

# **Federal Spending for Solar Energy**

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**Library of Congress**

**EESI/Optical Society Briefing on Solar Energy**

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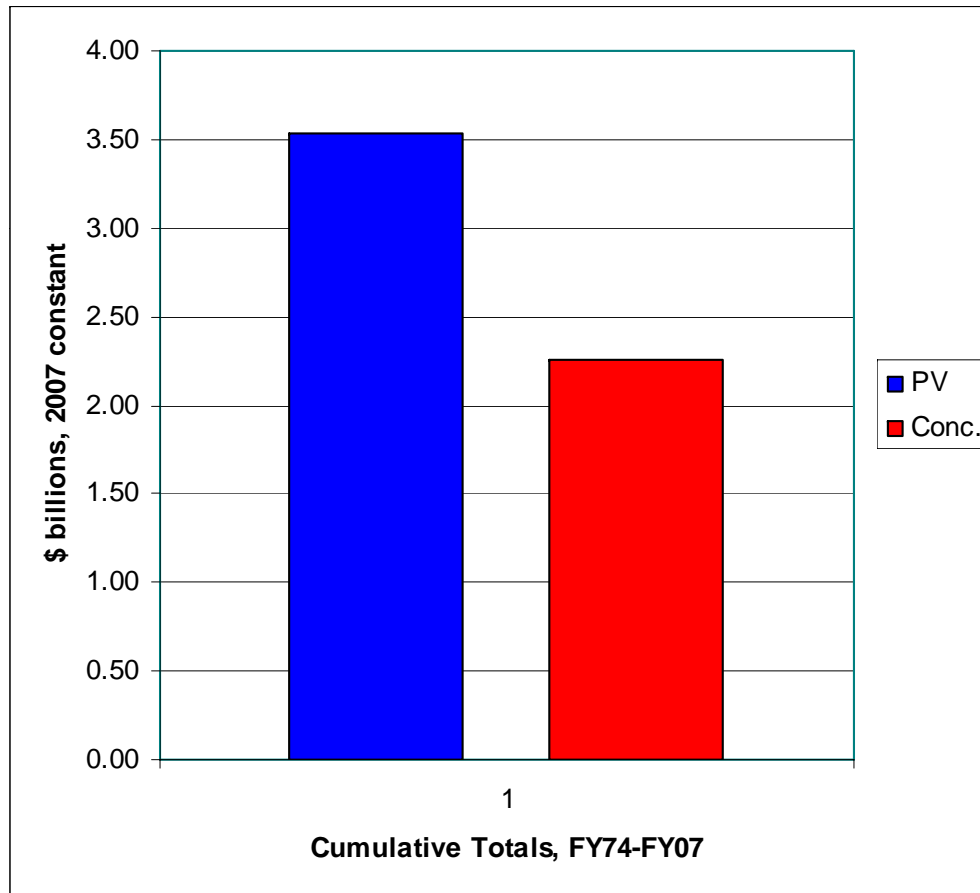
# Appropriations

