



**Savannah River  
National Laboratory™**

OPERATED BY SAVANNAH RIVER NUCLEAR SOLUTIONS

We put science to work.™

# Asset Revitalization and Natural Capital Asset Management

*SRS Development of Case Studies and Leadership in DOE EM HQ Asset Re-use Initiative*

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*Briefing with Jennifer Nelson to 9<sup>th</sup> Annual Georgia Environmental Conference  
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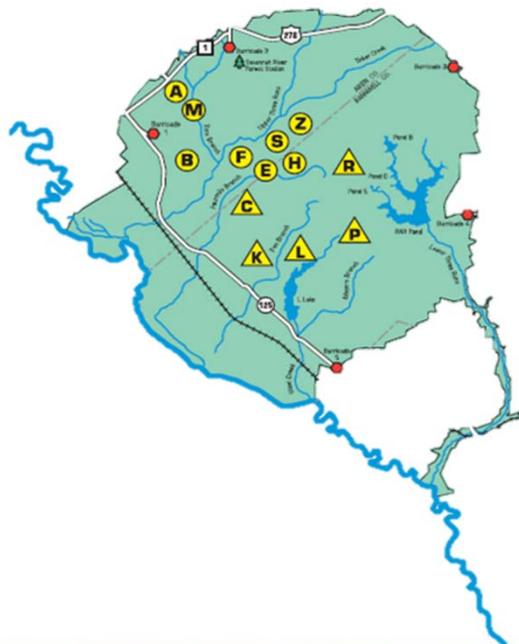
## Asset Revitalization Initiative (ARI)

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- **Mission Needs drive decisions on declaration of Asset or Excess**
  - Since the 1950's, DOE and its predecessor agencies have completed 95 transfers of approximately 25,500 acres of land, facilities and other assets for beneficial reuse, including excess fire stations, water treatment plants, water production facilities and other land, assets and facilities that local communities are using to support their civic, economic and social needs.
  - DOE has completed cleanup and closure of approximately 90 sites that were involved in US nuclear weapons development and many of these sites are in beneficial reuse.
  - Additional departmental efforts to consolidate mission areas, sites and facilities and reduce the overall operational footprint of the DOE complex across the country will make additional land, assets and facilities available for beneficial reuse.
  - Key aspect of ARI Vision is a paradigm shift in how the department views its assets



# Savannah River Site Overview



SRS is a key DOE site responsible for environmental stewardship and cleanup, waste management and disposition of nuclear materials.

- 198,334 acres, or about 310 square miles
  - 4<sup>th</sup> largest DOE site
- SRS workforce: **Approximately 9,000**
  - DOE-SR and DOE-NNSA
  - M&O contractor: Savannah River Nuclear Solutions, which includes the Savannah River National Laboratory
  - Other contractors include Savannah River Remediation, WSI SRS Team, Shaw Areva MOX Services, Parsons and the University of Georgia (Savannah River Ecology Laboratory)
- Total Site budget approximately \$2.4 billion



## SRS Revitalization Best Practices

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- **What Demonstrates SRS is the Changing Paradigm?**
  - Site Maintenance with progressive review of footprint uses (SRS is not a closure Site)
  - Lease arrangements for federal, private-sector or community enterprises that align with site Missions and Vision
  - Adding business segments that capitalize on historic competencies and facilities
    - *Savannah River National Laboratory becomes the central hub*
    - *Unique industrial facilities and infrastructure*
  - Support for a broad definition of Asset Revitalization to include land, facilities, and intellectual property
  - Seeking ways to put existing assets to greater use to serve DOE needs



## ARI/SRS Natural Capital Asset Management Case Study

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- Turning the lens around....
  - Supports ARI paradigm shift to “Asset” foundation versus “Liability”
  - Broadens definition of asset revitalization to include reuse requiring multiple features and capacities of **land**, as well as **air** and **water** (significantly scarce assets in many markets, e.g., airspace, frequency, and airshed uses)
  - Provides high-level visibility for internal and external decision-makers through inventory compilation
  - Prompts larger universe of options for beneficial reuse in economic development and multi-agency use
  - Identifies credits, other banked assets, and valuable services generated by SRS operations, efficiencies, and investment
- <http://www.energy.gov/ari/asset-revitalization-initiative>



