

American Recovery and Environmental Restoration

Meeting the Challenge

Progress and Accountability in Implementing the
American Recovery and Reinvestment Act
Office of Environmental Management

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EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure



Secretary Chu's Key Objectives for the Recovery Act



- Start projects quickly
- Ensure projects have lasting value
- Provide public with unprecedented transparency
- Make a significant down payment on the Nation's energy and environmental future

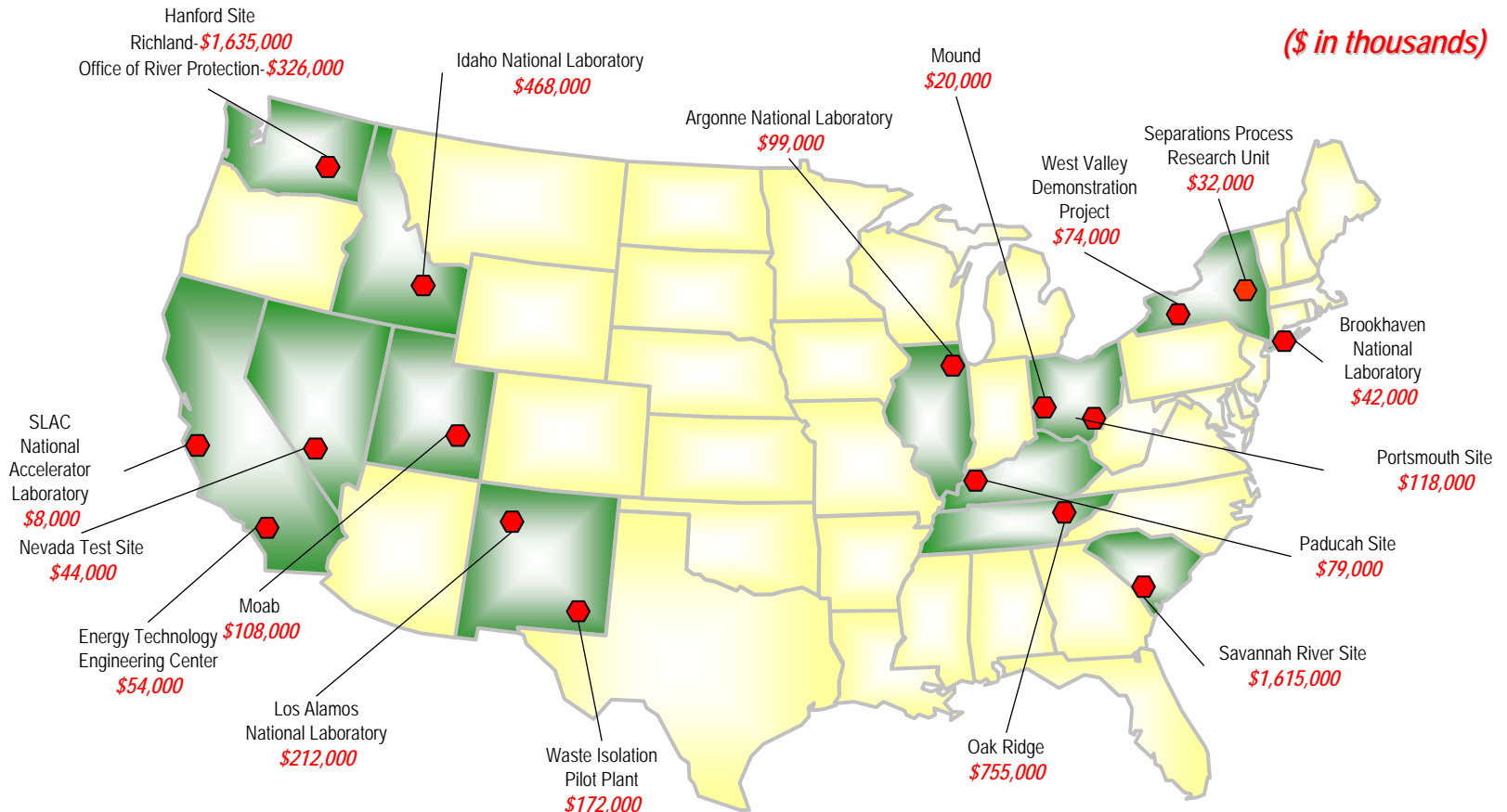


EM has received \$6 billion in American Recovery and Reinvestment Act Funding



- Directed towards existing scope that can most readily be accelerated
 - Soil and groundwater remediation
 - Radioactive solid waste disposition
 - Facility decontamination & decommissioning
- “Shovel-ready” projects
 - Fully-defined cost, scope and schedule
 - Established regulatory framework
 - Proven technology
 - Proven performance
 - Existing contract vehicles
- Focus on EM completion and footprint reduction
- Recovery Act funding will accelerate approximately 70 compliance milestones