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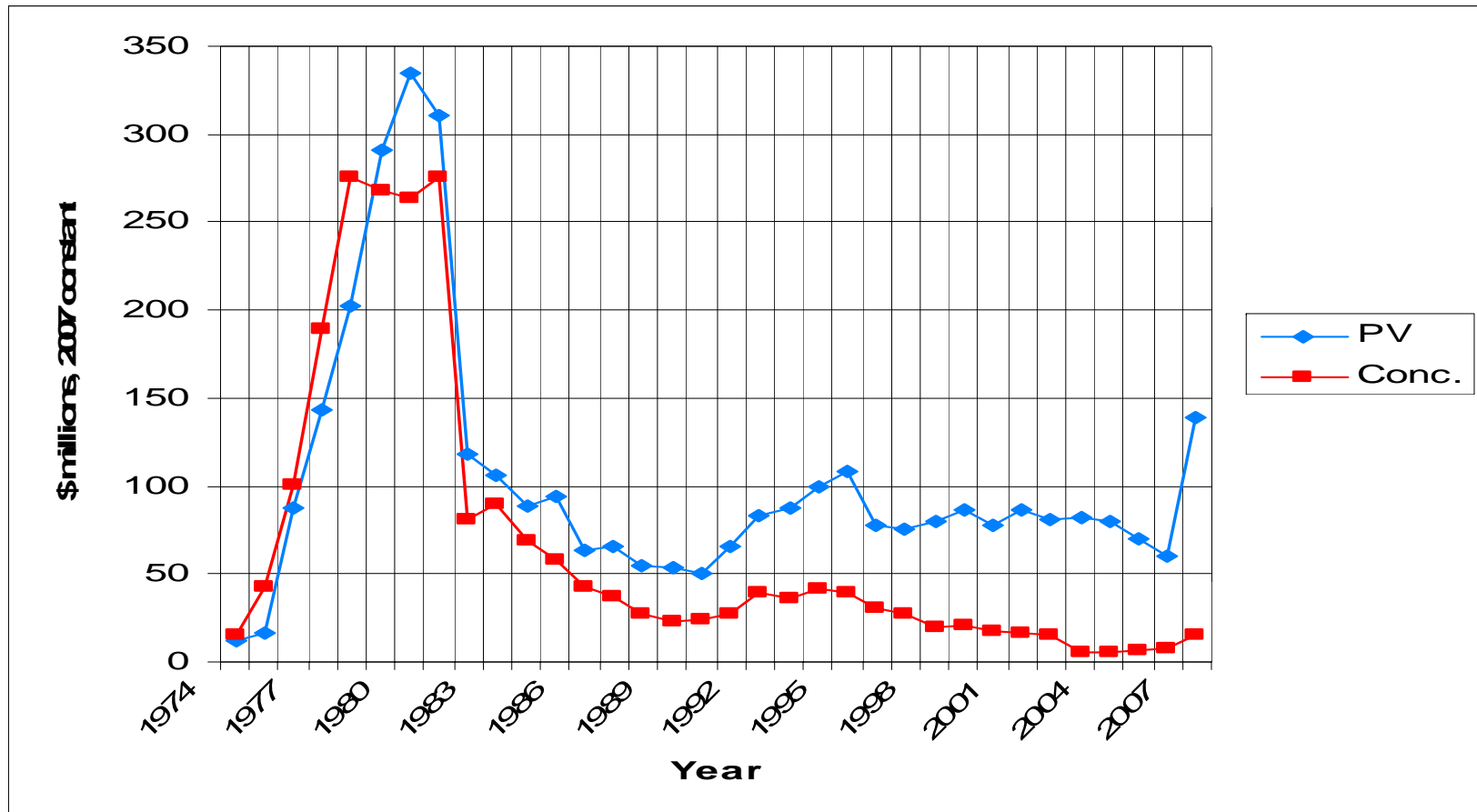
- Energy & Water - - DOE R&D Programs
- Agriculture - - grants and loans
- Foreign Ops - - “Clean Energy” in developing countries to reduce Greenhouse Gases

