

# Summary of HR 238 as Agreed by Science Committee April 2, 2003



## H.R.238 ENERGY R&D LEGISLATION

Summary: The five titles of the Energy R&D Bill introduced at the start of the 108th Congress comprised the Science Committee portions of H.R. 4 that were largely agreed to by the Energy Conferees last fall. After markup in committee, the total R&D authorization is just under \$32 B in funding for science and technology to identify more efficient and cleaner sources or uses of energy. Most authorizations are for 2004-2007, although a few programs are authorized through as late as 2012. A summary of the bill's major provisions follows:

### Title I-Research and Development

Purposes, Goals, Definitions includes quantitative near-term and long-term goals for energy efficiency, renewable energy, coal, hydrogen, oil and gas, and nuclear power.

Subtitle A - Energy Efficiency authorizes \$2.9 B for FY 04-07 including \$200 M for a Next Generation Lighting Initiative, \$25 M for secondary electric vehicle battery recycling and \$110 M for the Energy Efficiency Science Initiative.

Subtitle B - Distributed Generation authorizes \$850M for FY 04-07 including a strategy to develop renewable-fossil hybrids and programs relating to high power density industries, \$23 M for micro-cogeneration and transmission infrastructure systems.

Subtitle C - Renewable Energy authorizes \$1.8 B for FY 04-07 including \$639 M for bioenergy, and \$120 M for grants to local governments for use of renewables in public buildings.

Subtitle D - Nuclear Energy authorizes: \$1.7 B for FY 04-07 including Nuclear Power 2010, and Gen IV programs; Proliferation Resistant Advanced Fuel Recycling and University Programs.

Subtitle E - Fossil Energy authorizes \$2.3 B for FY 04-07 (not including a separate authorization for Clean Coal Power Initiative) for power technologies, oil and gas technologies, fuel cells, coal mining technology and for an Arctic Energy Office. It also includes an authorization enabling 7.5% of oil and gas royalty funds to be used for Ultra-deepwater and Unconventional oil and gas research that is not counted in the total.

Subtitle F - Science authorizes \$17.9 B for FY 03-07 including \$1.4 B for Fusion, \$349M for the Spallation Neutron Source, and \$1.23 B for Nanotechnology. It also authorizes the Department's energy- and environment-related biotechnology research effort at \$100 M for 2004 and such sums as are necessary through FY 07, authorization for a U.S. citizen DOE science fellowship program, and requires a Facilities Infrastructure Plan for the National Laboratories.

Subtitle G - Energy and Environment authorizes \$24 M for various specified projects.

Subtitle H - Hydrogen authorizes \$1.8 billion through FY 2008 to carry out the President's hydrogen initiative, including fuel cells, hydrogen production and FreedomCAR vehicle technology.

Subtitle I - Management includes general requirements relating to expenditure and reprogramming of funding, cost sharing, merit and external technical review, small and minority businesses, mobility of scientific and tech personnel at labs, outreach and competitive awards.

### Title II-Department of Energy Management

Includes a section making the head of the Office of Science an Assistant Secretary, and a section transferring the regulation of health and safety and nuclear regulation at DOE non-military labs to OSHA and NRC. Includes a section requiring a report on equal opportunity practices at DOE labs.

### Title III-Clean School Buses

Establishes three-year, \$300 M programs to assist local communities with the purchase of alternative fuel, clean diesel and fuel cell school buses. Includes additional authorization for a clean diesel school bus retrofit program.

### Title IV-Alternative Fueled and Advanced Vehicles

Establishes a \$200 M program to assist communities with the purchase of alternative fuel and advanced vehicles and supporting infrastructure used in intermodal transportation.

### Title V-Clean Coal

Authorizes \$200 M per year through 2011 for a Clean Coal Initiative involving projects that meet technical, environmental, and financial criteria and establishes centers of excellence.

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