



U.S. DEPARTMENT OF **ENERGY**

Positioning EM for Future Success

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Office of Environmental Management

Waste Management Symposium

Phoenix, Arizona

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EM *Environmental Management*

safety ♦ performance ♦ cleanup ♦ closure

www.em.doe.gov

Leveraging strategic investments to win the future

Environmental Management: A National Responsibility

- We reduce risks and protect our workers, our communities and the environment through cleanup
- Our work is urgent and essential to the health and economic vitality of our communities and the nation and positions our Sites for future missions and use
- Our mission is not discretionary - it is a congressional mandate to D&D the gaseous diffusion plant under the U.S. Energy Policy Act of 1992 and a federal obligation to address the cold war environmental legacy cleanup and honor our regulatory commitments
- Time is not on our side – costs and risks increase over time
- We have demonstrated value for the American Taxpayer by delivering significant progress in the past several years in reducing risks and the overall liability - but our work is not done
- The Environmental Management portfolio is one of our nation's largest liabilities - we have a responsibility to relieve future generations of this environmental and financial liability



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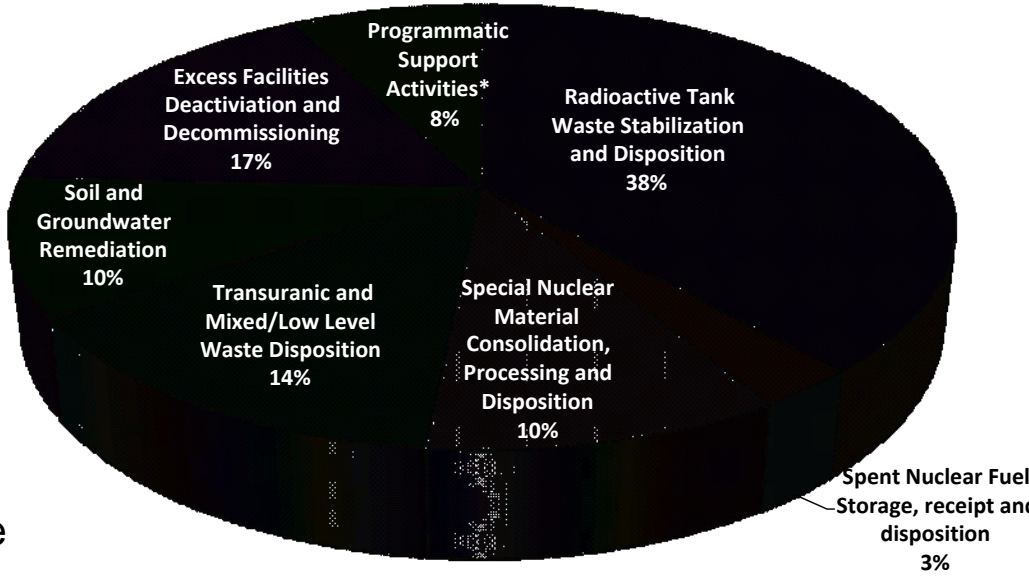
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Program Priorities

- Activities to maintain a safe, secure, and compliant posture in the EM complex
- Radioactive tank waste stabilization, treatment, and disposal
- Spent (used) nuclear fuel storage, receipt, and disposition
- Special nuclear material consolidation, processing, and disposition
- High priority groundwater remediation
- Transuranic and mixed/low-level waste disposition
- Soil and groundwater remediation
- Excess facilities deactivation and decommissioning (D&D)

FY 2012 Budget Request



• Program Direction, Program Support, Community & Regulatory Support, Technology Development & Deployment, and Post-Closure Administration