# DOE PV & Concentrating Solar R&D Spending, FY1974-FY2007



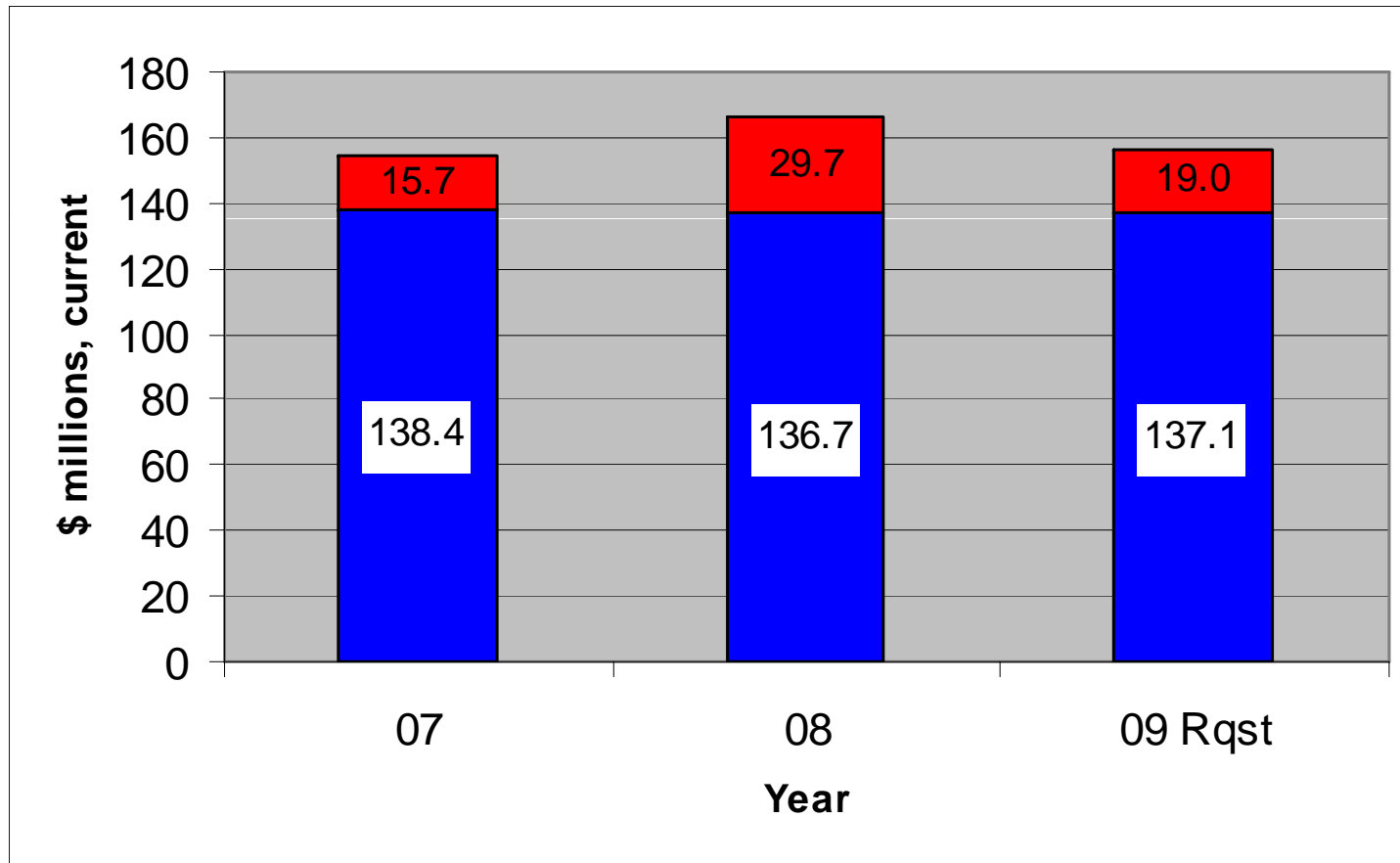
Source: DOE budget history tables; DOE budget requests; and Federal Budget FY2009, Hist. Tables, Table 10.1.

# DOE Solar Spending History



Source: DOE budget history tables; DOE Congressional budget requests; and Federal Budget FY2009, Hist. Tables, Table 10.1.

# DOE PV & Conc. Solar



Source: DOE. FY2009 Congressional Budget Request.

# FY09 Admin Request

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- EERE down \$467 M (-27%)
- Solar down \$12 M (-7%)
- PV flat
- Conc. Solar down \$11 M (-36%)

# House Appropriations Committee

## Energy & Water Appns Bill

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- Compared to the Request:
- EERE up \$1.28 B (102%)
- Renewables R&D up \$146 M (31%)
- Solar up \$64 M (41%)
- No break-outs for PV or Conc. Solar

