| (\$ in thousands) | FY 2009 Congressional | FY 2009 House | FY 2009 Senate | FY 2009 Omnibus |
|---|--------------------------|------------------|-------------------|--------------------|
| , | Request | Marks | Marks | 3/11/2009 |
| FOSSIL ENERGY R&D | - 1 | | | |
| Coal | 623,732 | 681,600 | 644,432 | 692,410 |
| Natural Gas Technologies | 0 | 25,000 | 20,000 | 20,000 |
| Petroleum - Oil Technology | 0 | 3,000 | 5,000 | 5,000 |
| Oil and Gas Security | 0 | 0 | 0 | 0 |
| Program Direction | 126,252 | 126,252 | 152,804 | 152,000 |
| Plant & Capital Equipment | 5,000 | 5,000 | 17,748 | 18,000 |
| Environmental Restoration | 9,700 | 9,700 | 9,700 | 9,700 |
| Cooperative Res. & Development | 0 | 0 | 5,000 | 5,000 |
| Congressional Directed Priorities | 0 | 14,080 | 32,700 | 43,864 |
| Special Recruitment Program | 656 | 656 | 656 | 656 |
| Subtotal | 765,340 | 865,288 | 888,040 | 946,630 |
| Use of prior year balances | -11,310 | -11,310 | -11,310 | -70,310 |
| TOTAL FOSSIL ENERGY R&D | 754,030 | 853,978 | 876,730 | 876,320 |
| CLEAN COAL TECHNOLOGY*** | 0 | 0 | 0 | 0 |
| ULTRA-DEEPWATER AND UNCOVENTIONAL NATURAL GAS AND OTHER PETROLEUM RESEARCH FUND | 0 | 0 | 0 | 0 |
| | | | | |
| STRATEGIC PETROLEUM RESERVE | | | | |
| Facilities Expansion | 171,400 | 0 | 31,507 | 31,507 |
| Facilities Development | 175,523 | 175,523 | 173,493 | 173,493 |
| NORTHEAST HOME HEATING OIL RESERVE | 9,800 | 9,800 | 9,800 | 9,800 |
| SPR PETROLEUM ACCOUNT | 0 | 0 | 0 | 0 |
| Use of offsetting receipts | 0.000 | 0.000 | 0 | • |
| Use of prior year balances | -2,923 | -2,923 | 0 | 244 200 |
| Total Strategic Petrol. Res. | 353,800 | 182,400 | 214,800 | 214,800 |
| NAVAL PET. & OIL SHALE RESERVES | | | | |
| Total NPR & Oil Shale Reserves | 19,099 | 19,099 | 19,099 | 19,099 |
| Total 14 TC & Oil Chale TCGG1700 | 10,000 | 10,000 | 10,000 | 10,000 |
| ELK HILLS SCHOOL LANDS FUNDS | 0 | 0 | 0 | 0 |
| TOTAL FOSSIL ENERGY PROG. * Language appeal | 1,126,929 | 1,055,477 | 1,110,629 | 1,110,219 |

* Language appeal

CDP = CONGRESSIONALLY DIRECTED PROJECT
Green = Within Funds

Blue = Over funds

| (\$ in thousands) | FY 2009 Congressional Request | FY 2009 House Marks | FY 2009 Senate Marks | FY 2009 Omnibus 3/11/2009 |
|--|--|--|---|--|
| CLEAN COAL POWER INITIATIVE | 85,000 | 0 | 232,300 | 288,174 |
| FUTUREGEN | 156,000 | 0 | 0 | 0 |
| Carbon Capture Demonstration Initiative | 0 | 241,000 | 0 | 0 |
| FUELS AND POWER SYSTEMS Innovations for Existing Plants Advanced Integrated Gasification Combined Cycle Advanced Turbines Carbon Sequestration Fuels Fuel Cells Advanced Research U.S./China Energy and Environmental Center Subtotal, Fuels and Power Systems | 40,000 69,000 28,000 149,132 10,000 60,000 26,600 0 | 40,000 60,000 24,000 220,000 10,000 60,000 26,600 0 | 50,000 63,000 30,000 149,132 30,000 60,000 30,000 0 412,132 | 50,000 65,236 28,000 150,000 25,000 58,000 28,000 0 |
| TOTAL COAL | 623,732 | 681,600 | 644,432 | 692,410 |
| NATURAL GAS TECHNOLOGIES | 0 | 25,000 | 20,000 | 20,000 |
| PETROLEUM - OIL TECHNOLOGY | 0 | 3,000 | 5,000 | 5,000 |
| OIL AND GAS SECURITY | 0 | 0 | 0 | 0 |
| PROGRAM DIRECTION Indirect Program Direction NETL Direct Program Direction Alaska Natural Gas Transportation Project Imports/Export Authorization Advanced Metallurgical Research Subtotal, Fossil Energy R&D Program Direction | 100,607 23,780 0 1,865 0 | 100,607 23,780 0 1,865 0 | 123,817 27,122 0 1,865 0 | 122,830 27,251 0 1,919 0 |
| PLANT & CAPITAL EQUIPMENT | 5,000 | 5,000 | 17,748 | 18,000 |
| ENVIRONMENTAL RESTORATION | 9,700 | 9,700 | 9,700 | 9,700 |
| COOPERATIVE RES. & DEVELOPMENT | 0 | 0 | 5,000 | 5,000 |
| CONGRESSIONALLY DIRECTED PRIORITIES | 0 | 14,080 | 32,700 | 43,864 |
| SPECIAL RECRUITMENT PROGRAMS | 656 | 656 | 656 | 656 |
| USE OF PRIOR YEAR BALANCES | -11,310 | -11,310 | -11,310 | -70,310 |
| TOTAL FOSSIL ENERGY R&D | 754,030 | 853,978 | 876,730 | 876,320 |

