Currently there are 4 PhD students

Center for Energetic Concepts Development

Celebrating
10
Years
of Achievement
CECD



DEPARTMENT OF MECHANICAL ENGINEERING
A. JAMES CLARK SCHOOL OF ENGINEERING



Defense Operational Energy Plans & Programs

Professor James Short

University of Maryland, Mechanical Engineering

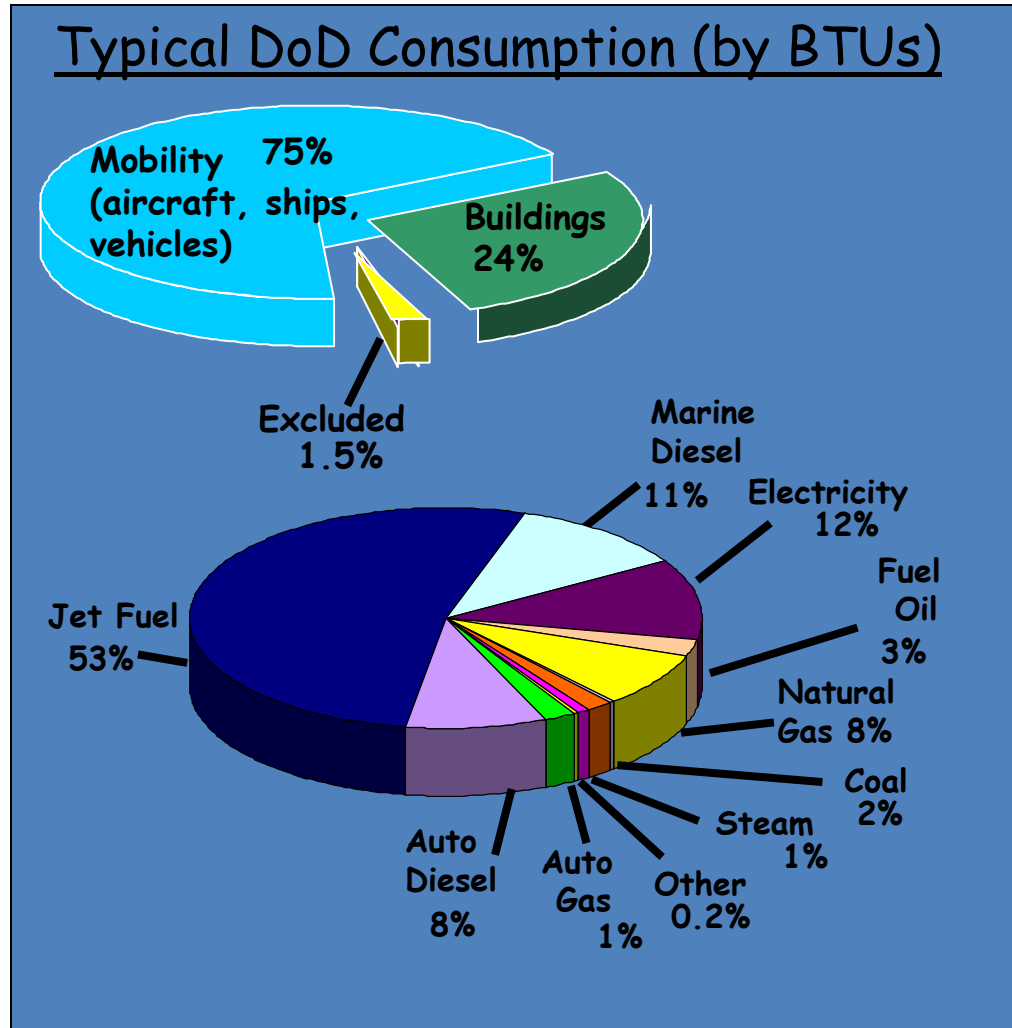
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**Acting Deputy Director, Operational Energy Plans and
Programs**

