



# Energy Parks Initiative

*“Leveraging Assets to Increase the Taxpayer’s Return on Investment”*

April 29, 2009

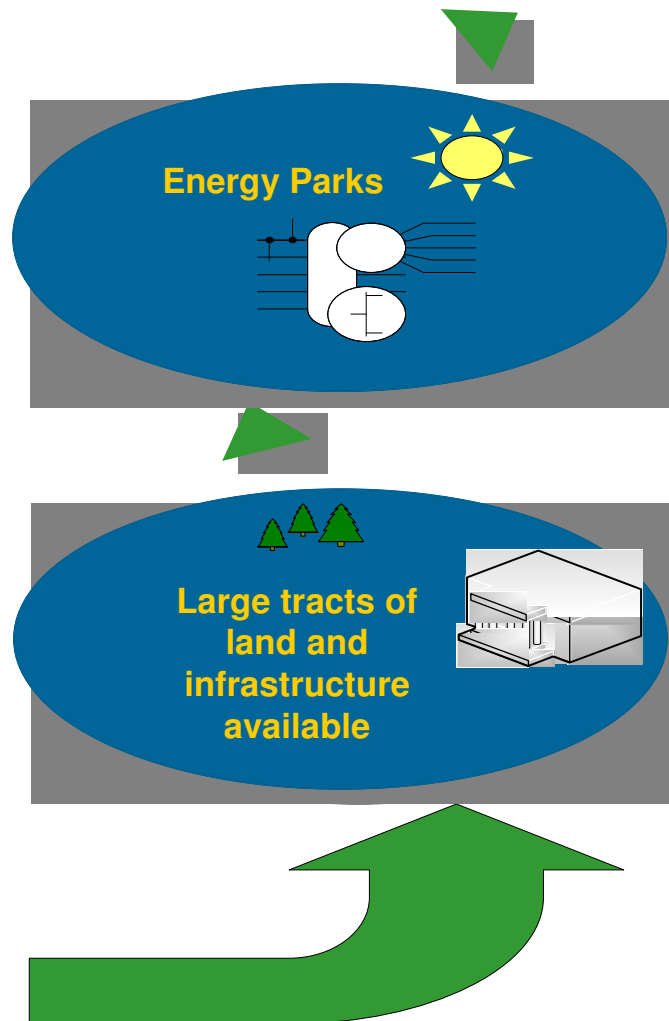
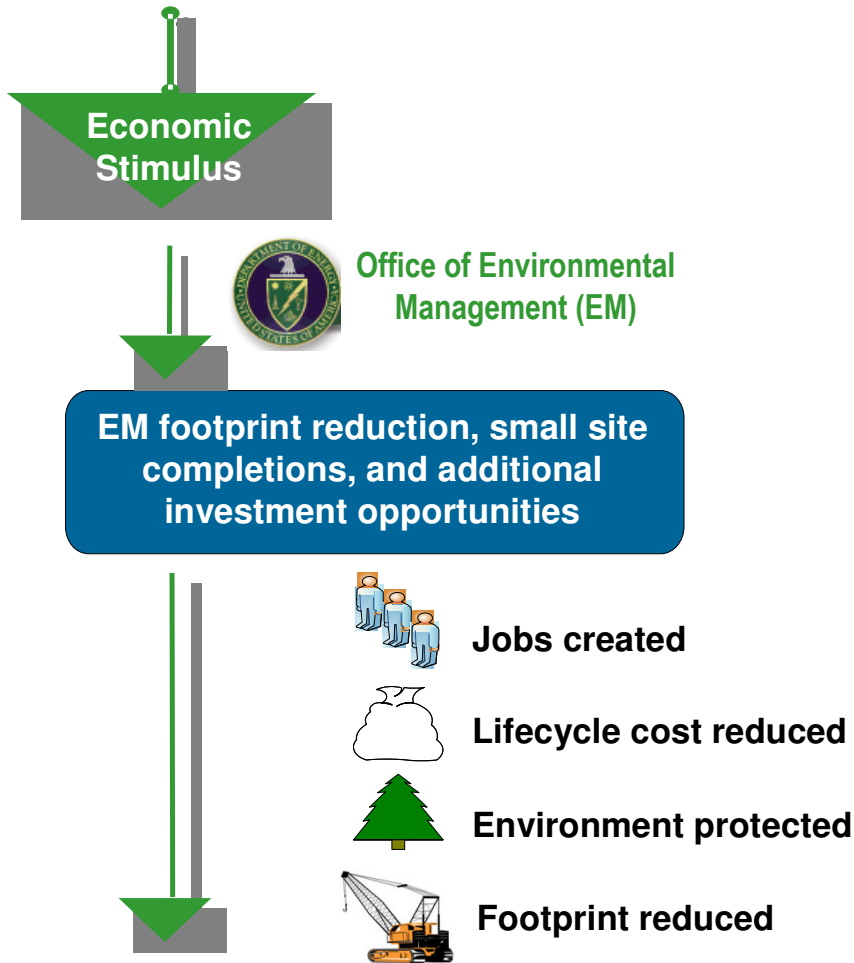


