

# EPSCoR Program Review 2009

*The Importance of Public/Private Partnerships in the Energy Sector*

**Brookhaven National Laboratory  
Brookhaven, N.Y.**

**July 21<sup>st</sup> - 2009**

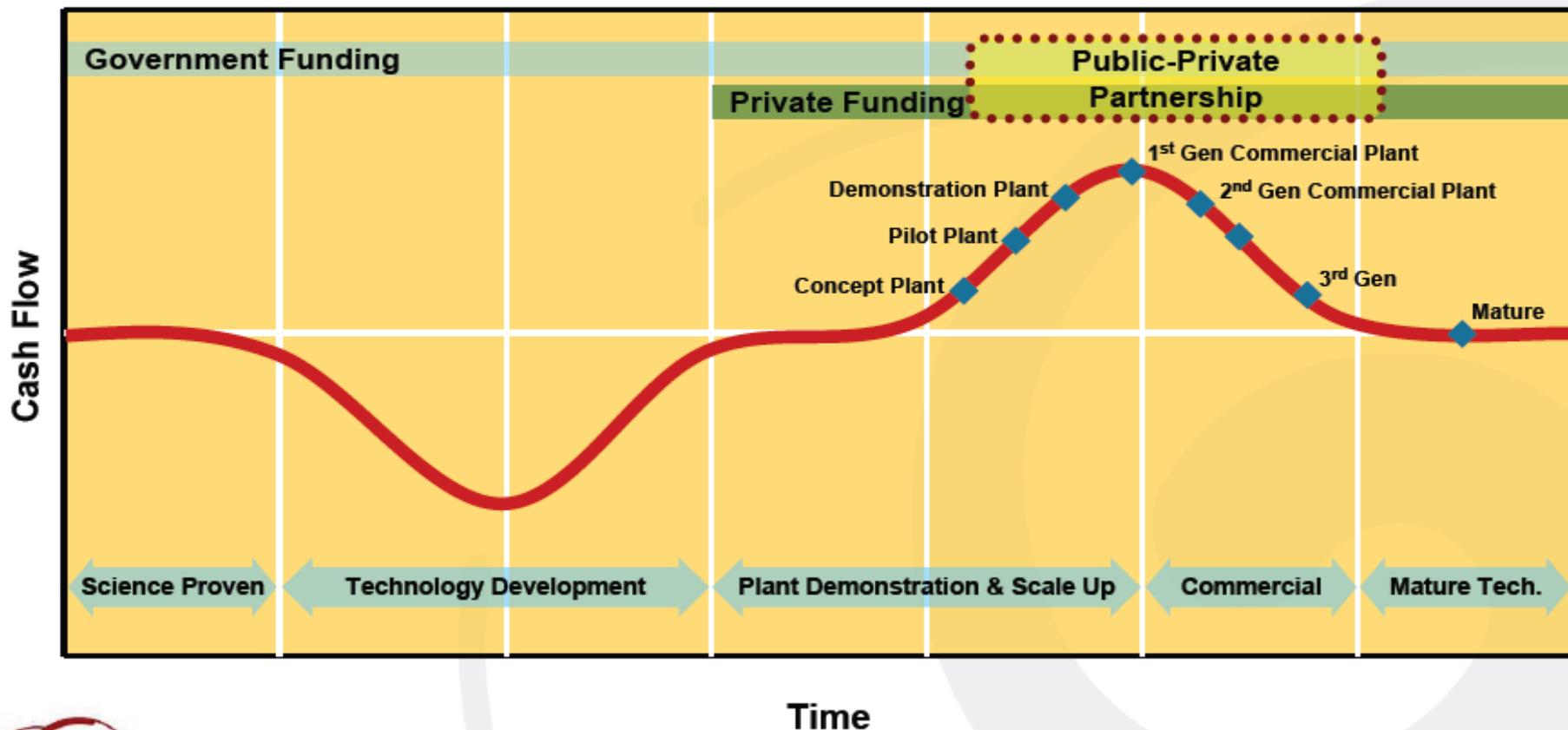
**Mark R. Torpey  
NYSERDA**

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## **New York State Energy Research and Development Authority (NYSERDA)**