| (\$ in thousands) | FY 2009 Congressional Request | FY 2009 House Marks | FY 2009 Senate Marks | FY 2009 Omnibus 3/11/2009 |
|---|-------------------------------------|---------------------------|----------------------------|---------------------------------|
| CLEAN COAL POWER INITIATIVE | 85,000 | 0 | 232,300 | 288,174 |
| <u>FUTUREGEN</u> | 156,000 | 0 | 0 | 0 |
| Carbon Capture Demonstration Initiative | 0 | 241,000 | 0 | 0 |
| FUELS AND POWER SYSTEMS INNOVATIONS FOR EXISTING PLANTS | | | | |
| CO2 Carbon Capture and Storage | 40,000 | 40,000 | 33,000 | 33,000 |
| Fine Particulate Control/Air Toxics | 0 | 0 | 5,000 | 5,000 |
| National Labs -Competitive | 0 | 0 | -, | -, |
| By-Products and Water Management | 0 | 0 | 12,000 | 12,000 |
| Subtotal Innovations for Existing Plants | 40,000 | 40,000 | 50,000 | 50,000 |
| Congressionally Directed Projects - Innovations for Existing Plants | | | | |
| CDP: Powerspan Electro Catalytic Oxidation Project CDP: Coal-Waste Slurry Reburn Project CDP: Hardin Generating Station CoalFired PowerPlant Mercury Emission Control Demo Project (MT) Total Congressionally Directed Projects - Innovations for | 0 | | | |
| Existing Plants | +0 | | | |
| Total Innovations for Existing Plants | 40,000 | 40,000 | 50,000 | 50,000 |
| Total Illifovations for Existing Flants | 40,000 | 40,000 | 50,000 | 50,000 |
| ADVANCED INTEGRATED GASIFICATION COMBINED CYCLE | | | | |
| Gasification Systems Technology | 64,000 | | 58,000 | 60,436 |
| Systems Analysis/Product Integration Vision 21 Total Advanced Integrated Gasification | 5,000 | | 5,000 | 4,800 |
| Combined Cycle | 69,000 | 60,000 | 63,000 | 65,236 |