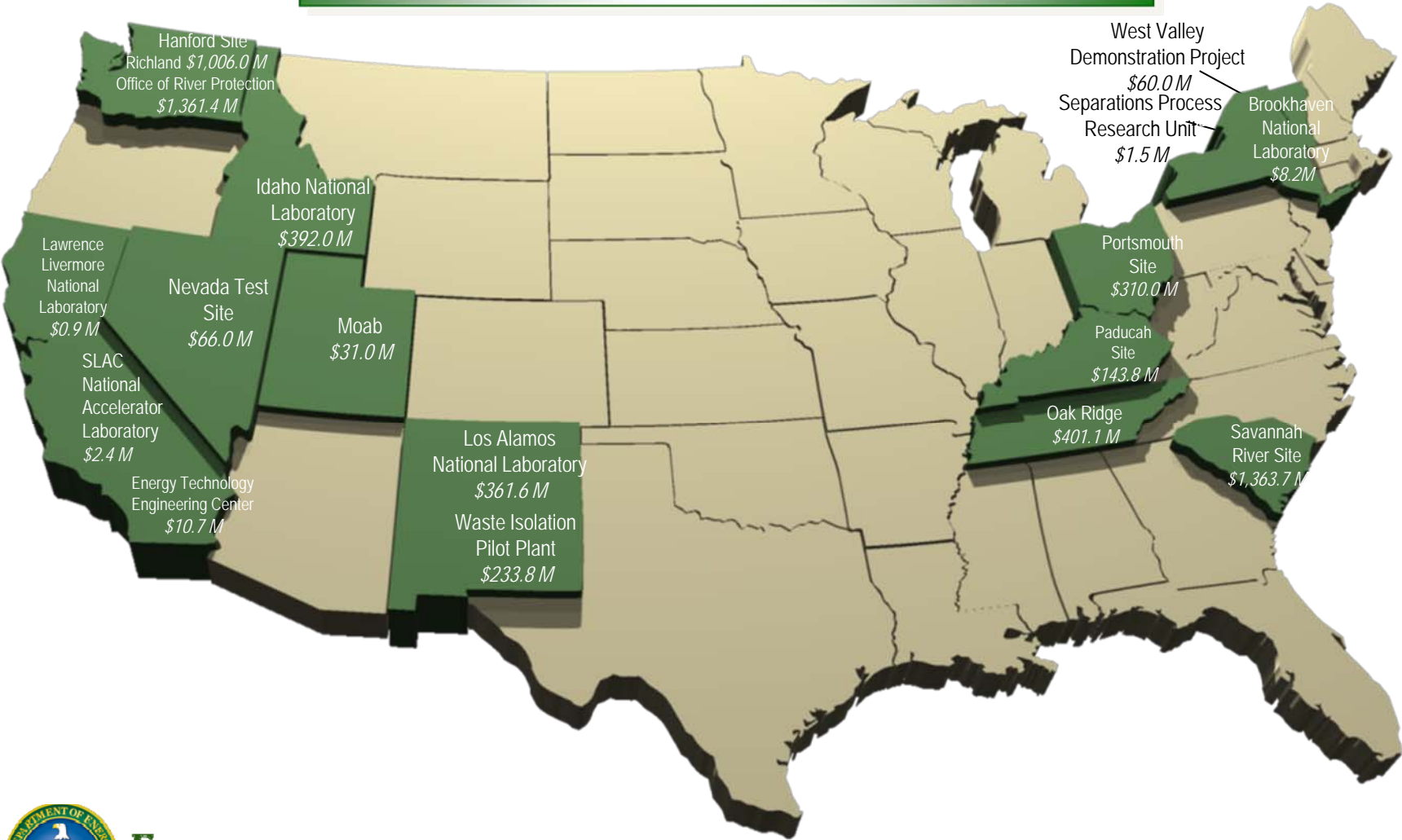
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Funding by Site (FY 2012 Congressional Request)



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FY 2012 Highlights

- Funds activities to maintain a safe, secure and compliant posture in the EM complex
- Funds the recently negotiated Tri-Party Agreement settlement with Washington state
- Supports the required TRU waste retrievals at Idaho consistent with the terms of the Idaho Settlement Agreement
- Positions Los Alamos National Laboratory to comply with Consent Order
- Continues investment in transformational technologies
- Allows EM to continue to leverage Recovery Act funds
 - Footprint Reduction
 - Economies of Scale