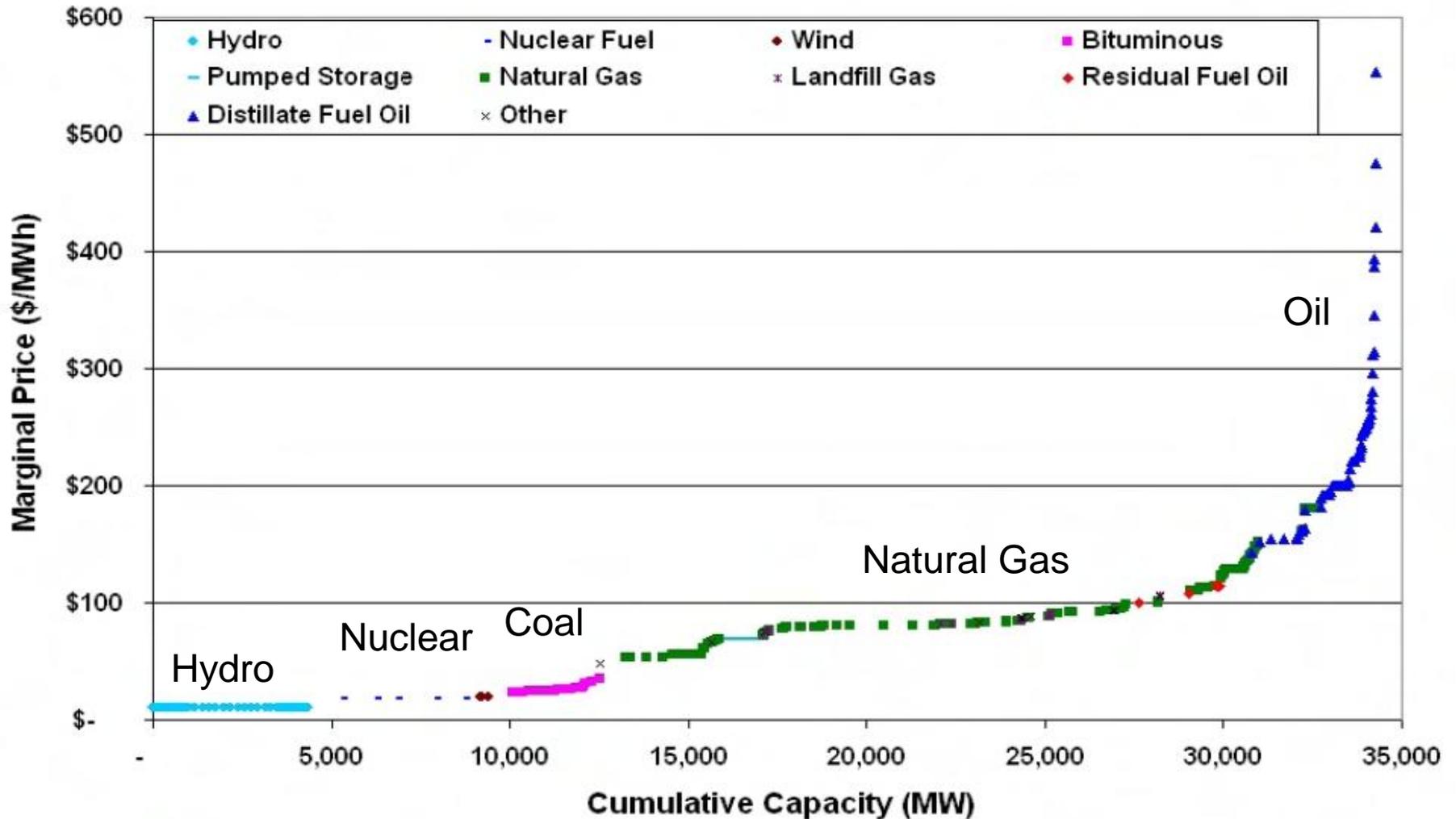
- **Established as a not-for-profit public benefit corporation in 1975.**
- **300 employees; three locations (Albany, New York City, Buffalo)**
- **Four major departments :**
  - Residential Energy Affordability Program**
  - Energy Efficiency Services**
  - Energy Analysis**
  - Research and Development**
- **\$500 million annual budget**
- **System Benefits Charge (SBC) Program**
- **Regional Greenhouse Gas Initiative (RGGI)**
- **Renewable Portfolio Standard (RPS)**