| ADVANCED TURBINES | (\$ in thousands) | FY 2009 Congressional | FY 2009 House | FY 2009 Senate | FY 2009 Omnibus |
|--|---|--------------------------|------------------|-------------------|--------------------|
| Hydrogen Turbines | | Request | Marks | Marks | 3/11/2009 |
| Hydrogen Turbines | ADVANCED TURRINES | | | | |
| Subtotal Advanced Turbines Congressionally Directed Projects - Advanced Turbin SCDP: Ramgen Engine Development Total Turbines CARBON SEQUESTRATION Greenhouse Gas Control Focus Area for Carbon Sequestration Science Center for Zero Emissions Research and Technology Subtotal Carbon Sequestration Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Carbon Sequestration Total Carbon Sequestration 149,132 220,000 149,132 150,00 Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestra Total Carbon Sequestration 149,132 220,000 149,132 150,00 FUELS Hydrogen from Coal Research Hydrogen from Coal Research Hydrogen from Coal Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research 10,000 10,000 30,000 25,0 Congressionally Directed Projects - Fuels CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology | | 28 000 | 24 000 | 30,000 | 28,000 |
| Total Turbines CARBON SEQUESTRATION Greenhouse Gas Control Focus Area for Carbon Sequestration Science Center for Zero Emissions Research and Technology Subtotal Carbon Sequestration Congressionally Directed Projects CDP: Unit Congressional Directed Projects - Carbon Sequestration Total Carbon Sequestration Total Carbon Sequestration Total Carbon Sequestration FUELS Hydrogen from Coal Research Hydrogen from Coal Research COngressionally Directed Projects - Carbon Sequestri Total Carbon Sequestration FUELS COBJECTION COAL Research Hydrogen from Coal Research Hydrogen from Coal Research COBJECTION COAL Research Hydrogen from Coal Research COBJECTION COAL Research Total Carbon Sequestration FUELS Hydrogen from Coal Research Hydrogen from Coal Research COBJECTION COAL Research COP: Center for Advanced Separation Technologies CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Cightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syrigas Project CDP: ITM/Syrigas Project CDP: National Center for Hydrogen Technology O | | -, | , | , | 28,000 |
| Total Turbines 28,000 24,000 30,000 28,000 CARBON SEQUESTRATION Greenhouse Gas Control Focus Area for Carbon Sequestration Science Center for Zero Emissions Research and Technology Subtotal Carbon Sequestration Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Carbon Sequestration Total Carbon Sequestration Total Carbon Sequestration Total Carbon Sequestration FUELS Hydrogen from Coal Research Hydrogen from Coal Research Hydrogen from Coal Research CDP: Center for Advanced Separation Technologies CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Caal Derived Carbon Projects CDP: WVU Caal Liquefaction Study in China CDP: WVU Caal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology O | | , | , | | , |
| Total Turbines 28,000 24,000 30,000 28,000 24,000 30,000 28,000 24,000 30,000 28,000 24,000 30,000 28,000 24,000 30,000 28,000 24,000 30,000 28,000 24,000 30,000 28,000 24,000 30,000 28,000 24,000 30 | | | | | |
| CARBON SEQUESTRATION Greenhouse Gas Control Focus Area for Carbon Sequestration Science Center for Zero Emissions Research and Technology Subtotal Carbon Sequestration Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestri Total Carbon Sequestration Total Carbon Sequestra | CDP: Ramgen Engine Development | 0 | | | |
| CARBON SEQUESTRATION Greenhouse Gas Control Focus Area for Carbon Sequestration Science Center for Zero Emissions Research and Technology Subtotal Carbon Sequestration Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestri Total Carbon Sequestration Total Carbon Sequestration Total Carbon Sequestration 149,132 220,000 149,132 150,0 Total Carbon Sequestration 149,132 220,000 149,132 150,0 Total Carbon Sequestration 149,132 220,000 149,132 150,0 Total Carbon Sequestration 10,000 10,000 30,000 25,0 Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology CDP: VVI Coal Liquefaction Study in China CDP: National Center for Hydrogen Technology CDP: National Center for Hydrogen Technology CDP: VVI Coal Liquefaction Study in China CDP: WVI Coal Liquefaction Study in China CDP: National Center for Hydrogen Technology CDP: VVI Coal Liquefaction Study in China CDP: WVI Coal Liquefaction Study in China CDP: WVI Coal Liquefaction Study in China CDP: VVI Coal Liquefaction Study in | Total Turbines | 28 000 | 24 000 | 30,000 | 28,000 |
| Greenhouse Gas Control Focus Area for Carbon Sequestration Science Center for Zero Emissions Research and Technology Subtotal Carbon Sequestration Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Carbon Sequestration Total Carbon Sequestration Total Carbon Sequestration FUELS Hydrogen from Coal Research Hydrogen from Coal Research Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: National Center for Hydrogen Technology 141,997 7,135 7,135 14,07 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 141,997 7,135 144,997 7,135 144,997 7,135 144,997 7,135 144,997 7,135 144,997 7,135 144,997 7,135 144,997 7,135 144,997 7,135 14,090 149,132 150,00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Total Turbines | 20,000 | 24,000 | 30,000 | 20,000 |
| Focus Area for Carbon Sequestration Science Center for Zero Emissions Research and Technology Subtotal Carbon Sequestration Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestra Total Carbon Sequestration Total Carbon Sequestration FUELS Hydrogen from Coal Research Hydrogen from Coal Research Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research CDP: Center for Advanced Separation Technologies CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology CDP: National Center for Hyd | CARBON SEQUESTRATION | | | | |
| Center for Zero Emissions Research and Technology Subtotal Carbon Sequestration 149,132 220,000 149,132 150,0 Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestra Total Carbon Sequestration 149,132 220,000 149,132 150,0 Total Carbon Sequestration 149,132 220,000 149,132 150,0 Total Carbon Sequestration 149,132 220,000 149,132 150,0 Total Carbon Sequestration 10,000 10,000 30,000 20,0 Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research 10,000 10,000 30,000 25,0 Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 0 0 0 0 0 0 0 0 0 0 | Greenhouse Gas Control | | | 141,997 | 136,000 |
| Subtotal Carbon Sequestration Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestri Total Carbon Sequestration FUELS Hydrogen from Coal Research Hydrogen from Coal Research Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology CDP: National Cente | | 7,135 | | 7,135 | 14,000 |
| Congressionally Directed Projects CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestri Total Carbon Sequestration FUELS Hydrogen from Coal Research Hydrogen from Coal Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: National Center for Hydrogen Technology CDP: Time Year Carbon Project CDP: National Center for Hydrogen Technology CDP: Na | | 110 100 | | 110 100 | 150.000 |
| CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestri Total Carbon Sequestration 149,132 220,000 149,132 150,0 FUELS Hydrogen from Coal Research Hydrogen from Coal Research Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 0 0 0 0 0 0 0 0 0 0 | Subtotal Carbon Sequestration | 149,132 | 220,000 | 149,132 | 150,000 |
| CDP: Jupiter Oxy Fuel Technology CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestri Total Carbon Sequestration 149,132 220,000 149,132 150,0 FUELS Hydrogen from Coal Research Hydrogen from Coal Research Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 0 0 0 0 0 0 0 0 0 0 | Congressionally Directed Projects | | | | |
| CDP: Utah Center for Ultra-Clean Coal Utilization Total Congressional Directed Projects - Carbon Sequestri Total Carbon Sequestration 149,132 220,000 149,132 150,0 FUELS Hydrogen from Coal Research Hydrogen from Coal Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 0 | | | |
| Total Carbon Sequestration FUELS Hydrogen from Coal Research Hydrogen from Coal Research Hydrogen from Coal Research Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 149,132 150,0 10,000 10,000 30,000 25,0 10,000 10,000 30,000 25,0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 0 | 0 | |
| FUELS Hydrogen from Coal Research Hydrogen from Coal Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 | Total Congressional Directed Projects - Carbon Sequestr | 0 | | | |
| FUELS Hydrogen from Coal Research Hydrogen from Coal Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITIM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 | | | | | |
| Hydrogen from Coal Research Hydrogen from Coal Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 10,000 10,000 20,6 5,1 10,000 10,000 30,000 25,6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Total Carbon Sequestration | 149,132 | 220,000 | 149,132 | 150,000 |
| Hydrogen from Coal Research Hydrogen from Coal Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 10,000 10,000 20,6 5,1 10,000 10,000 30,000 25,6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ELIELS | | | | |
| Hydrogen from Coal Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 20,0 5,0 5,0 5,0 6 6 7 7 8 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | | 10 000 | 10 000 | 30 000 | |
| Coal and Coal-Biomass to Liquids Subtotal Hydrogen from Coal Research Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 5,0 30,000 30,000 25,0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 10,000 | 10,000 | 00,000 | 20,000 |
| Congressionally Directed Projects - Fuels CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 0 | | | | | 5,000 |
| CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 0 | Subtotal Hydrogen from Coal Research | 10,000 | 10,000 | 30,000 | 25,000 |
| CDP: Center for Advanced Separation Technologies CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 0 | | | | | |
| CDP: Continuous Solvent Extraction Processes for Coal Derived Carbon Projects 0 CDP: WVU Coal Liquefaction Study in China 0 CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project 0 CDP: ITM/Syngas Project 0 CDP: National Center for Hydrogen Technology 0 0 0 | | | | | |
| Coal Derived Carbon Projects CDP: WVU Coal Liquefaction Study in China CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project CDP: ITM/Syngas Project CDP: National Center for Hydrogen Technology 0 0 0 0 | | 0 | | | |
| CDP: WVU Coal Liquefaction Study in China 0 CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project 0 CDP: ITM/Syngas Project 0 CDP: National Center for Hydrogen Technology 0 0 0 | | 0 | | | |
| CDP: WVU Lightweight Composite Materials for Heavy Duty Vehicles Project 0 CDP: ITM/Syngas Project 0 CDP: National Center for Hydrogen Technology 0 0 0 | | | | | |
| CDP: İTM/Syngas Project 0 CDP: National Center for Hydrogen Technology 0 0 0 | CDP: WVU Lightweight Composite Materials for | | | | |
| CDP: National Center for Hydrogen Technology 0 0 0 | | | | | |
| | | _ | | _ | |
| rotal Congressional Directed Projects - Fuels | | | | | 0 |
| | rotal Congressional Directed Projects - Fuels | | U | U | o l |
| Total Fuels 10,000 10,000 30,000 25,0 | Total Fuels | 10,000 | 10,000 | 30,000 | 25,000 |
| 1, | | 12,000 | 12,200 | 22,000 | _5,500 |