\$6 Billion—Making a Difference in Communities Across the Country



12 States, 17 Sites
Uranium/Thorium \$69 million
Management & Oversight \$70 million

ARRA Funding Obligations at EM Sites



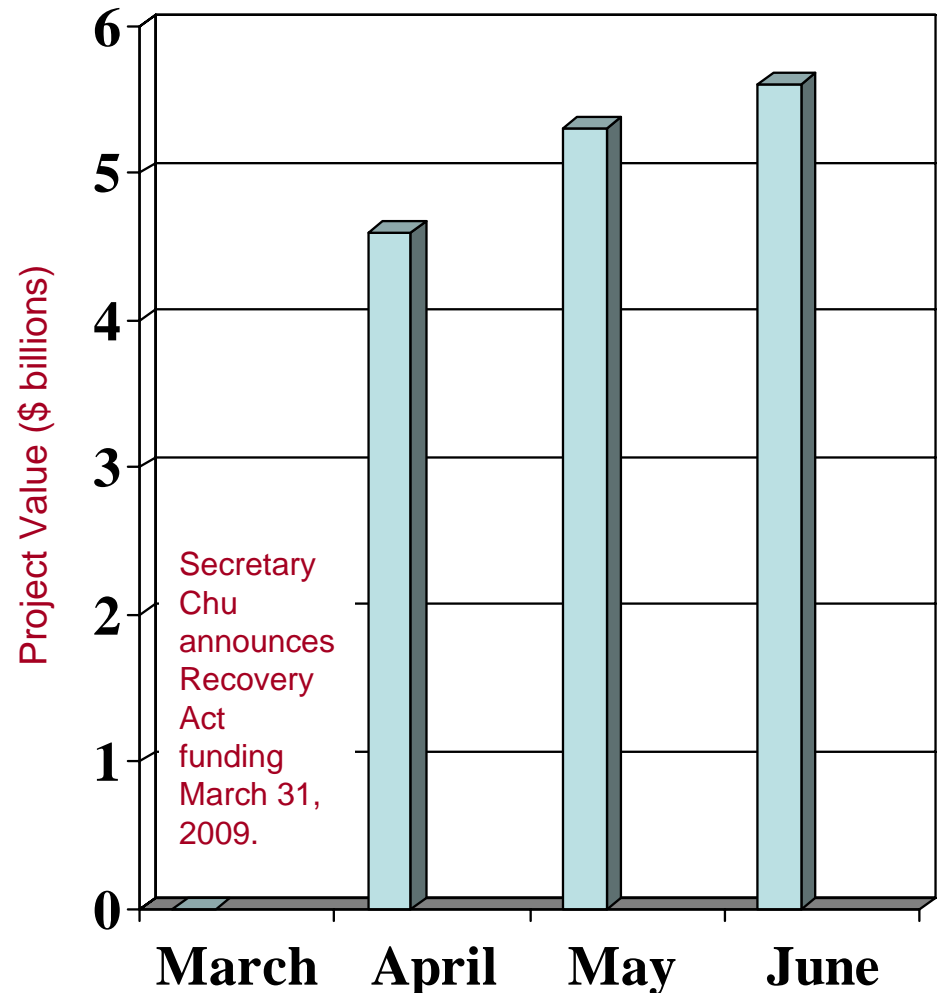
Site	Spend Plan	Obligated to Contracts	Spent to Date
Argonne	98,500,000	35,000,000	231,944
Brookhaven	42,355,000	34,000,000	3,159,052
ETEC	54,175,000	38,300,000	0
Idaho National Lab	467,875,000	373,514,000	29,976,662
Moab	108,350,000	83,000,000	0
Nevada Test Site	44,325,000	27,038,000	210,691
Oak Ridge	755,110,000	428,920,200	7,118,105
Office of River Protection	326,035,000	231,120,000	5,572,230
Paducah	78,800,000	2,500,000	279,611
Portsmouth	118,200,000	4,600,000	76,215
Hanford	1,634,500,000	1,270,579,940	26,990,206
Savannah River	1,615,400,000	1,277,997,002	51,091,437
SPRU	31,775,000	25,000,000	16,315
Title X Uranium/Thorium Reimbursement Program	68,950,000	14,181,497	14,181,497
West Valley	73,875,000	56,000,000	0
Carlsbad	172,375,000	137,704,000	4,907,467
Mound	19,700,000	0	0
SLAC	7,925,000	7,925,000	0
Los Alamos	211,775,000	126,360,000	0
Management & Oversight	30,000,000	3,886,841	116,005
OMB Unallocated	40,000,000		
	6,000,000,000	4,177,626,480	143,927,438



