PRESENTATION TO
WEAPONS MONITOR COMPLEX DECISIONMAKER’S FORUM
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CSRA Region

- Overall SRS economic Impact - $2 Billion
- CSRA 5-County Area SRS Employment – 7,077 people
  - SC - 4,758
  - GA - 2,319
Energy Park Initiative (EPI)

DOE’s innovative concept to establish a process that facilitates the development, construction, and operation of industries compatible with DOE sites to benefit local communities by:

utilizing site properties by the community and DOE to develop large scale energy-related facilities using technologies like wind, solar, biomass, nuclear power, desalinization, geothermal, natural gas, and hydro power.
"This is like deja vu all over again." - Yogi Berra.
**INITIAL SRS ENERGY PARK CONCEPT**

- Initial Discussions between Economic Development Partnership (EDP) and DOE concerning energy park at SRS
- Dominion Energy evaluated APT site for expansion of North Anna nuclear station.
- Steel manufacturing project considered SRS property
- DOE issued FR notice for expression of interest of DOE lands for commercial nuclear power plants
- NuStart consortia requested proposal to site nuclear power reactor on SRS

**DOE ENERGY PARK INITIATIVE**

- Shane Johnson authorized DOE-SR to “initiate discussions and begin negotiations with any entity regarding land lease arrangements at SRS which could lead to construction and operation of an advanced nuclear power plant”
- Two ethanol prospects discussed SRS property – absence of firm land lease and DOE controls stalled projects
- DOE issued request for GNEP. Aiken and Barnwell County teams submitted proposals. Aiken site assumed to use SRS property
- DOE-SR provided letter stating it finds no reason that would preclude (1) a lease of SRS lands for an Energy Park and (2) the location of GNEP facilities within the Energy Park

**DOE ENERGY PARK TODAY**

- DOE-SR advised EDP that they would only work with the SRSCRO for the lease of SRS lands
- DOE-SR specified desire to interface with a single regional entity, similar to other DOE sites
- DOE-SR changed discussions away from a specific land lease to negotiating an umbrella memorandum of understanding (MOU)
- MOU developed and approved internal to DOE-SR and by the SRSCRO
- DOE-SR notified SRSCRO that an MOU is no longer appropriate and that a letter from DOE-SR Manager would suffice

**2002**

**2006**

**2009**
Current DOE-EM Energy Park Direction
Energy Park Region

Energy Park Missions

Energy Park Lease
SRSCRO Vision

Establishment of one or more “Energy Park Leases” at Savannah River Site (SRS) in order to create a collaborative platform where government, private enterprise, university and other non-profit organizations can work together to develop, demonstrate, and commercially deploy energy technologies and to advance the state of affordable energy in the United States while actually producing energy needed for economic and national security.
SRSCRO Objective

• Create an “Energy Park Lease” consisting of up to 2,500 acres of land with geotechnical characteristics suitable for the most demanding energy-related projects, access to public highways, interior streets to individual sites, and connections tie-in to electrical power distribution, and other needed utilities.

• Serve the CSRA region’s sustainable economic development through job creation in alternative energy and nuclear technologies.

• Capitalize on the assets which are available in the CSRA region, including strategic partnerships and the existing human capital of engineers and technicians with the expertise in the energy and chemical industry sectors.

• Expand opportunities for future DOE missions at SRS.
For any given task, you have to use the right tool:

(For screwing things in…)

(For wrenching things…)

(For hammering things…)

(For getting hammered…)

COMMUNITY REUSE ORGANIZATION

two states, one future
Local Economic Development Tool Box

- Geographic buffer
- Well defined site characteristic
- Align and link regional assets and talents
- Does not compete with other 5-County industrial sites
- Center of Excellence for applied energy technology
- Private and public-private partnerships
- Lease Revenue Shared Through SRSCRO

New economic development opportunities and job creation for the CSRA

COMMUNITY REUSE ORGANIZATION

two states, one future
Energy Park Lease Impact

• Local private energy development supports National Energy Independence

• Additional energy employers in the region will improve the technical workforce needed by DOE-SR to meet its critical and strategic missions

• An Energy Park will leverage SRS capabilities for private sector jobs and investment

• There will be new capital investment on tax roles

• An Energy Park will provide unique capabilities in very competitive site-selection evaluations

• Provides the region with a return on taxpayer investment

• Provides economic diversification in times of economic adversity
Energy Park Lease Proposed Uses

- **Renewable/Alternative Energy**
  - Biomass Steam Generation
  - Wood Pellet Production
  - Biogasification
  - Solar
  - Cellulosic Ethanol
  - Hydrogen Infrastructure & Generation

- **Education & Research**
  - SUNRISE

- **Medical**
  - Medical Isotope Generation
  - Radiological Medical Health Services

- **Nuclear**
  - SRS Mission Support
  - Commercial Reactor
  - Fuel Fabrication
  - Uranium Enrichment
  - Nuclear Fuel Reprocessing and Stabilization
The Chicken or the Egg?

The Land

The Uses
"One-fifth of the people are against everything all the time."

- Robert F. Kennedy
You Can't please All the People, All the TIME

“We believe that the financial and safety risks associated with nuclear power are so grave that nuclear power should not be a part of any solution to address global warming. There is no need to jeopardize our health, safety, and economy with increased nuclear power when we have cleaner, cheaper solutions to reduce global warming pollution.” — June 2005 statement signed by 313 national, international, regional, and state environmental organizations, including Sierra Club, Greenpeace, Friends of the Earth.
Opposition
"You have to think anyway, so why not think big?" Donald Trump.
Sense of **Urgency**, call to **Action**

- We are at *the end of the oil age*
  - Need ‘energy equity and security’ in place now
- **Alternative energy sources are obvious**
  - Need to focus on **Synfuels**
- Need **safe nuclear energy**
  - To *replace* coal and gas, augment solar/wind
  - To create **hydrogen** for transportation ‘fuel’
- Time to market is *less than 20 years!*

**Community Reuse Organization**
*two states, one future*
"What we've got here is (a) failure to communicate" 1967 film *Cool Hand Luke.*
Are Energy Parks a Wicked Problem?

• Every wicked problem is essentially unique
• There is no definitive formulation of a wicked problem
• A wicked problem is not fully understood until after the formulation of a solution
• Solutions to wicked problems change the problem itself
• Solutions to wicked problems are not true or false, but better or worse
• Stakeholders have radically different world views and different frames for understanding the problem
We need to “Gee” and “Haw” as a team!

“Gee!” it means go right and “Haw!” means left
True Wicked Problems

• If you choke a Smurf, what color does it turn?

• Is it true that cannibals won't eat clowns because they taste funny?

• What hair color do they put on the driver's license of a bald man?

• When someone asks you, A penny for your thoughts and you put your two cents in, what happens to the other penny?

• Where do forest rangers go to "get away from it all"?

• Why didn’t Noah swat those two mosquitoes?

• If love is blind then why is there lingerie?