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| | FY 2009 | FY 2009 | FY 2009 | FY 2009 |
|--|---------------|---------|---------|-----------|
| (\$ in thousands) | Congressional | House | Senate | Omnibus |
| (4 | Request | Marks | Marks | 3/11/2009 |
| FUEL CELLS | Hoquoot | | | 02000 |
| Innovative Systems Concepts/SECA | 60.000 | 60.000 | 60.000 | 58,000 |
| Subtotal Fuel Cells | 60,000 | 60,000 | 60,000 | 58,000 |
| | | • | • | • |
| Congressionally Directed Projects - Fuel Cells | | | | |
| CDP: MW-Scale Oxide Fuel Cell Gas Turbine | | | | |
| Hybrid System | 0 | | | |
| CDP: MW-Scale Solid Oxide Fuel Cell Stat. | | | | |
| Power Generation | 0 | | | |
| CDP: Solid Oxide Fuel Cell Tec. Stat Power | | | | |
| Applications Project | 0 | | | |
| CDP: Solid Oxide Fuel Cells | | | | |
| CDP: High Temperature Electrochemistry Center (MT) | | | | |
| Total Congressional Directed Projects - Fuel Cells | 0 | 0 | 0 | |
| Total Fuel Cells | 60,000 | 60,000 | 60,000 | 58,000 |
| | 55,555 | 00,000 | 55,555 | 00,000 |
| ADVANCED RESEARCH | | | | |
| Coal Utilization Science (CUS) | 0 | 0 | 0 | |
| CUS - Sensors and Controls - Novel Innovations | 8,269 | 8,269 | 8,157 | 8,500 |
| CUS - Computational System Dynamics | 2,956 | 2,956 | 2,409 | 2,413 |
| Total, Coal Utilization Science | 11,225 | 11,225 | 10,566 | 10,913 |
| High Performance Materials | 7,010 | 7,010 | 8,566 | 7,735 |
| Coal Technology Export | 720 | 720 | 620 | 750 |
| Bioprocessing of Coal | 0 | 0 | 0 | 0 |
| Environmental Activities | 700 | 700 | 600 | 700 |
| Technical & Econ. Analyses | 900 | 900 | 800 | 900 |
| International Prog. Support | 706 | 706 | 700 | 776 |
| Focus Area for Computational Energy Science | 2,113 | 2,113 | 5,000 | 3,000 |
| University Coal Research | 2,413 | 2,413 | 2,366 | 2,413 |
| HBCUs, Education & Training | 813 | 813 | 782 | 813 |
| LNG Report | 0 | 0 | 0 | 0 |
| Modeling and Simulation Subtotal Advanced Research | Ö | 0 | 30.000 | 28.000 |
| Subtotal Advanced Research | 26,600 | 26,600 | 30,000 | ∠8,000 |

| (\$ in thousands) | FY 2009 Congressional | FY 2009 House | FY 2009 Senate | FY 2009 Omnibus |
|---|--------------------------|------------------|-------------------|--------------------|
| (* | Request | Marks | Marks | 3/11/2009 |
| | | | | |
| Congressionally Directed Projects | | | | |
| CDP: Carbon Sequestration Study (OH) | 0 | | | |
| CDP: Center for Instrumented Critical | | | | |
| Infrastuructures (PA) | 0 | | | |
| CDP: Center for Zero Emissions Technology, | | | | |
| Montana State University, Clean Coal CDP: Coal Fuels Alliance (KY) | 0 | | | |
| CDP: Direct Carbon Fuel Cell Prototype (CA) | 0 | | | |
| CDP: Eastern Illinois University Power Plant (IL) | O | | | |
| CDP: Fuel Research and Development at | | | | |
| Northern Illinois University (IL) | 0 | | | |
| CDP: ITM Reaction-Driven Ceramic Membrane | ŭ | | | |
| Systems (PA | 0 | | | |
| CDP: Jupiter Oxy Fuel Technology Project | 0 | | | |
| CDP: NE Ohio Carbon Sequestration Pipeline | Ŭ | | | |
| Scoping Study (OH) | 0 | | | |
| CDP: Ohio River Clean Fuels CO2 Production & | · · | | | |
| Emissions Study (OH) | 0 | | | |
| CDP: Stripper Well Consortium (PA) | 0 | | | |
| CDP: The Gulf Petro Initiative (LA) | 0 | | | |
| CDP: Jupiter Oxy Fuel Technology | Ö | | | |
| CDP: New York City Parks Randall's Island | 0 | | | |
| CDP: Power Plant Flue Gas Cleaning/Pollution | _ | | | |
| Elimination Project | 0 | | | |
| CDP: GEDAC Packaged Gas Engine-Driven | | | | |
| Heat Pump | 0 | | | |
| CDP: Planar Solid Oxide Fuel Cell Project | 0 | | | |
| CDP: UNDEERC | 0 | | | |
| CDP: WVU Lightweight Composite Materials for | | | | |
| for Heavy Duty Vehicles Project | 0 | | | |
| CDP: Coal to Liquids Program - Phase II | 0 | | | |
| CDP: Arctic Energy Office | 0 | | | |
| CDP: National Biofuel Energy Laboratory | 0 | | | |
| Total Congressional Directed Projects - Adv. Research | 0 | | | |
| Total Advanced Research | 26,600 | 26,600 | 30,000 | 28,000 |
| U.S./CHINA ENERGY AND ENVIRONMENTAL CENTER | o | 0 | 0 | |
| TOTAL FLIELS AND DOWED SYSTEMS | 202 722 | 440.000 | 440.400 | 404 220 |
| TOTAL FUELS AND POWER SYSTEMS | 382,732 | 440,600 | 412,132 | 404,236 |
| NATURAL GAS TECHNOLOGIES | | | | |
| Gas Hydrates | 0 | 25,000 | 15,000 | 15,000 |
| Gas Hydrates | 0 | 25,000 | 15,000 | 15,000 |
| | | | 0 | |
| Effective Environmental Protection | 0 | 0 | 5,000 | 5,000 |
| Environmental Science | 0 | 0 | 0 | 5,000 |
| Produced Water | 0 | 0 | 5,000 | 0 |
| | ı İ | | | J |