EM has moved quickly to allocate ARRA funds



- Within the first 3 months following receipt of ARRA funding, EM placed contract vehicles initiating work for more than 90% of ARRA projects.
- Modifications issued on 26 of 29 existing contracts covering ARRA work.
- Five additional new contracts pending.





Scope of Work (SRS)

4,500 cubic meters
transuranic waste
disposed or staged for
shipment



440 truck loads



16,000 drums depleted
uranium oxide disposed



Stack of drums
8.5 miles high

69 waste units
remediated



630 football fields
43 miles end-to-end



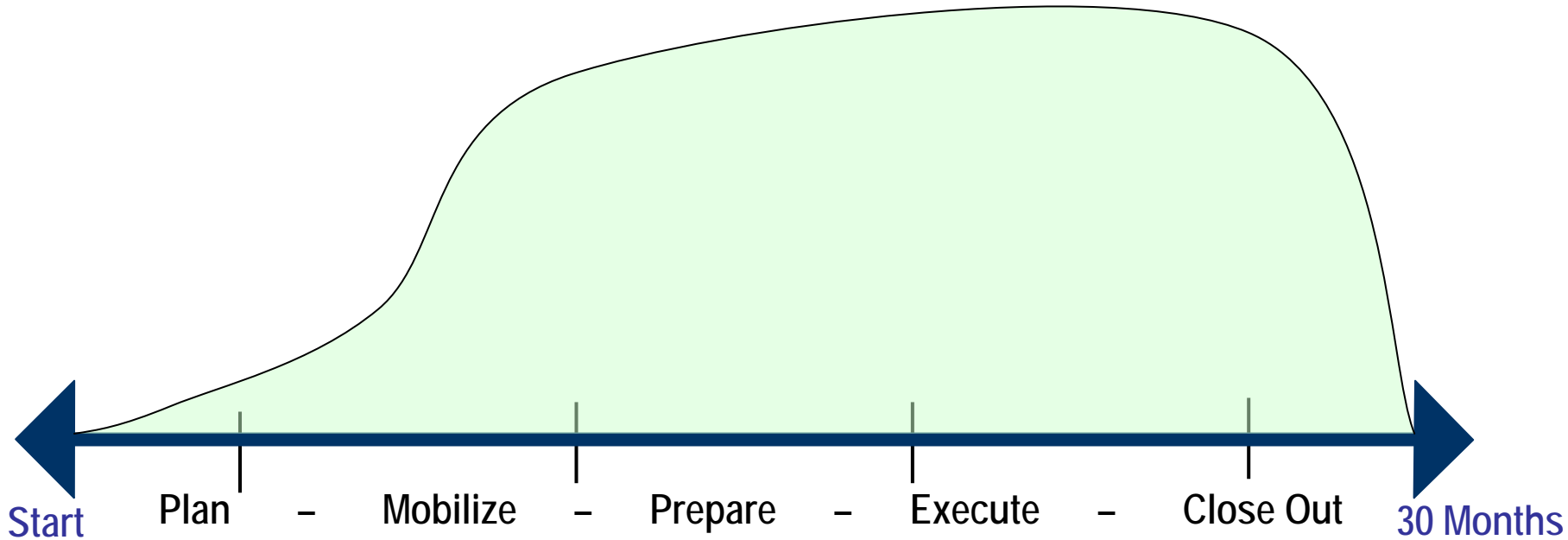
Decommissioning of
two reactors, including
the use of 260,000
cubic yards of grout



1,900 train cars, or
4 Home Depot stores



How It's Done



- Scope
- Contract
- Baseline
- Responsibility
- Authorities

- Recruit
- Hire
- Badge
- Medical
- Train
- Facilities

- Train
- Hazard Identification
- Special Gear
- Procedures

- Project Teams
- Safety Engineering
- Turn Key Pieces



EM Environmental Management

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Over 4,000* Jobs Created and Saved Nationwide!