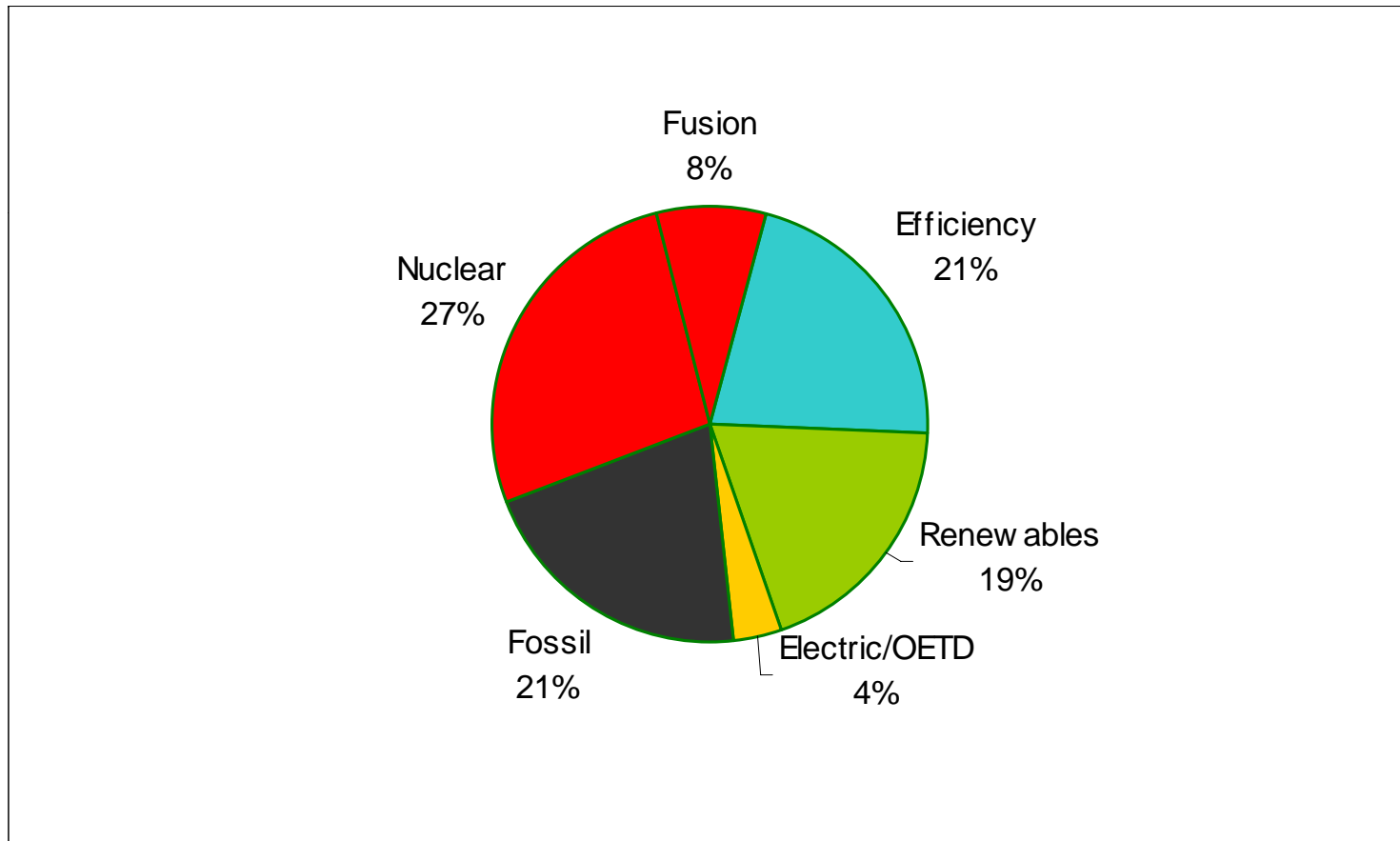
# Renewables Spending in Broad Context

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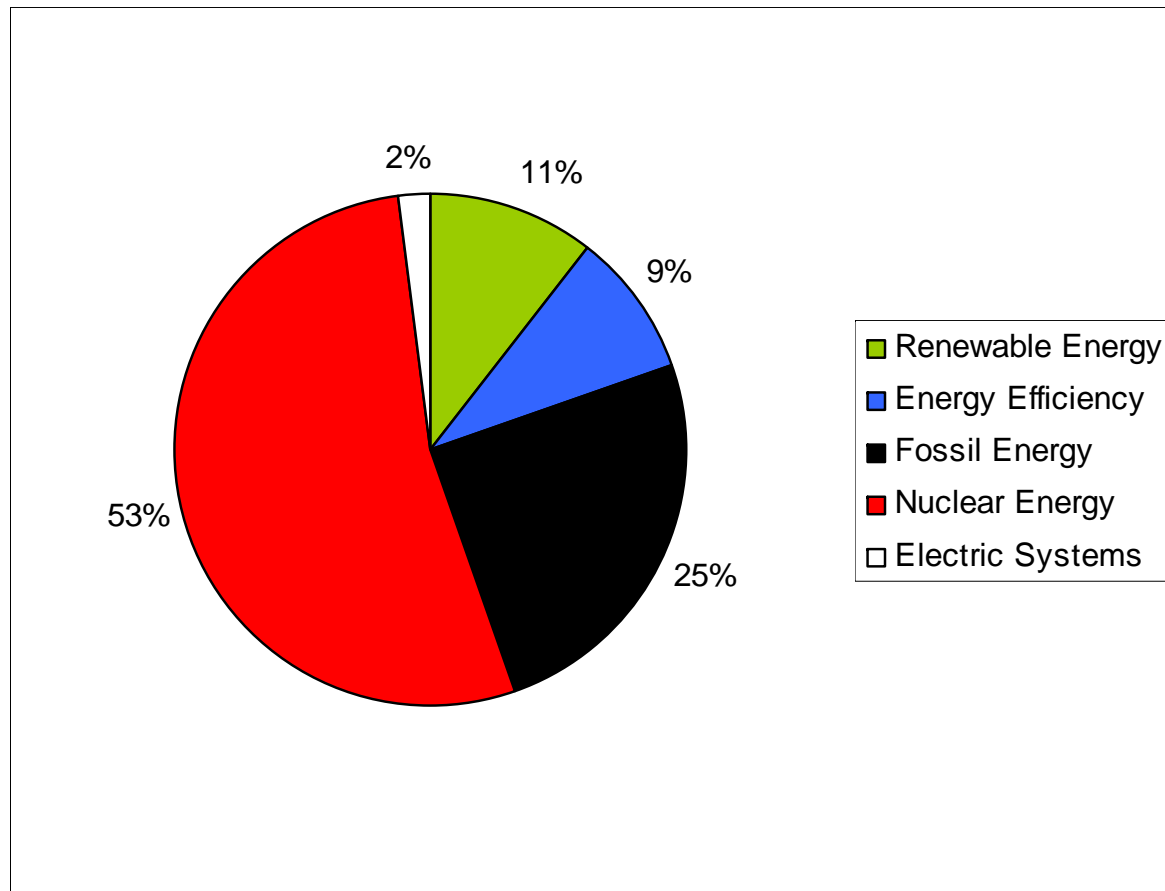
- FY2008 spending close to parity with other technologies
- Historically, much less spending than for nuclear and fossil technologies

# Energy R&D Funding, FY2008



Source: DOE FY2009 Cong. Budget Request. Fusion is funded under Office of Science, all others under Energy Resources Supply and Conservation

# DOE Energy R&D Funding Shares, FY1948-FY2007



Source: DOE, An Analysis of Federal Incentives Used to Stimulate Energy Production, 1980; & DOE Budget Authority History Table.