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FY 2012 Highlights

Los Alamos National Laboratory

- Aggressively pursue cleanup in accordance with the LANL Consent Order:
 - Enables EM to dispose of increased quantities of Mixed Low Level and Transuranic Waste.
 - Continue cleanup and closure of TA-21 and TA-54
 - Initiate new excavation remedy at Material Disposal Area A (new deep groundwater and vapor monitoring wells and additional sampling and analysis)

Idaho

- Utilize TD&D funding to support maturation of the Hot Isostatic Press technology



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FY 2012 Highlights

Oak Ridge

- Operate the Transuranic Waste Processing Center to process contact-handled and remote-handled TRU to meet the Site Treatment Plan milestone
 - Approximately 384 cubic meters
- Maintain compliance at the site with the use of Recovery Act (buy-back) funding (~\$86M-\$96M)
- Conduct pre-demolition activities on East Wing and North End of K-25 to advance progress toward facility completion by 2015

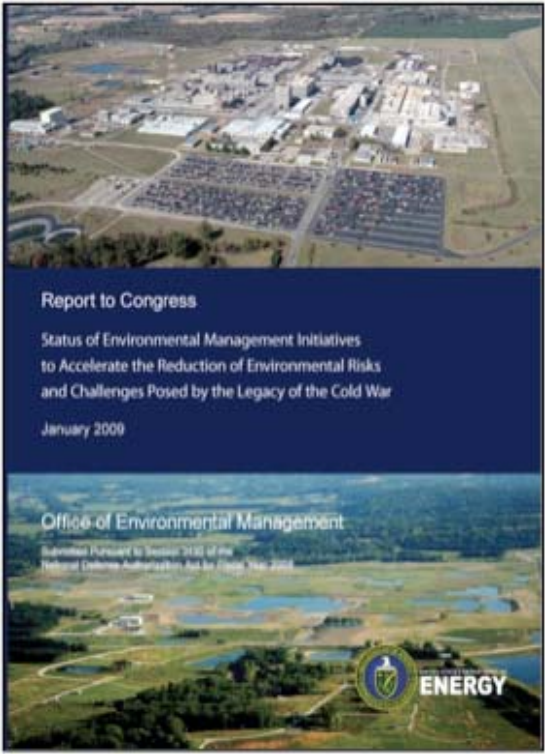
Waste Isolation Pilot Plant

- Increase shipments of contact-handled and remote-handled transuranic waste from small quantity sites
- Accelerate removal of TRU waste from a majority of these sites



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The Tools are in Place



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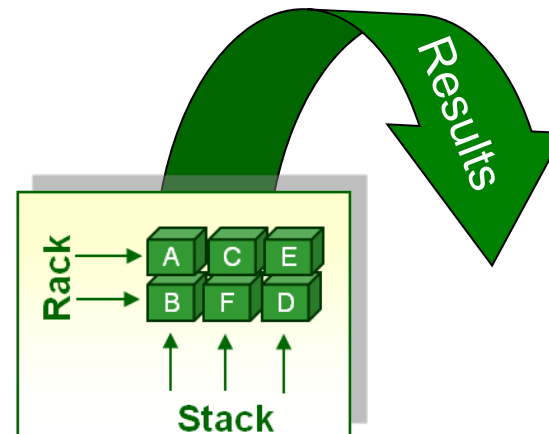
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Planning Basis Established

400 sub-PBS ABBs established within baseline Discrete work units

- Efficiently build scenarios and conduct alternative analyses
- Re-sequence (“*rack and stack*”) while maintaining linkage to baselines
- Integrate EM and site LCC, scope, schedule
- Understand & communicate LCC cost, quantities, linkage to other programmatic work scope
- Accelerate/delay completion of work scope based on alternative prioritization
- Identify budget/planning “head room” needed to accept non-EM work scope into the program