	Applicants	Saved Jobs	New Jobs	Total
Argonne (IL)	494	4	20	24
Brookhaven (NY)	TBD	45	34	79
ETEC (CA)	1	2	1	3
Hanford-ORP (WA)	6,393	56	150	206
Hanford-Richland (WA)	10,395	300	855	1,155
Idaho (ID)	4,567	240	168	408
Moab (UT)	1,227	0	42	42
Nevada (NV)	21	6	9	15
Oak Ridge (TN)	6,500	44	421	465
Paducah (KY)	1,942	0	19	19
Portsmouth (OH)	1,497	8	42	50
Savannah River (SC)	10,300	798	612	1,410
SLAC (CA)	80	19	3	22
West Valley (NY)	1,128	0	76	76
WIPP (NM)	TBD	16	97	113
TOTALS	44,545	1,538	2,549	4,087



* As of July 3, 2009

Cleanup Work Requires All Types of Skills



DOE Headquarters

- Project Managers
- Contracting Specialists
- Project Engineers
- Chemical Engineers
- Safety and Quality Assurance Specialists
- Budget
- Administrative Assistants
- Strategic Planners

Site Field Offices

- Project Managers
- Cost Estimators
- Schedulers
- Construction Engineers
- Heavy Equipment Operators
- Radiological Technologists
- Nuclear Safety Engineers
- Quality Assurance/Quality Control Engineers
- Truck Drivers
- Health Physics Technicians
- Earth Drillers
- Environmental Engineers
- Nuclear Waste Processing Operators
- Geologists



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Meeting the Challenge to Create Jobs



"I'm real happy to be going back to work and appreciate how quickly DOE and its contractors were able to create a job that help me to support my family...."

—Jeff Johnson, new employee at Idaho's Advanced Mixed Waste Treatment Plant



"A lot of companies feel older workers are through... To get hired... I feel good."

—John Crowder, new employee at Paducah Gaseous Diffusion Plant



"I had to announce the largest layoff in the history of the lab. This year I had the joy of announcing ... millions in new funding from the Recovery Act."

— Dr. Persis Drell, Director
SLAC National Accelerator
Laboratory



—New Idaho employees were trained for equipment handling at Idaho's Advanced Mixed Waste Treatment Plant

Meeting the Challenge to Create Jobs



Washington State *(Hanford Site)*

- New employees in most industries receive a few hours or days of training before reporting for work in the field. New tank farm workers at Hanford receive four weeks of initial training.
- Hanford's DO WORK SAFELY class stresses personal accountability, procedure compliance, the importance of a questioning attitude and asking for help, three-way communications— skills that are portable for any future position.



New employees at Hanford's DO WORK SAFELY training class.

Meeting the Challenge in Getting Work Done



South Carolina (*Savannah River Site*)

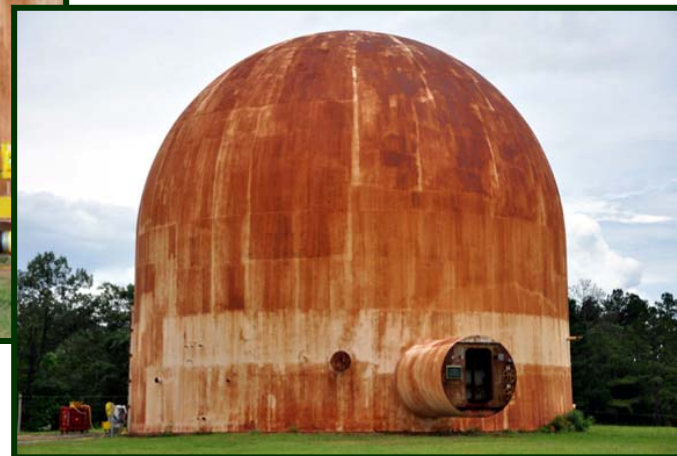
- 1 million gallons of hazardous waste from underground waste storage plants processed at the Saltstone Waste Processing Facility
- Deactivation and decommissioning (D&D) of the R Area nuclear reactor is underway



R Reactor Recovery Act workers at SRS saw fixture piping as D&D work begins.



