

Department o			
Program	FY 02 Funding (\$M)	FY 03 Request (\$M)	Change (\$M)
Hydrogen Related Programs			
Renewable Energy Resources: Hydrogen Research	29.2	39.9	+10.7
Core Research and Development	14.4	19.3	+4.9
Technology Validation	10.3	15	+4.7
Analysis and Outreach	4.4	5.5	+1.1
Fossil Energy R&D: Clean Fuels Research	32.2	5	-27.2
Advanced Fuels Research	3.2	0	-3.2
Fuel Cell Related Programs			
Fossil Energy R&D: Distributed Generation Fuel Cells	58.1	47	-11.1
Advanced Research	4	3	-1
Fuel Cell Systems	13.5	10	-3.5
Vision 21 Hybrids	13.5	11.5	-2.0
Innovative System Concepts	27.1	22.5	- 4.6
Energy Conservation: Transportation Sector	252.7	222.7	-30.0
Fuel Cell R&D	41.9	50	+8.1
Related programs			
Hybrid Systems R&D	46.6	42.6	-4.0
Cooperative Automotive Research for Advanced Technologies	0.5	1	+0.5
Electric Vehicles R&D	7	3.5	-3.5
Heavy Vehicle Systems R&D	9.9	11.5	+1.6
Power Technologies - Distributed Energy Resources	63.8	63.9	.1
<i>Fuel Cells in Buildings</i>	5.5.	7.5	+2
Ttotal DOE Fuel Cell Request (preliminary)		104.5	

Including Hydrogen
Programs

149.4

Energy FY 03 Budget

Description

The hydrogen research program seeks to develop ways to make hydrogen a competitive fuel. The increase in the hydrogen research program reflects an emphasis on engineering storage technologies, technology validation for wind/reversible fuel cells, the initiation of the Hydrogen Energy Development Initiative and increased outreach to certify technicians.

The Fuels program, under the Coal Research Initiative, will examine ways to produce fuels such as hydrogen from coal. The decrease reflects the demise of activities in the Solid Fuel and Feedstocks and Advanced Fuels Research programs.

Shifting funding to energy efficiency

Reducing levels of research: Advanced Research (-\$1M), Fuel Cell Systems (-\$3.5M), Vision 21 Hybrids (-\$2M) and Innovative Systems Concepts (-\$4.6M)

Completed successful carbonate/solid oxide development efforts

Emphasis shifts to fuel cell/turbine hybrids and ultra low-cost solid state modules

The Transportation component of conservation research partners with state and non-government entities to support the use of advanced vehicle technologies and fuels. The decrease reflects reduced funding for vehicle technologies, fuels and materials R&D and the elimination of the Energy Efficiency Science Initiative and Cooperative Programs with States. **The Freedom CAR program funding request (\$150 million in all) includes a portion of the funding for this sector and a portion (\$25 million) of hydrogen program funding.**