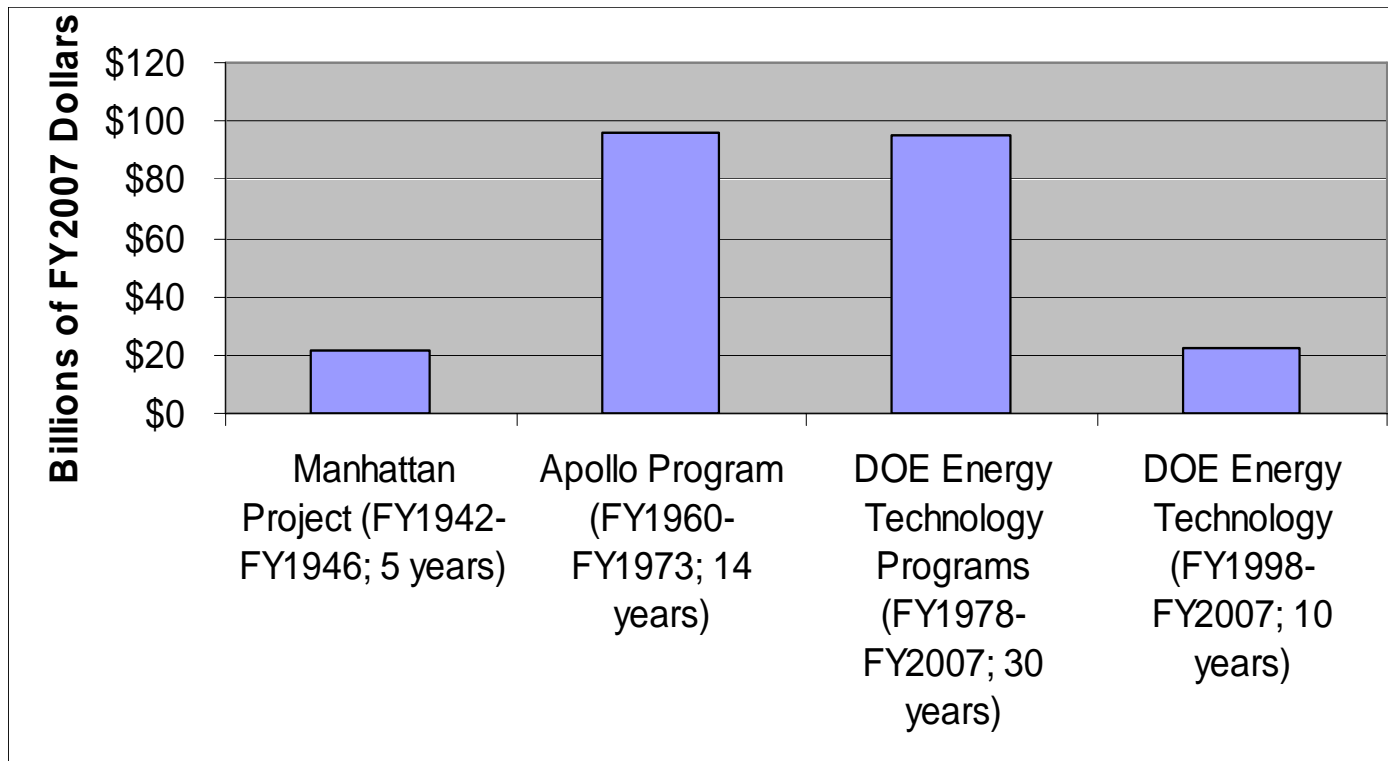
# DOE Energy Spending Compared with Historical “Crash” Programs