Office of the Secretary of Defense

June 23, 2010

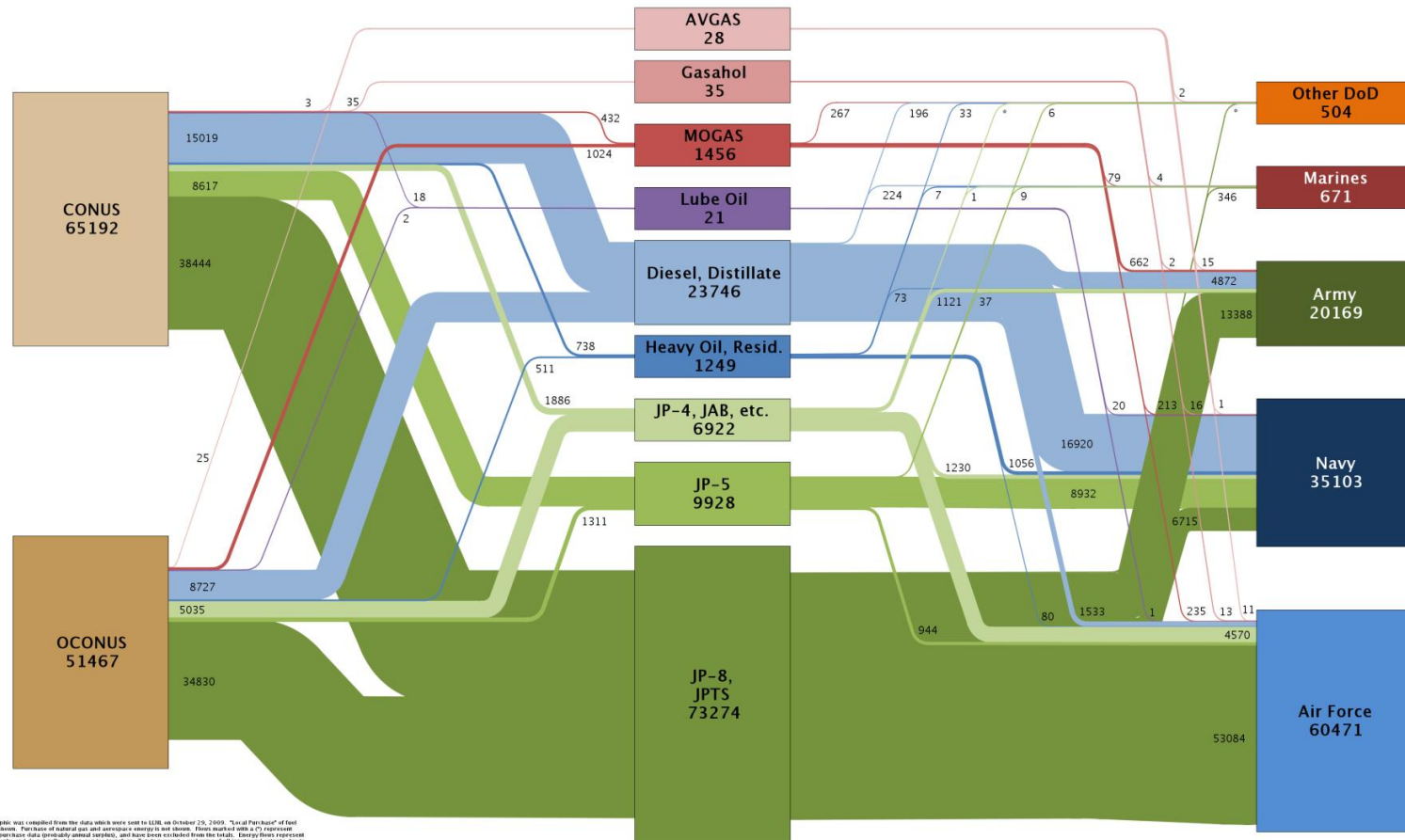
DoD Energy Use



Operational Energy Footprint

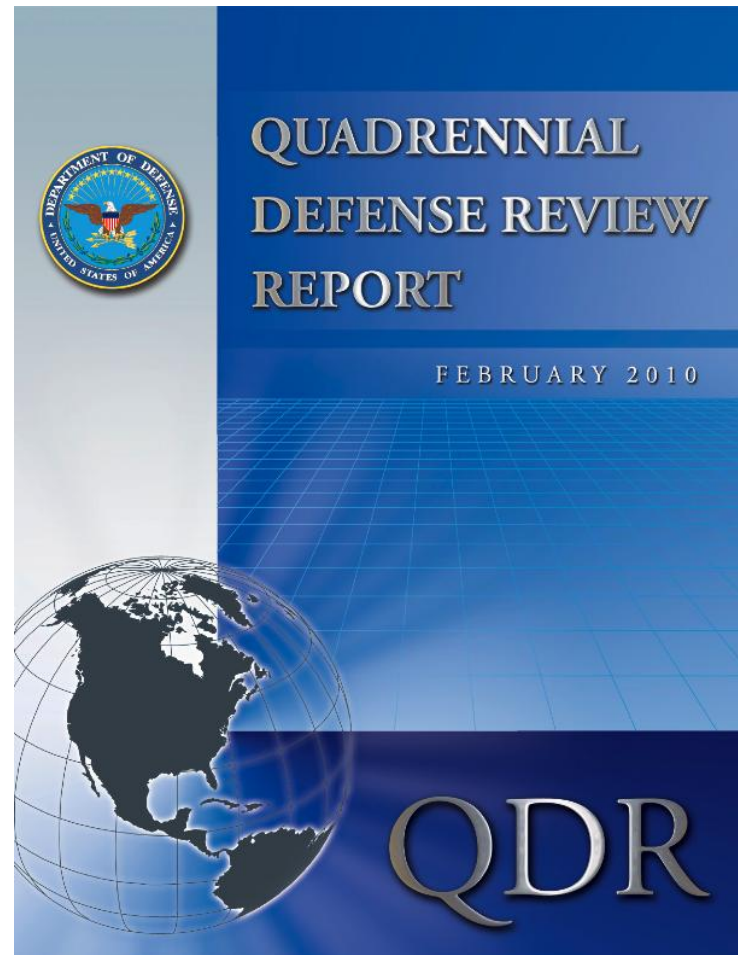


DoD Operational Fuel Use in 2008
116,918 Thousand Barrels



This graphic was compiled from the data which were sent to LLNL on October 29, 2009. "Local Purchase" of fuel is not shown. Purchase of natural gas and electricity is not shown. Flows marked with a (*) represent "negative" purchase data (probably annual contracts), and have been excluded from the total. Flows from represent purchases only, and do not reflect inter-service transfers. Totals may not equal sums of all inputs and outputs due to independent rounding. LLNL-PFD-417615

Operational Energy in the Quadrennial Defense Review



Operational Energy in the Quadrennial Defense Review



Director of Operational Energy Plans & Programs



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