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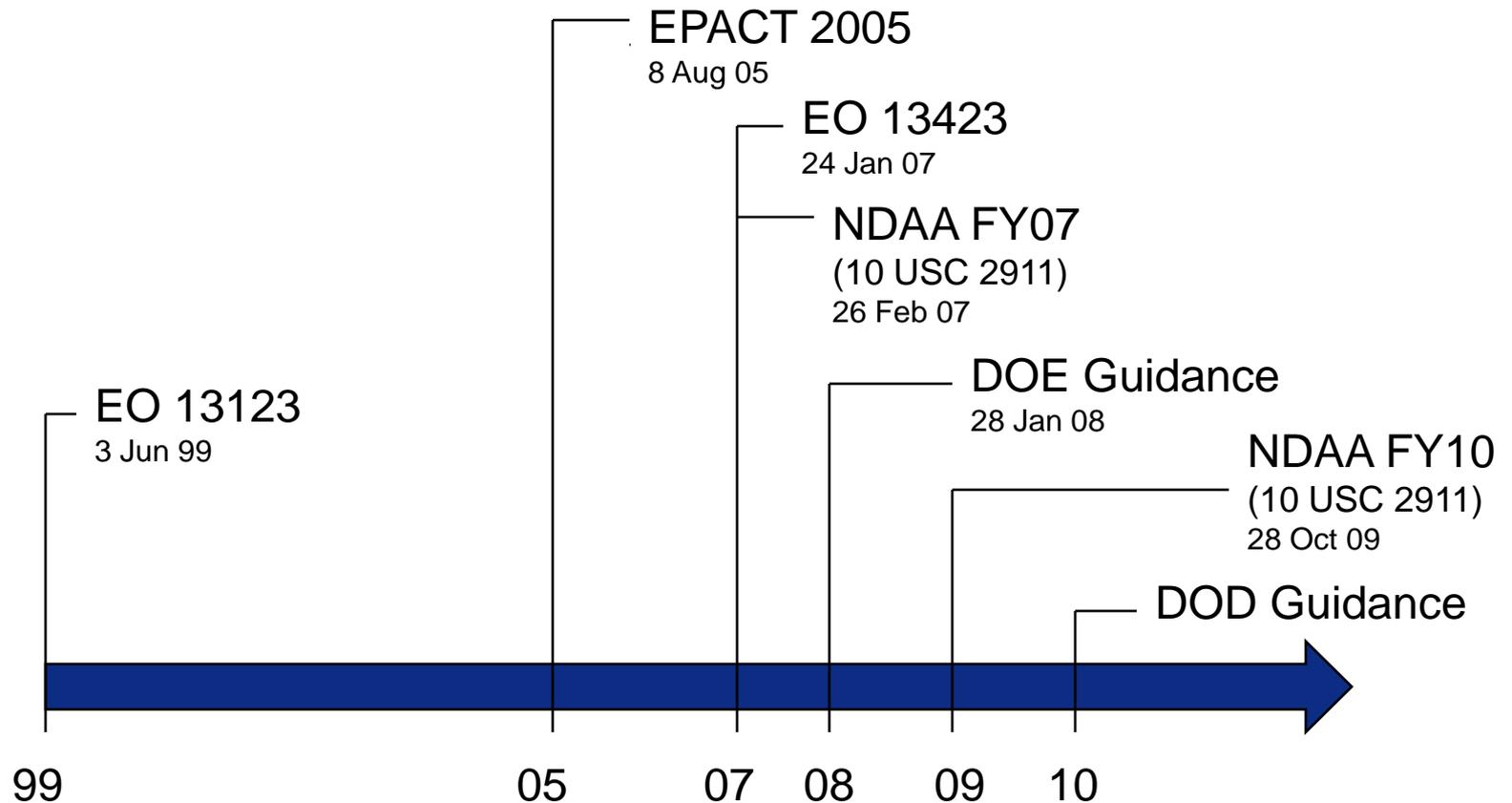
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# Complying with Federal Directives Renewable Mandates

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# Energy Timeline



# Executive Order 13123

- EO 13123 -Greening the Government through Efficient Energy Management, issued 3 June 1999
- Two types of renewable activities recognized
  - Purchase of electricity from renewable energy (RE) sources
    - Use savings from energy efficiency projects to pay for added incremental electricity cost from RE sources
  - Expand the use of RE within its facilities
  - Set a goal of 2.5% for renewable power purchases
- All RE purchases are subtracted from agency total energy consumption