## DOE Task Force Objective

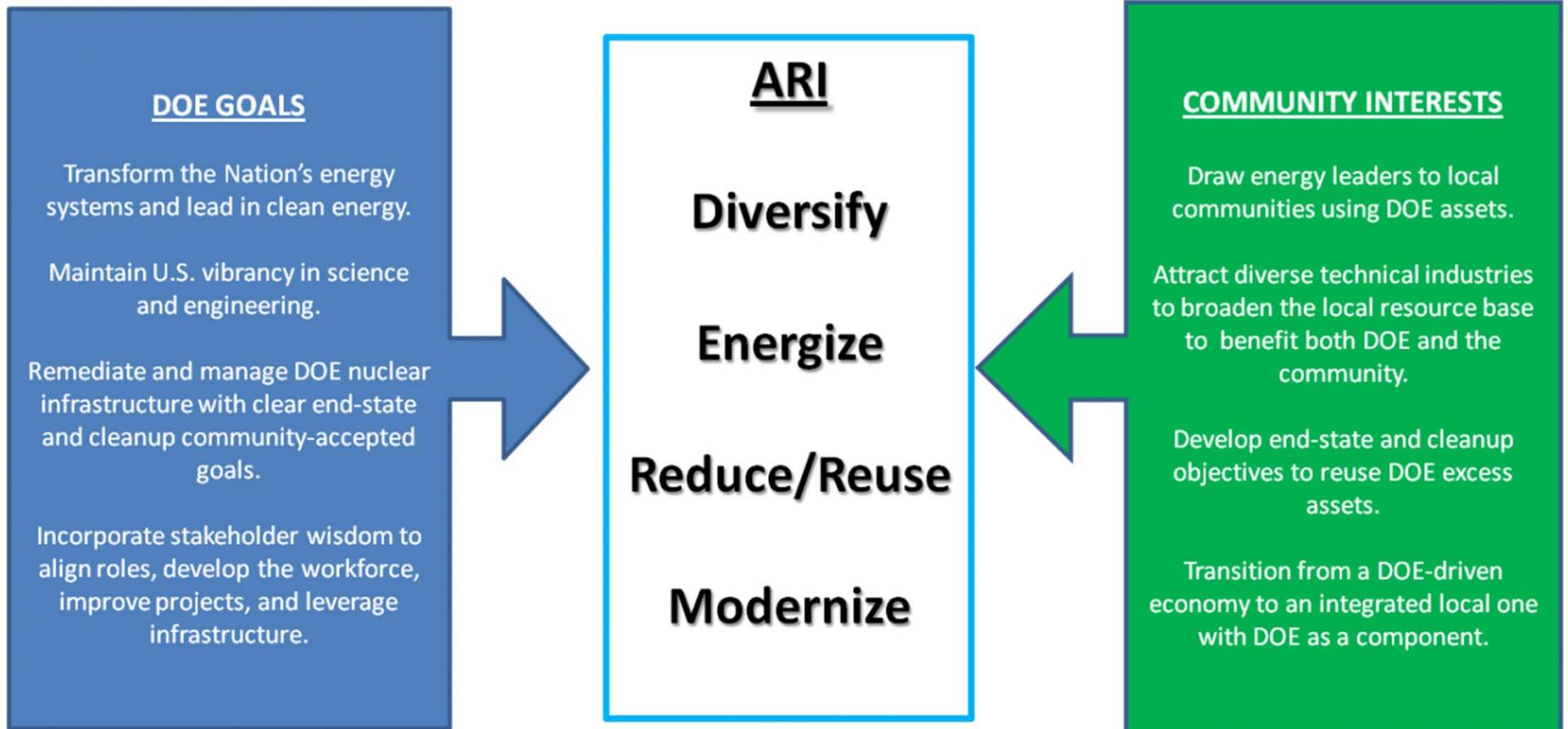
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- **Develop a process to capture the Total Value Portfolio**
  - Drives ARI paradigm shift to “Asset” foundation versus “Liability”
  - Ensure high level categories that are flexible enough for ALL sites to use
  - Align with long standing processes to facilitate low cost data collection (FIMS, Annual Site Environmental Reports, existing Federal and State permits, compliance data, etc)
  - Engage with specific entities (CROs, EDCs, industry incubators,etc)
  - Create the “commercial Multiple Listing Sheet” to standardize common readily available information
  - Institutionalize a “decision making process” that considers Economic Impact, Total Value Portfolio, Real Property Management in the evaluation of mission needs and site attributes
    - <http://www.energy.gov/ari/asset-revitalization-initiative>



# DOE Task Force Objective : Working with Our Communities

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## Things to Consider:

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- **Economic Impact of Federal facilities on local and regional socio-economics**
  - Reports on standard data for major Federal sites
- **Natural Capital Asset case study**
  - Establish standard categories of “assets”
  - Inclusion of two or three federal sites or various size and mission
- **Collaborate with Federal Agencies in region**
  - Provide introduction at other EM sites
  - Share tools to gather data
  - Partnership in interaction with Regulatory Agencies
- **Implement NCAM performance metric system in parallel with classical metrics**
  - Pilot the establishment of “bookable emission control” from nuclear sourced power to SRS
  - Work with SCANA and SCDHEC to establish the credit bank to offset the impacts of “non attainment”