SRS Recovery Act workers open up old test reactor to prepare it for demolition.



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Meeting the Challenge in Getting Work Done



New Mexico (*Los Alamos National Laboratory*)

- Final canister of remote-handled transuranic waste shipped to the Waste Isolation Pilot Plant, completing key Consent Order milestone required by the State of New Mexico Environmental Department



The final canister of remote-handled radioactive waste departed LANL July 2, destined for WIPP. LANL shipped 16 canisters in 1 month.

Tennessee (*Oak Ridge*)

- Removal of excess equipment and scrap metal from Y-12 Beta 4 and Alpha 5 facilities has begun in preparation for D&D

New York (*Brookhaven National Lab*)

- Cleanup of cesium contaminated soil at the former Hazardous Waste Management Facility perimeter near completion, contributing to footprint reduction

Material characterization by radiological control technicians ensures the safe handling of materials at Y-12's Alpha-5 facility.



Meeting the Challenge in Getting Work Done



Washington State (*Hanford Site*)

- Hanford broke ground on an \$80 million groundwater treatment facility funded through the Recovery Act. The facility, to be completed in 2011, will be roughly the size of a football field.



EM Assistant Secretary Inés Triay (center) and officials with contractor CH2M HILL, DOE, the AFL-CIO, EPA, and Washington State break ground on an \$80 million Recovery Act project at the Hanford on July 23.

Utah (*Moab*)

- 160,000 tons of uranium mill tailings were shipped between April and July 2009. Multiple train shipments per day will accelerate cleanup of Moab's enormous uranium mill tailings pile.



A gantry crane loads uranium mill tailings onto a railcar at Moab.

Communicate. Communicate. Communicate.



EM Headquarters and Field sites are striving to provide “unprecedented transparency” as to where the ARRA money is going and what is being accomplished.

- EM Recovery Act newsletter
- Weekly News Flash
- EM and DOE Recovery Act websites
- Stakeholder and public meetings
- Congressional testimony
- Email updates





Summary

EM Recovery Act is rising to the challenge!

- Over 4,000 jobs created and preserved in 12 States
- More than 90% Recovery Act funds have been allocated to sites
- Modifications issued to 26 of 29 existing contracts
- Nearly \$4.2 billion obligated for EM Recovery projects
- Over \$140 million spent on Recovery work
- Monitoring project execution and performance monthly

Learn More About the EM Recovery Act Program



The screenshot shows the U.S. Department of Energy website. At the top, there is a navigation bar with links for 'ABOUT DOE', 'ORGANIZATION', 'NEWS', and 'CONTACT US'. Below this is the 'U.S. DEPARTMENT OF ENERGY' logo and a search bar. A secondary navigation bar lists various energy-related topics: 'SCIENCE & TECHNOLOGY', 'ENERGY SOURCES', 'ENERGY EFFICIENCY', 'THE ENVIRONMENT', 'PRICES & TRENDS', 'NATIONAL SECURITY', and 'SAFETY & HEALTH'. The main content area is titled 'RECOVERY AND REINVESTMENT' and features a sidebar on the left with links to 'Home', 'A Message from the Secretary', 'Communications, Plans & Reports', 'Funding Opportunities', 'Tax Breaks', 'Ask an Expert: DOE Recovery Act Clearinghouse', and 'Popular Topics Contact Us'. The main content area is titled 'Ask an Expert: DOE Recovery Act Clearinghouse' and includes the 'RECOVERY.GOV' logo, a 'Printer-Friendly' link, and a paragraph explaining the purpose of the clearinghouse. Below this, there is a 'FREQUENTLY ASKED QUESTIONS' section with a link to 'Funding Opportunities' and a list of questions.

EM Recovery Act Program Office

<http://www.em.doe.gov/emrecovery>

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DOE Recovery Act Clearinghouse

<http://RecoveryClearinghouse.energy.gov>

Email: RecoveryClearinghouse@hq.doe.gov

Phone: 1-888-DOE-RCVY