# Energy Policy Act of 2005

- EAct 05 Section 203 (a) establishes renewable electricity goals consumed by federal agencies, signed 8 Aug 05
- When economically feasible and technically practicable
  - (1) Not less than 3% in FY07-09
  - (2) Not less than 5% in FY10-FY12
  - (3) Not less than 7.5% in FY13 & each fiscal year thereafter.
- Defines renewable energy sources as: solar, wind, biomass, landfill gas, municipal solid waste, ocean energy, new hydro & geothermal
- Renewable energy amount shall be doubled if: renewable energy is produced at a Federal facility, on Federal lands or on Native American lands and used at a Federal facility.

# Executive Order 13423 Renewable goals

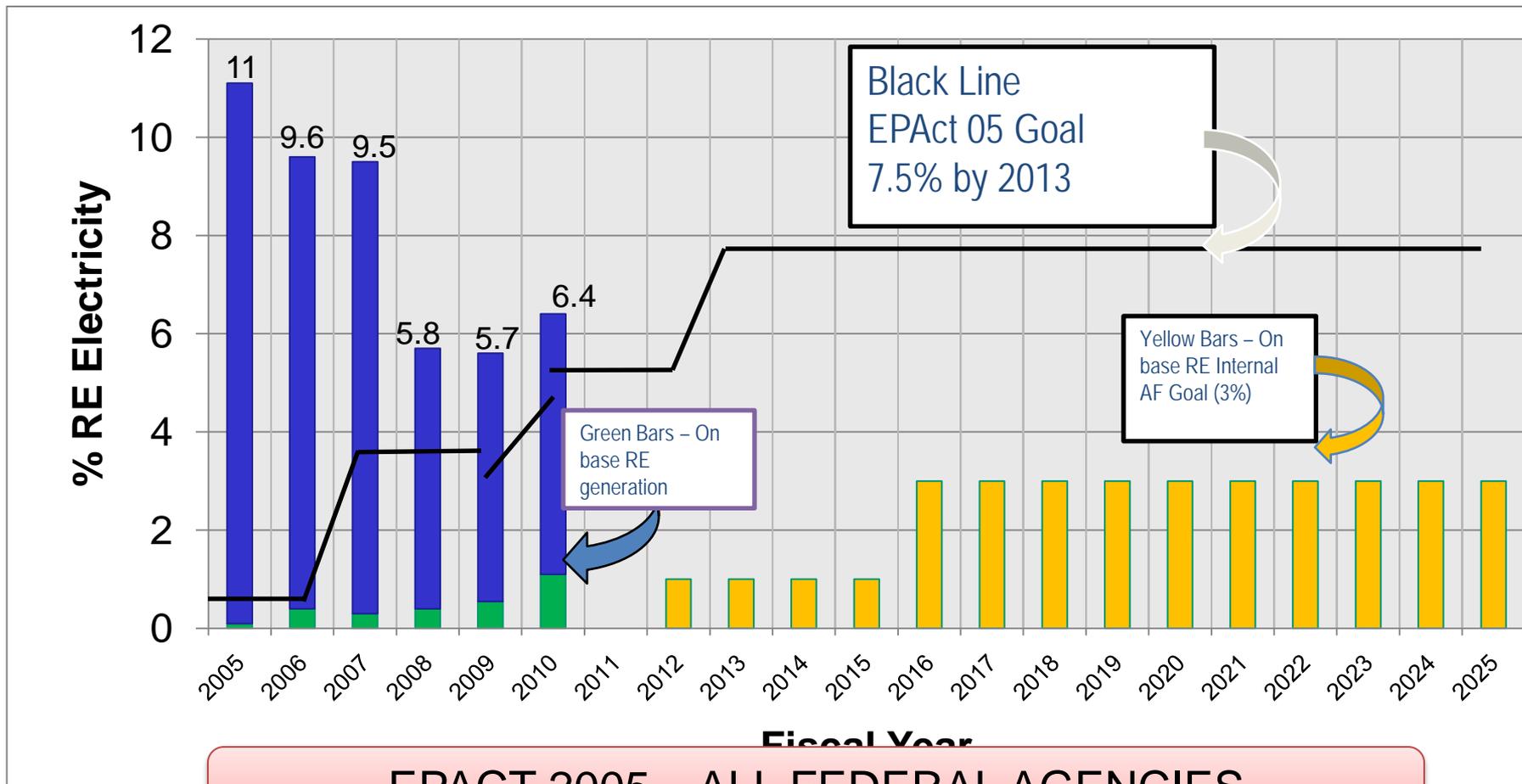
- EO 13423, Strengthening Federal Environmental, Energy, and Transportation, signed 24 January 2007
- Section 2 , Goals for Federal Agencies
  - At least one-half of statutorily requirement from “new” renewable sources
  - Implement renewable generation projects on agency property for agency use
  - Count renewable energy consumed in both thermal and electrical forms including RECs
  - “New” renewable sources are defined as placed in service after January 1, 1999.
- DoE’s FEMP issued guidance to Agencies for implementing EO13423 & EPAAct 05 on 28 Jan 08