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| - | FY 2009 | FY 2009 | FY 2009 | FY 2009 |
|---|---------------|---------|---------|-----------|
| (\$ in thousands) | Congressional | House | Senate | Omnibus |
| | Request | Marks | Marks | 3/11/2009 |
| Congressionally Directed Projects | 0 | | | |
| CDP: Arctic Energy Office - Gas Hydrates | 0 | | | |
| CDP: Arctic Energy Office - Envir. Protection CDP: Univ.of Mississippi Hydrates Research | 0 | | | |
| CDP: Univ. of Wyoming Multi-Disciplinary Coal-bed | U | | | |
| Natural Gas Research Center | 0 | | | |
| | | | | |
| TOTAL NATURAL GAS TECHNOLOGIES | 0 | 25,000 | 20,000 | 20,000 |
| PETROLEUM - OIL TECHNOLOGY | | | | |
| Exploration and Production | 0 | 3,000 | 5,000 | 5,000 |
| Conclude Program | 0 | | | |
| Stripper Well Consortium | 0 | 1,000 | 1,000 | 0 |
| Risk Base Data Management System | 0 | 2,000 | 1,200 | 2,000 |
| Unconventional and Enhanced Oil Recovery | 0 | | 2,800 | 3,000 |
| Congressionally Directed Projects | О | o | 0 | 0 |
| CDP: Risk Based Data Management System | O | | Ī | _ |
| CDP: Utah Center Heavy Oil Research | 0 | | | |
| TOTAL OIL TECHNOLOGY | 0 | 3,000 | 5,000 | 5,000 |
| OIL AND GAS SECURITY | | | | |
| Methane Hydrates | 0 | | | |
| LNG Safety | Ĭ | | | |
| CO2 EOR | | | | |
| Analysis and International | 0 | | | |
| TOTAL OIL AND GAS SECURITY | 0 | | | 0 |
| PROGRAM DIRECTION | | | | |
| | | | | |
| INDIRECT PROGRAM DIRECTION Research and Development | | | | |
| Hdgtrs. Program Direction | 28,895 | 28,895 | 28,885 | 29,026 |
| Salaries & Benefits | 17,885 | 17,885 | 17,708 | 17,885 |
| Travel | 750 | 750 | 1,000 | 750 |
| Contract Services | 10,260 | 10,260 | 10,177 | 10,391 |
| Technical and Management Support Services | 4,200 | 4,200 | 4,142 | 4,355 |
| Computer Systems and Support | 1,031 | 1,031 | 1,031 | 1,031 |
| E-Government Initiatives | 104 | 104 | 104 | 80 |
| Working Capital Fund | 4,925 | 4,925 | 4,900 | 4,925 |
| Field Program Direction | 71,712 | 71,712 | 94,932 | 93,804 |
| Salaries & Benefits | 41,941 | 41,941 | 43,600 | 42,749 |
| Travel | 1,512 | 1,512 | 1,600 | 1,545 |
| Contract Services Technical and Management Support Services | 28,259 | 28,259 | 49,732 | 49,510 |
| recrimical and ividiagement Support Services | 20,259 | 20,239 | 43,732 | 43,310 |

| (\$ in thousands) | FY 2009 Congressional | | FY 2009 Senate | FY 2009 Omnibus |
|---|--------------------------|---------|-------------------|--------------------|
| | Request | Marks | Marks | 3/11/2009 |
| Clean Coal Technology | | | | |
| Hdgtrs. Program Direction | 0 | 0 | 0 | 0 |
| Salaries & Benefits | 0 | 0 | 0 | 0 |
| Travel | 0 | 0 | 0 | ő |
| Contract Services | | ŭ | ŭ | · · |
| Technical and Management Support Services | 0 | 0 | 0 | 0 |
| 3 | | - | - | _ |
| Field Program Direction | 0 | 0 | 0 | 0 |
| Salaries & Benefits | 0 | 0 | 0 | 0 |
| Travel | 0 | 0 | 0 | 0 |
| Contract Services | | | | |
| Technical and Management Support Services | 0 | 0 | 0 | 0 |
| Total Headquarters Indirect Program Direction | 28,895 | 28,895 | 28,885 | 29,026 |
| Salaries & Benefits | 17,885 | 17,885 | 17,708 | 17,885 |
| Travel | 750 | 750 | 1,000 | 750 |
| Contract Services | 10,260 | 10,260 | 10,177 | 10,391 |
| Technical and Management Support Services | 4,200 | 4,200 | 4,142 | 4,355 |
| Computer Systems and Support | 1,031 | 1,031 | 1,031 | 1,031 |
| Government-Wide E-Government Initiatives | 104 | 104 | 104 | 80 |
| Working Capital Fund | 4,925 | 4,925 | 4,900 | 4,925 |
| Total Field Indirect Program Direction | 71,712 | 71,712 | 94,932 | 93,804 |
| Salaries & Benefits | 41,941 | 41,941 | 43,600 | 42,749 |
| Travel | 1,512 | 1,512 | 1,600 | 1,545 |
| Contract Services | | | | |
| Technical and Management Support Services | 28,259 | 28,259 | 49,732 | 49,510 |
| TOTAL INDIRECT PROGRAM DIRECTION | 100,607 | 100,607 | 123,817 | 122,830 |
| | | l l | | Į. |