- Ability to evaluate and verify Investment opportunities

- Key to securing \$6 billion in Recovery Act funding



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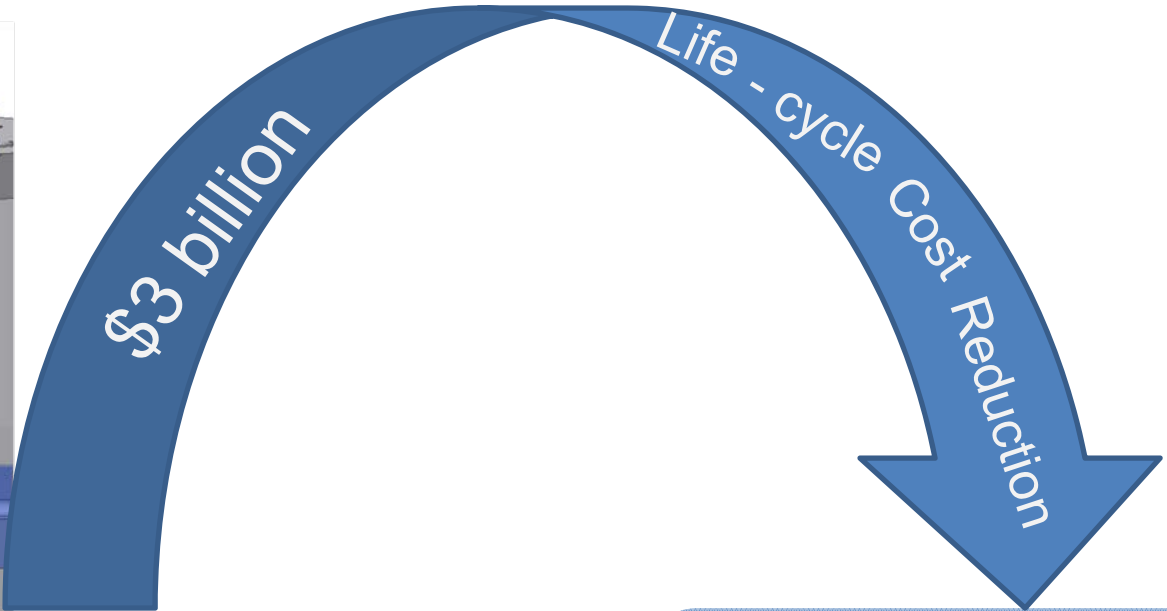
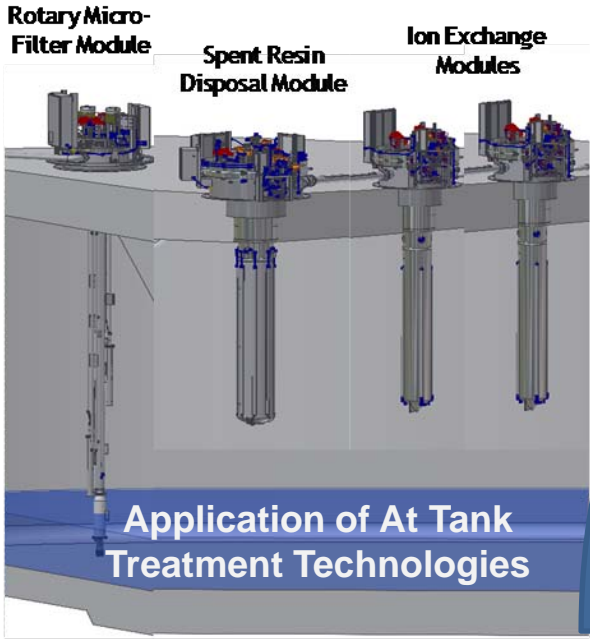
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Pension Savings Re-invested