# Executive Order 13423

- Revokes these Executive Orders:
  - 13101–Greening the Government through Waste Prevention Recycling and Federal Acquisition, Sep 1998
  - 13123 -Greening the Government through Efficient Energy Management, Jun 1999
  - 13134 –Developing and Promoting Bio-based and Bio-energy products, Aug 1999
  - 13148 -Greening the Government Through Leadership in Environmental Management, Apr 2000
  - 13149 -Greening the Government Through Federal Fleet and Transportation Efficiency, Apr 2000

# Renewable Power Status

## EPACT 2005



EPACT 2005 – ALL FEDERAL AGENCIES

# DOE Renewable Guidance Under EPOact 2005 & EO 13423

- Final Guidance published January 28, 2008
- Renewable Highlights
  - Electric Energy from Renewable sources only count toward EPOact goals
  - Renewable attribute and non-renewable attribute must be retained by agency
    - (non-energy attributes: SO<sub>2</sub>, NO<sub>x</sub>, Mercury, CO<sub>2</sub>, etc)
  - “Old” vs “New” renewable sources
    - ½ of the statutory goal must come from “new” (after Jan 1, 1999) renewable sources.
- Bonuses for renewable energy generation or purchases if:
  - Produced and used on-site at a Federal facility
  - Projects and purchases must come from “new” renewable energy sources

# DOE Renewable Guidance Under EPOact 2005 & EO 13423 (Cont)

- Restrict double counting of RECs from on-base projects if sold to third parties.
  - Grandfathered projects for purchases before guidance issue date
  - Grandfathered exemption will expire as of Sept 30, 2011.
- Renewable energy production from projects on Federal lands will not count toward goal unless the renewable energy is used by a Federal agency.
- Agencies may not count renewable energy or REC purchases from resources that are included in the utility's normal generation mix or RPS requirement.

# DOE Renewable Guidance Under EPLAct 2005 & EO 13423

- Counting Renewable Energy Purchases Goal for

Fiscal Year	Energy Reduction Goal	Max contribution of RE & RECs toward Energy Goal	Max contribution of long-term RE & RECs toward Energy Goal
2003	Base Year	RECs and purchases not applied in Base Year	RECs and purchases not applied in Base Year
2007	4%	No limit	Not applicable
2008	9%	5.4%	7.2%
2009	12%	4.8%	7.2%
2010	15%	3.0%	6.0 %
2011	18%	1.8%	3.6%
2012	21%	0.0%	0.0%