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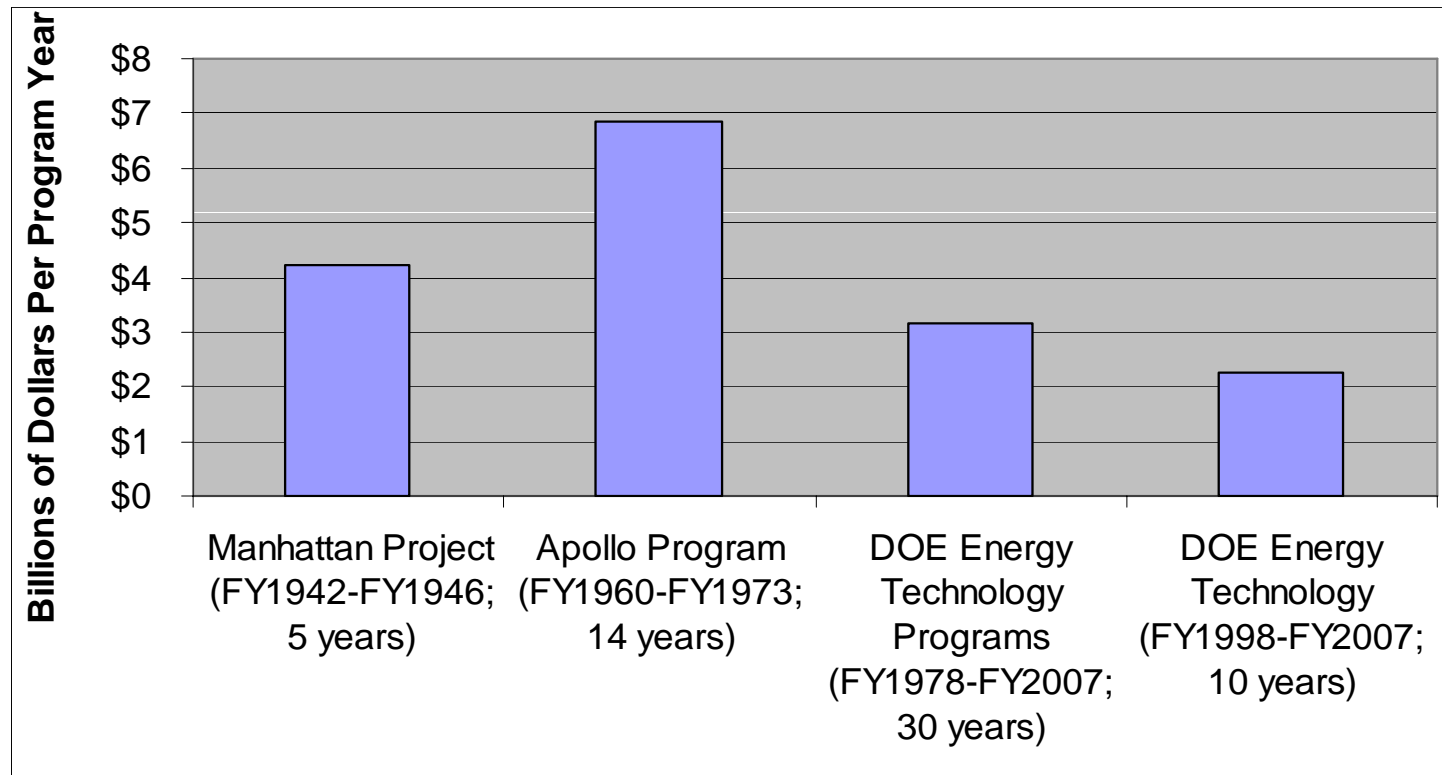
- 30-year total DOE energy R&D spending (FY78-FY07) comparable to 14-year total Apollo Program spending
- 10-year total DOE energy R&D spending (FY98-FY07) comparable to 5-year total Manhattan Project spending

# Total Spending for Manhattan Project, Apollo Program, 30-year DOE, 10-year DOE



Sources: Hewlett and Anderson, *A History of the Atomic Energy Commission*, 1962; Apollo by the Numbers: A Statistical Reference, NASA, 2004; DOE budget history tables.

# Average Annual Spending for Manhattan Project, Apollo Program, DOE 30-year, and DOE 10-year



Sources: Hewlett and Anderson, *A History of the Atomic Energy Commission*, 1962; Apollo by the Numbers: A Statistical Reference, NASA, 2004; DOE budget history tables. All figures converted to 2007 dollars.

# Context & Challenges for Congressional Staff

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- Energy prices
- Energy security
- Budget deficit
- Trade deficit
- Greenhouse gas emissions

# Further information available to Congressional Staff:

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- CRS RS22858, on R&D Funding History
- CRS RL33831, on EE&RE Legislation
- CRS RL34162, Renewable Energy Issues
- All are on the CRS web site at <http://www.crs.gov/>
- Fred is at 7-7039, fsissine@crs.loc.gov