| (\$ in thousands) | FY 2009 Congressional | FY 2009 House | FY 2009 Senate | FY 2009 Omnibus |
|--|--------------------------|------------------|-------------------|--------------------|
| (+) | Request | Marks | Marks | 3/11/2009 |
| NETL DIRECT PROGRAM DIRECTION | | | | |
| Coal R&D Direct Program Direction | 23,780 | 23,780 | 27,122 | 27,251 |
| Salaries & Benefits | 19,854 | 19,854 | 22,260 | 22,204 |
| Travel | 515 | 515 | 550 | 571 |
| Contract Services | 0.444 | 0.444 | 4.040 | 4 470 |
| Technical and Management Support Services | 3,411 | 3,411 | 4,312 | 4,476 |
| Oil and Gas R&D Direct Program Direction | 0 | 0 | o | 0 |
| Salaries & Benefits | 0 | 0 | 0 | 0 |
| Travel | 0 | 0 | 0 | 0 |
| Contract Services | | | | |
| Technical and Management Support Services | 0 | 0 | 0 | 0 |
| TOTAL NETL DIRECT PROGRAM DIRECTION | 23,780 | 23,780 | 27,122 | 27,251 |
| ALASKA NATURAL GAS TRANSPORTATION PROJECT | | | | |
| Federal Coordinator for Alaska Natural Gas | | | | |
| Transportation Project - Direct | | | | |
| Hdqtrs. Program Direction | 0 | 0 | 0 | 0 |
| Salaries & Benefits | 0 | 0 | 0 | 0 |
| Travel | 0 | 0 | 0 | 0 |
| Contract Services | | | | |
| Technical and Management Support Services | 0 | 0 | 0 | 0 |
| Loan Guarantee for Alaska Natural Gas | | | | |
| Transportation Project - Direct | | | | |
| Hdqtrs. Program Direction | 0 | 0 | 0 | 0 |
| Salaries & Benefits Travel | 0 | 0 | 0 | 0 |
| Contract Services | U | U | ٥ | U |
| Technical and Management Support Services | 0 | 0 | 0 | 0 |
| | | | | |
| TOTAL ALASKA NATURAL GAS TRANSPORTATION | | _ | _ | اء |
| PROJECT | 0 | 0 | 0 | 0 |
| IMPORT/EXPORT AUTHORIZATION | | | | |
| Salaries & Benefits | 1,322 | 1,322 | 1,322 | 1,360 |
| Travel | 20 | 20 | 20 | 21 |
| Contract Services | | | | |
| Technical and Management Support Services | 523 | 523 | 523 | 538 |
| TOTAL IMPORT/EXPORT AUTHORIZATION | 1,865 | 1,865 | 1,865 | 1,919 |
| | I | | l | l |

| (\$ in thousands) | FY 2009 Congressional | FY 2009 House | FY 2009 Senate | FY 2009 Omnibus |
|--|--------------------------|---------------------|---------------------|--------------------|
| (\$ III tilousalius) | Request | Marks | Marks | 3/11/2009 |
| ADVANCED METALLURGICAL RESEARCH | Roquest | Marko | marko | 0/11/2000 |
| Salaries & Benefits | 0 | 0 | 0 | 0 |
| Travel | 0 | 0 | 0 | 0 |
| Contract Services | 0 | 0 | o | 0 |
| Technical and Management Support Services | U | 0 | U | 0 |
| TOTAL ADVANCED METALLURGICAL RESEARCH | 0 | 0 | 0 | 0 |
| TOTAL PROGRAM DIRECTION | | | | |
| Total Headquarters Program Direction | 30,760 | 30,760 | 30.750 | 30,945 |
| Salaries & Benefits | 19,207 | 19,207 | 19,030 | 19,245 |
| Travel | 770 | 770 | 1,020 | 771 |
| Contract Services | 10,783 | 10,783 | 10,700 | 10,929 |
| Technical and Management Support Services Computer Systems and Support | 4,723 1,031 | 4,723 1,031 | 4,665 1,031 | 4,893 1,031 |
| Government-Wide E-Government Initiatives | 1,031 | 1,031 | 1,031 | 80 |
| Working Capital Fund | 4,925 | 4,925 | 4,900 | 4,925 |
| Total Field Program Direction | 95,492 | 95,492 | 122,054 | 121,055 |
| Salaries & Benefits | 61,795 | 61,795 | 65,860 | 64,953 |
| Travel | 2,027 | 2,027 | 2,150 | 2,116 |
| Contract Services Technical and Management Support Services | 31,670 | 31,670 | 54,044 | 53,986 |
| TOTAL FOSSIL R&D PROGRAM DIRECTION | 126,252 | 126,252 | 152,804 | 152,000 |
| | , , | ., | ,,,,, | , , , , , , |
| PLANT AND CAPITAL EQUIPMENT Construction | 5,000 | 5.000 | 17,748 | 18,000 |
| GPP at NETL and ARC | 5,000 | 5,000 5,000 | 17,748 | 18,000 |
| NETL Office/Lab Building | 0,000 | 0,000 | 0 | 0 |
| TOTAL PLANT AND CAPITAL EQUIPMENT | 5,000 | 5,000 | 17,748 | 18,000 |
| | | | | |
| ENVIRONMENTAL RESTORATION CERCLA Remedial Actions | 1 455 | 4 455 | 4 455 | 1.155 |
| Rock Springs Sites | 1,155 600 | 1,155 600 | 1,155 600 | 1,155 600 |
| Hoe Creek Site | 250 | 250 | 250 | 250 |
| Hannah Sites Revegetation | 30 | 30 | 30 | 30 |
| NETL Preliminary Site Investigations | 40 | 40 | 40 | 40 |
| NETL Site Remediation | 10 | 10 | 10 | 10 |
| CERCLA PRP Response Activities | 225 | 225 | 225 | 225 |