# Valley and Mountain of Death

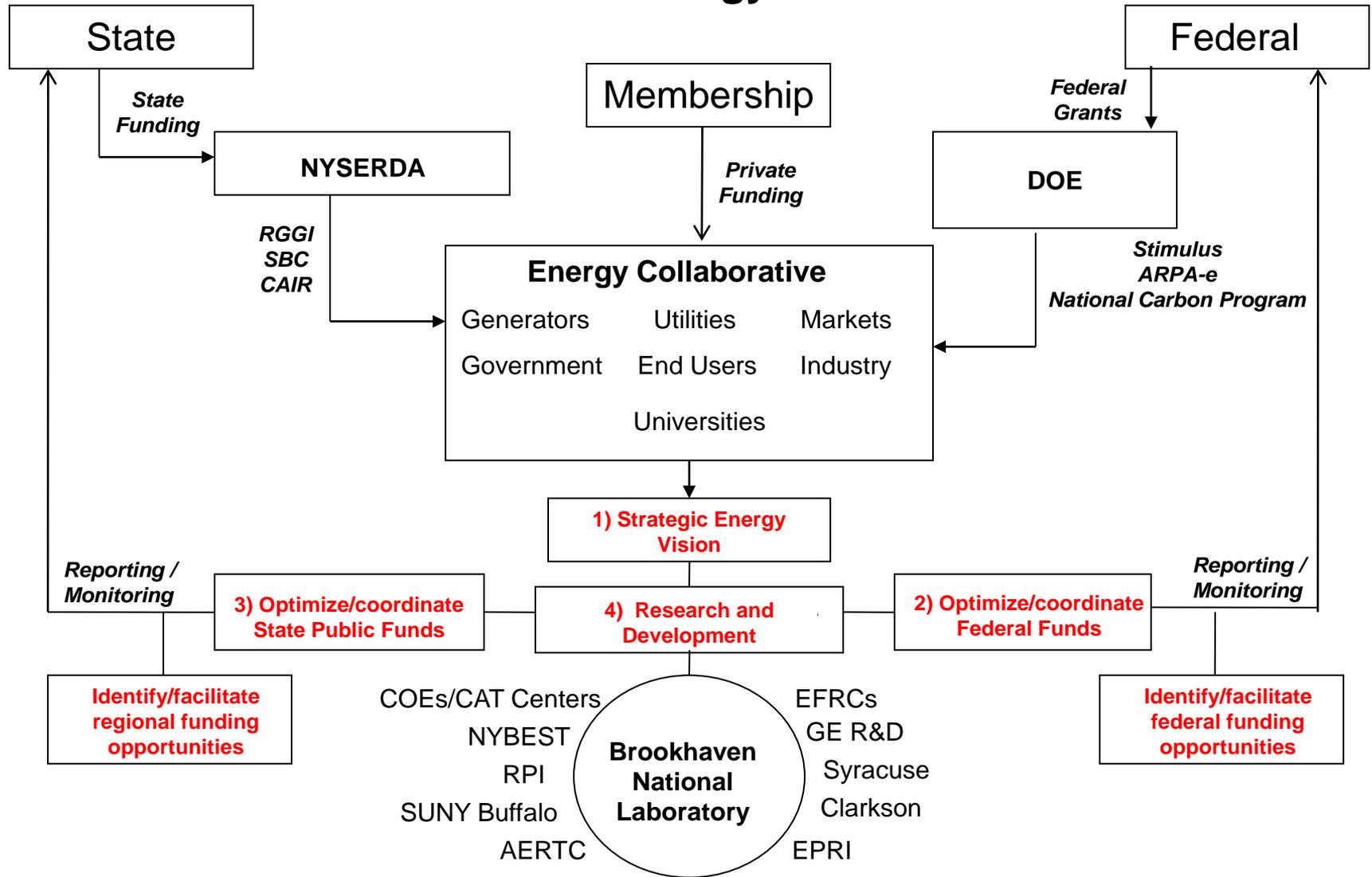




# New York State Electric Energy Commodity Market



# Collaborative Energy Framework



## A Sample of NYSERDA Funded Smart Grid Projects

- 1) **NYSEG:** Compressed Air Energy Storage Project
- 2) **Con Edison:** Project Hydra (Superconducting cable)
- 3) **Brookfield Power:** Dispatchable Green Energy Integration (Biodiesel)
- 4) **Beacon Power:** 20 MW Flywheel Demonstration Project
- 5) **NYISO:** NY Phasor Measurement Network
- 6) **Alcoa:** Industrial Demand Response

## Guiding Principles

- 1) There must be ample and sustained support for early stage research and exploratory development.
- 2) The research program must address the full range of energy challenges from supply to end-use.
- 3) Cost, performance, and environmental impact must be considered at every stage of development.
- 4) A multi-year plan must clearly establish a role for governments, industry, universities, and laboratories.
- 5) All later-stage developments must be carried out on as close to commercial terms as possible.
- 6) All initiatives must develop technologies attractive to both domestic and foreign companies/investors.

# Thank You

Please visit the website ([www.nyserdera.org](http://www.nyserdera.org))



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