

# Naval Energy Forum

## Enhanced Combat Capabilities through Energy Efficiencies

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Naval Energy Office

Secretary of Navy

# Enhanced Combat Capabilities through Energy Efficiencies

- Energy Goals:
  - Assure Mobility
  - Expand Tactical Reach
  - Green our Footprint
- Approach
  - Use Less/ Conservation
  - ***Efficiency Improvements***
  - Substitute with Alternatives

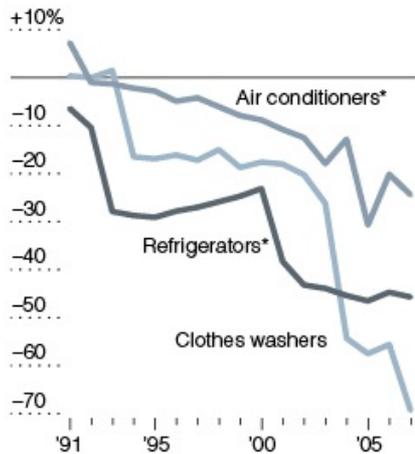
# Enhanced Combat Capabilities through Energy Efficiencies

The New York Times

September 19, 2009

## Many appliances are more energy efficient ...

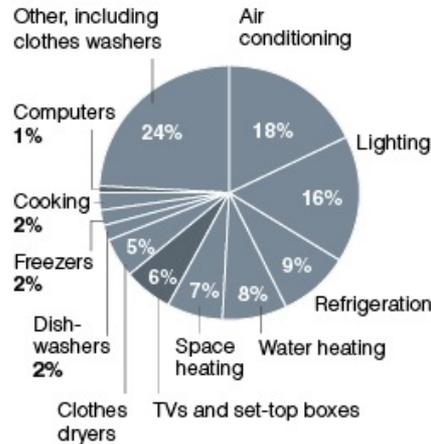
CHANGE IN ENERGY CONSUMPTION SINCE 1990



\*1998 data unavailable

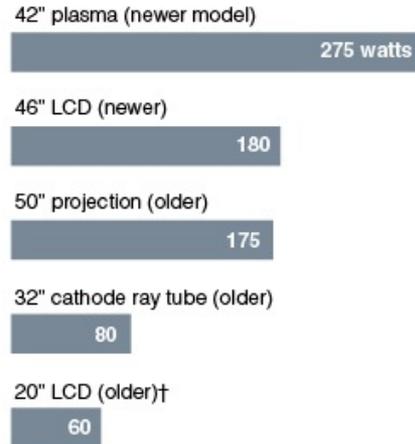
## ... but homes have more gadgets than before ...

AVG. U.S. RESIDENTIAL CONSUMPTION, 2005



## ... and new TVs are bigger energy users ...

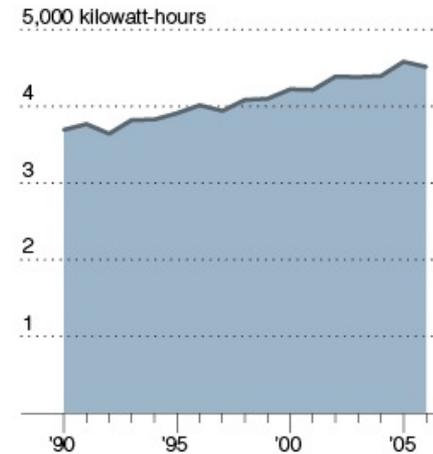
EST. AVG. POWER USAGE FOR TV MODELS



†The technology is popular, but people usually buy bigger models now.

## ... which is causing consumption to rise.

U.S. PER CAPITA ELECTRICITY CONSUMPTION



Sources: International Energy Agency (per capita consumption and energy use by appliance); Association of Home Appliance Manufacturers (decrease in consumption for some appliances); Ecos (TV power usage)

THE NEW YORK TIMES

# Enhanced Combat Capabilities through Energy Efficiencies

- Primary Question: “How do we get more combat capability out of energy?”
  
- Panelists
  - Ms. Carla Lucchino (HQMC)
  - RDML(s) Gregory Nosal (N81 - Assessments)
  - RDML (s) Kevin Scott (N85 – Expeditionary Warfare)
  - RDML Terry Kraft (N88 – Air Warfare)
  - RDML (s) Ann Phillips (N86 – Surface Warfare)