# 10 USC 2911 DoD Renewable Energy goals

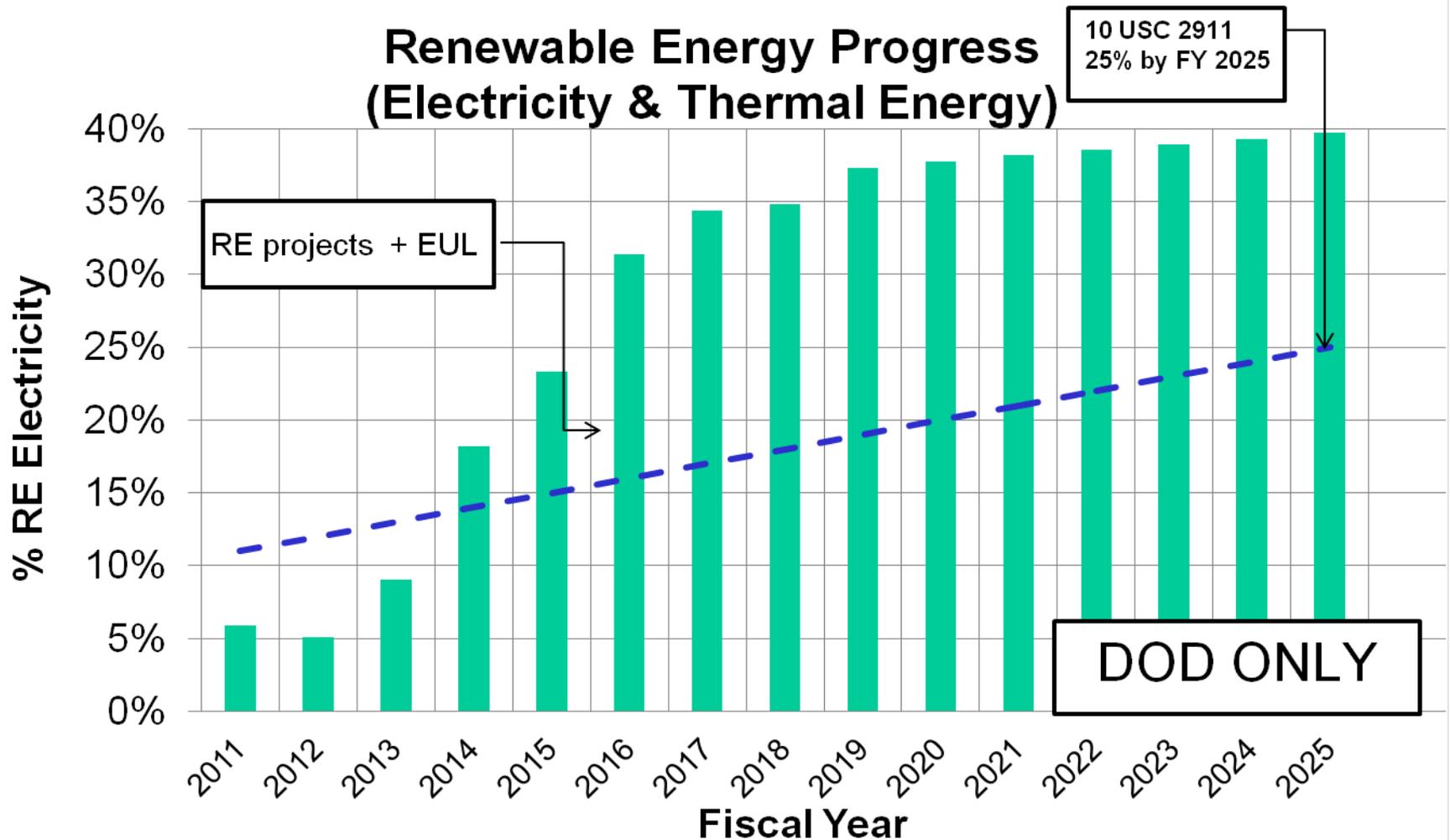
- National Defense Authorization Act (NDAA) of 26 Feb 07 establishes a DOD renewable goal to meet its electricity needs (10 USC §2911)
  - Produce or procure not less than 25% of total electric energy consumed by its facilities during FY 2025 and thereafter.
  - Energy sources as defined by EAct 05
- NDAA of FY 2010 modified 10 USC 2911 effective 28 Oct 09
  - Changed definition of renewable sources within the 25% goal by 2025
    - Will incorporate all thermal energy from renewable sources
    - Increase use of GSHP, solar hot water, solar walls, etc
  - Replaced “electricity” with “facility energy”
- Drives significant expansion of program

# 10 USC 2911 DoD Renewable Energy goals (cont.)

- OSD Interpretation & Guidance
  - Interprets “Facility Energy” as “Electricity” produced or procured within its facility
  - Allows Renewable Energy onsite production to count towards 25% goal
    - Allows renewable energy production owned by third party but not consumed by the installation
    - Renewable attributes (REC) retention are not necessary
  - On-base production counts once, no bonus credit given as in EAct 05

# Renewable Energy DOD Goal

## 10 USC 2911



**10 U.S. Code § 2911: Requires 25% of total electricity consumed replaced by renewable sources by FY 2025**