| (\$ in thousands) | FY 2009 Congressional Request | FY 2009 House Marks | FY 2009 Senate Marks | FY 2009 Omnibus 3/11/2009 |
|---|--|--|--|--|
| RCRA Remedial Actions NETL On-Site Remediation Albany Research Center RCRA | 3,105 1,605 1,500 | 3,105 1,605 1,500 | 3,105 1,605 1,500 | 3,105 1,605 1,500 |
| Other ES&H Actions Other ES&H Actions ES&H Corrective Action at NPTO ES&H Corrective Action at ARC Program Support | 5,440 3,750 15 1,600 75 | 5,440 3,750 15 1,600 75 | 5,440 3,750 15 1,600 75 | 5,440 3,750 15 1,600 75 |
| TOTAL ENVIRONMENTAL RESTORATION | 9,700 | 9,700 | 9,700 | 9,700 |
| COOPERATIVE RES. & DEVELOPMENT | 0 | 0 | 5,000 | 5,000 |
| CONGRESSIONALLY DIRECTED PROJECTS CDP: Carbon Sequestration Study (OH) CDP: Center for Instrumented Critical Infrastuructures (PA) CDP: Center for Zero Emissions Technology, Montana State University, Clean Coal CDP: Coal Fuels Alliance (KY) CDP: Direct Carbon Fuel Cell Prototype (CA) CDP: Eastern Illinois University Power Plant (IL) CDP: Fuel Research and Development at Northern Illinois University (IL) CDP: ITM Reaction-Driven Ceramic Membrane | | 1,730 | 4,500 | 5,709 |
| Systems (PA) CDP: NE Ohio Carbon Sequestration Pipeline Scoping Study (OH) CDP: Ohio River Clean Fuels CO2 Production & Emissions Study (OH) CDP: Stripper Well Consortium (PA) CDP: The Gulf Petro Initiative (LA) CDP: Colorado School of Mines, Golden, CO., Colorado Center for Sustainable Energy at the Colorado School of Mines CDP: North Dakota Energy and Environmental Center, Grand Forks, ND, Fossil Fuel Cooperative | | 1,000 | 0 | 952 |
| Research & Development | | 0 | 4,000 | 3,806 |

| \$ in thousands) | FY 2009 Congressional Request | FY 2009 House Marks | FY 2009 Senate Marks | FY 2009 Omnibus 3/11/2009 |
|--|-------------------------------------|---------------------------|----------------------------|---------------------------------|
| CDP: Ramgen, Bellevue, WA, CO2 compression initiative utilizing shockwave/ramjet compression | | | | |
| technology | | | | |
| CDP: North Dakota Energy and Environmental | | | | |
| Center, Grand Forks, ND, National Center for | | | | |
| Hydrogen Technology | | 0 | 3,000 | 2,85 |
| CDP: West Virginia University, Advanced coal | | Ü | 3,000 | 2,00 |
| technology (liquefaction) in China | | 0 | 500 | |
| CDP: Interdisciplinary Clean Energy Program at | | Ŭ | 000 | |
| the University of Utah, Utah CDP: Shallow Carbon Sequestration Pilot | | | | |
| Demonstration, Missouri | | | | |
| CDP: Gulf of Mexico Hydrates Research | | | | |
| Consortium at the University of Mississippi, MS | | 1,200 | 1,200 | 1,14 |
| CDP: Membrane Technology for Produced Water | | | | |
| at Lea County, New Mexico | | | | |
| CDP: Carbon Sequestration Monitoring Activities, | | | | |
| Wyoming | | | | |
| CDP: Penn State University, Solid Oxide Fuel | | _ [| 0.00- | |
| Cells, Pennsylvania | | 0 | 2,000 | 1,90 |
| CDP: Arctic Energy Office, Alaska | | 0 | 6,000 | 3,80 |
| CDP: Center for Advanced Separation | | | | |
| Technologies, Virginia | | | | |
| CDP: Arrowhead Center at New Mexico Univ. to | | | | |
| Promote Prosperity and Public Welfare in NM | | | | |
| Through Economic Development (NM) | | 4 000 | 0 | 0 |
| CDP: Direct Methanol Fuel Cell (IN) | | 1,000 | 0 | 9. |
| CDP: Fuel Cell Tech for Clean Coal Power Plants | | 4.500 | | |
| (OH) | | 1,500 | 0 | 1,4 |
| CDP: Methanol Economy (CA) | | 2,000 | 0 | 1,9 |
| CDP: Multi-Pollutant Removal and Advanced Multi- | | | | |
| Pollutant Removal and Advanced Carbon Capture | | | | |
| and Storage Projects Using Eco Technology (OH) | | | | _ |
| | | 1,000 | 0 | 98 |
| CDP: Pilot Energy Cost Control Evaluation | | | _ | |
| (PECCE) Project (WV, PA, & IN) | | 2,476 | 0 | 2,3 |
| CDP: Redirection of FY 2008 Funding for Pilot | | | _ | |
| Energy Cost Control Evaluation (WV,PA, & IN) | | -1,476 | 0 | -1,4 |
| CDP: Rolls Royce Solid Oxide Fuel Cell Systems | | | | |
| Development (OH) | | 1,350 | 0 | 1,2 |
| CDP: University of Kentucky Strategic Liquid | | | | |
| Transportation Fuels Derived from Coal (KY) | | 1,000 | 0 | 1,38 |
| CDP: Wyoming CO2 Sequestration Testing | | | | |
| Program (WY) | | 900 | 0 | 8 |
| CDP: CO2 Capture/Sequestration Research, PSU | | 0 | 500 | 4 |
| CDP: Carbon Sequestration in a Deep Saline | | | | |
| Reservoir Xcel Energy (CO) | | 0 | 1,500 | 1,42 |
| CDP: Shale Oil Upgrading Utilizing Ionic | | | | |
| Conductive Membranes Ceramatec, Inc (UT) | | 0 | 1,000 | 2,18 |
| CDP: The Center for Advanced Separation | | | , | , |
| Technology, University of Kentucky, (KY) | | 0 | 3,000 | 2,8 |
| CDP: University of Kentucky Coal-Derived Low | | ŭ | 0,000 | 2,0 |
| Energy Materials for Sustainable Construction | | 0 | 1 000 | 0 |
| = · · · · · · · · | | 0 | 1,000 | 9. |
| CDP: Refining Capacity Study, NDAREC (ND) | | 0 | 500 | 4 |
| CDP: Utah Center for Ultra Clean Coal Utilization | | 2 | 4.000 | |
| & Heavy Oil Research (UT) | | 0 | 4,000 | 4,7 |
| CDP: Long Term Environmental and Economic | | | | |
| Impacts of the Development of a Coal Liquefaction | | | | |
| Sector in China, WVU | | | 0 | 4 |
| CDP: Versailles Borough Stray Gas Mitigation | | | | 3 |
| CDP: TBD | | 400 | 0 | |
| CONGRESSIONALLY DIRECTED PROJECTS | 0 | 14,080 | 32,700 | 43,8 |