**EM** Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

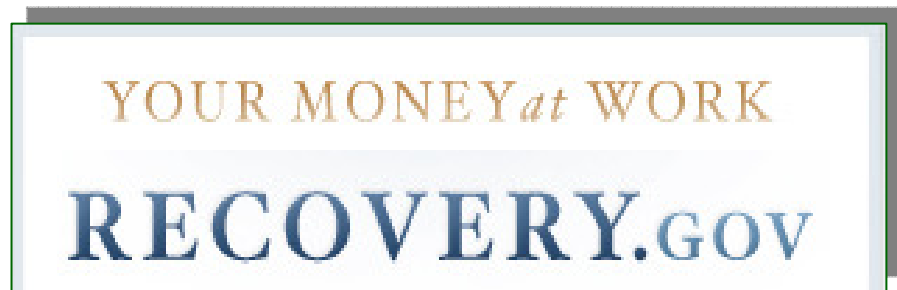
# Footprint Reduction & Energy Parks



- Clean, Diverse Energy Sources**
- Energy security
  - Establish long-term site mission
  - Sustainable jobs

# American Recovery and Reinvestment Act - 2009

- Focusing on “shovel ready, boots on the ground” projects contributing to footprint reduction and small site completions
- Requiring rapid deployment of resources with transparency of activities and accountability for results
- Frees up assets for development of energy parks.



**Contributes to jobs creation, EM life-cycle cost savings, and energy parks**



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# Energy Parks Initiative: A bold and innovative concept

- To leverage underutilized assets and create opportunities to enable rapid development of large-scale energy-related facilities.
- ...particularly those with significant potential for sustained progress towards energy independence, enhanced regional economies, national security, environmental sustainability, and other national goals.

# Energy Parks Initiative: Kinds of Assets

- **Natural Resources** (land, water, and renewable energy)
- **Infrastructure** (roads, buildings, equipment, utilities, barge & rail access, transmission systems, and specialty features and capability)
- **Institutional Controls** (physical control, security, water rights, permits, buffer areas, and environmental characterization information)
- **Human and Economic Capital** (knowledge of regulatory environment, highly trained workforce, transition to future missions, and return of valuable assets to the local tax base)
- **Diversity, Size, and Remoteness** (allows consideration of many uses, and protection of critical infrastructure)
- **Applied Tools** (technology, loan guarantees, purchasing power)



# Energy Parks Initiative: Technologies

Options include conventional and advanced energy technologies, such as:

- Renewable energy: solar, wind, biomass, geothermal
- Fossil fuels: clean coal, carbon sequestration, gas turbine
- Nuclear: power, fuel cycle, waste management
- Electricity generation, transmission, distribution
- Hydrogen generation
- Emission controls
- Specialty manufacturing

# Reutilization of Assets/Energy Parks



- EPI will convert EM liabilities (contaminated sites, facilities, and materials) into assets to solve critical national energy and environmental issues
- EPI can demonstrate effective partnering of DOE, other Federal agencies, Tribal Nations, private industry, state and local governments, and local communities
- EPI can preserve and enhance economies of local, state and regional host communities of DOE/EM sites with energy reindustrialization

**EM's unique resources can be leveraged to address some of the Nation's critical energy security and climate change concerns**



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