EM has recorded a \$3 billion Life-cycle Cost Reduction at Savannah River as a Result of EM's Enhanced Tank Waste Strategy



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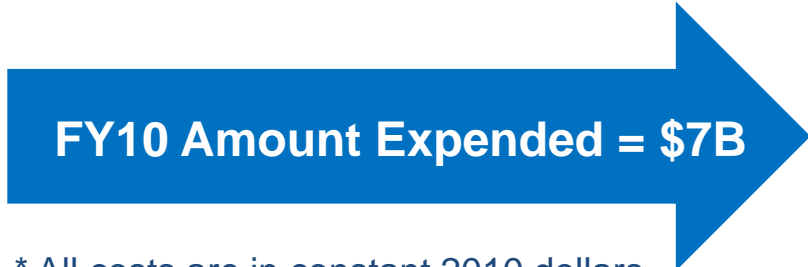
Environmental Liability Reduced by \$20 billion



FY 2009

Drivers

- Incorporation of best practices
- Incorporation of tank waste strategy into SRS baseline



FY 2010

* All costs are in constant 2010 dollars



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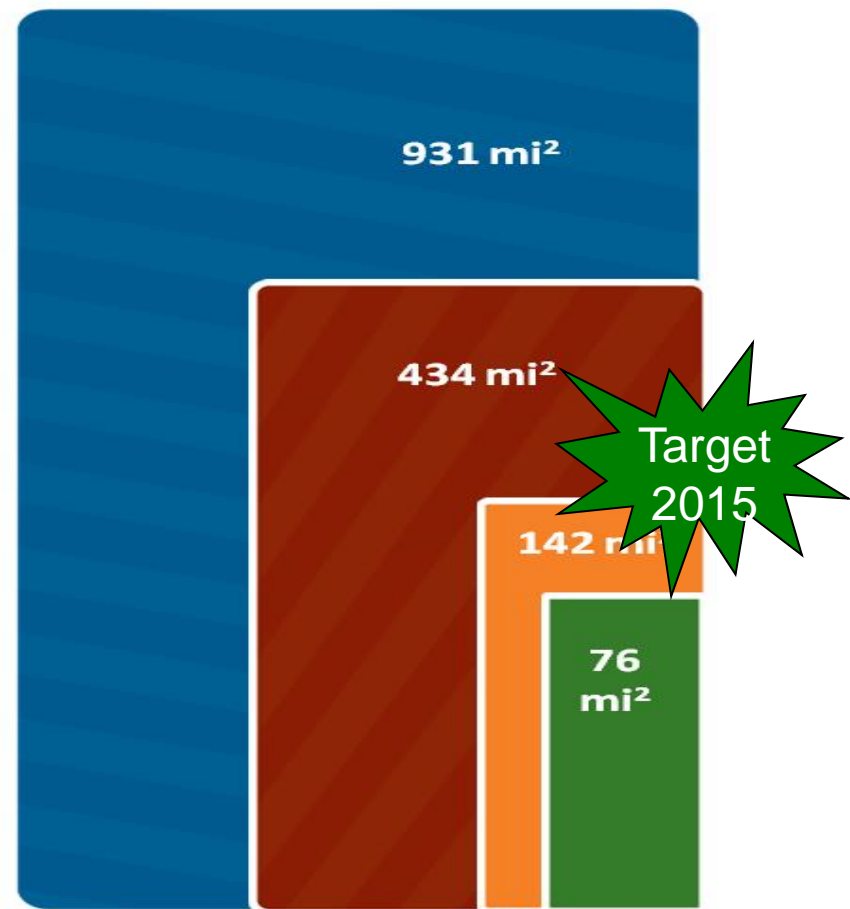
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EM Footprint Reduction

- Reduce the EM Legacy Footprint by 40% by the end of 2011, leading to approximately 90% reduction by 2015
- Enable sites to maintain Recovery Act momentum and leverage economies of scale
- Free land and resources for other uses



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Contract and Acquisition Management



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Human Capital



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