| | FY 2009 | FY 2009 | FY 2009 | FY 2009 |
|--|---------------|----------|----------|-----------|
| (\$ in thousands) | Congressional | | Senate | Omnibus |
| ODEOLAL DEODLUTMENT DOODLAND | Request | Marks | Marks | 3/11/2009 |
| SPECIAL RECRUITMENT PROGRAMS | 656 | 656 | 656 | 656 |
| CLEAN COAL TECHNOLOGY | | | | |
| Deferral of unobligated balances, FY 2007 | 0 | 0 | 0 | 0 |
| Deferral of unobligated balances, FY 2008 | 0 | 0 | 0 | 0 |
| Deferral of unobligated balances, FY 2009 | 149,000 | 149,000 | 149,000 | 149,000 |
| Rescission, uncommitted balances | 0 | 0 | 0 | C |
| Transfer to Fossil R&D (FutureGen) | -149,000 | 0 | 0 | (|
| Transfer to Fossil R&D (Sequestration) | 0 | 0 | 0 | 440.000 |
| Transfer to Fossil R&D (CCPI) Transfer to Fossil R&D (CCDI) | 0 | -149,000 | -149,000 | -149,000 |
| Transfer to Fossil R&D (CCDI) Transfer to Fossil R&D (Fuel & Power Systems) | 0 | -149,000 | -149,000 | |
| Transier to rossii Nab (ruera rower Systems) | | 0 | 0 | |
| TOTAL CLEAN COAL TECH. | 0 | 0 | 0 | 0 |
| ULTRA-DEEPWATER AND UNCOVENTIONAL NATURAL | | | | |
| GAS AND OTHER PETROLEUM RESEARCH FUND | | | | |
| Ultra-Deepwater and Unconventional Natural Gas and | | | | |
| Other Petroleum Research Fund | 0 | | | |
| Receipts Ultra-Deepwater and Unconventional Natural | | | | |
| Gas and Other Petroleum Research Fund | 0 | | | |
| Repeal Ultra-Deepwater and Unconventional Natural Gas | | | | |
| and Other Petroleum Research Fund | 0 | | | |
| Repeal ReceiptsUltra-Deepwater and Unconventional | | | | |
| Natural Gas and Other Petroleum Research Fund | 0 | 0 | 0 | C |
| TOTAL ULTRA-DEEPWATER AND UNCONVENTIONAL NAT.GAS AND OTHER PETROLEUM RESEARCH FUND | 0 | 0 | 0 | O |
| NAT.GAS AND OTHER PETROLEUM RESEARCH FUND | | | | |
| STRATEGIC PETROLEUM RESERVE | | | | |
| SPR Facilities | | | | |
| Expansion | 169,710 | 0 | 31,507 | 31,507 |
| Management | 1,690 | 0 | 0 | 0 |
| Total Expansion | 171,400 | 0 | 31,507 | 31,507 |
| Non-Phase Specific | 156,699 | 156,699 | 154,669 | 154,669 |
| Management | 18,824 | 18,824 | 18,824 | 18,824 |
| Total Non-Phase Specific | 175,523 | 175,523 | 173,493 | 173,493 |
| Use of offsetting receipts | 0 | 0 | 0 | C |
| Use of prior year balances | -2,923 | -2,923 | 0 | C |
| Total Strategic Pet. Reserve | 344,000 | 172,600 | 205,000 | 205,000 |
| | | | | |

| (\$ in thousands) | FY 2009 Congressional Request | FY 2009 House Marks | FY 2009 Senate Marks | FY 2009 Omnibus 3/11/2009 |
|---|-------------------------------------|---------------------------|----------------------------|---------------------------------|
| NODTHE ACT HOME HEATING ON DECEDIE | | | | |
| NORTHEAST HOME HEATING OIL RESERVE Northeast Home Heating Oil Reserve | 9,800 | 9.800 | 9.800 | 9.800 |
| Transfer from balances | 9,800 | 9,800 | 9,800 | 9,800 |
| Offsetting receipts | 0 | 0 | 0 | ő |
| Subtotal, NHHOR (Program Level) | 9,800 | 9,800 | 9,800 | 9,800 |
| Use of prior-year balances | 0 | 0 | 0 | 0 |
| Use of offsetting receipts | 0 | 0 | 0 | 0 |
| Total Northeast Home Heating Oil Reserve | 9,800 | 9,800 | 9,800 | 9,800 |
| | | | | |
| SPR PETROLEUM ACCOUNT | | | | |
| SPR - Oil Acquisition and Drawdown Operations | 0 | 0 | 0 | 0 |
| TOTAL ODD DDG CD AM (New D/A) | 0 | 0 | 0 | 0 |
| TOTAL SPR PROGRAM (New B/A) | 353,800 | 182,400 | 214,800 | 214,800 |
| | | | | |
| NAVAL PETROLEUM RESERVES | | | | |
| Production and Operations | 8,185 | 8,185 | 8,185 | 8,185 |
| Management | 10,914 | 10,914 | 10,914 | 10,914 |
| Congressionally Directed Projects | 0 | 0 | 0 | 0 |
| Use of prior year funds TOTAL NP&OSR | 1 9,099 | 0 19,099 | 0 19,099 | 0 19,099 |
| TOTAL NP&USK | 19,099 | 19,099 | 19,099 | 19,099 |
| | | | | |
| ELK HILLS SCHOOL LANDS FUNDS | | | | |
| California teachers' pension fund payment | 0 | 0 | 0 | 0 |
| Advance Appropriation | 0 | 0 | 0 | 0 |
| TOTAL ELK HILLS SCHOOL LANDS FUNDS | 0 | 0 | 0 | 0 |