

# The Strategic Role of States in Clean Energy

## New York State Experience

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 **NYSERDA** New York State Energy Research and Development Authority

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


- Public Benefit Corporation whose mission is to:  
*Identify innovative energy solutions in New York State in ways that benefit the State's economy and environment*
- Current annual investment in energy efficiency, renewable energy, and energy R&D: over \$400 Million
- Current administrator of:
  - System Benefits Charge Program (New York Energy \$mart)
  - Renewable Portfolio Standard (RPS)
  - Regional Greenhouse Gas Initiative Allowance Auction
  - R&D program since 1975

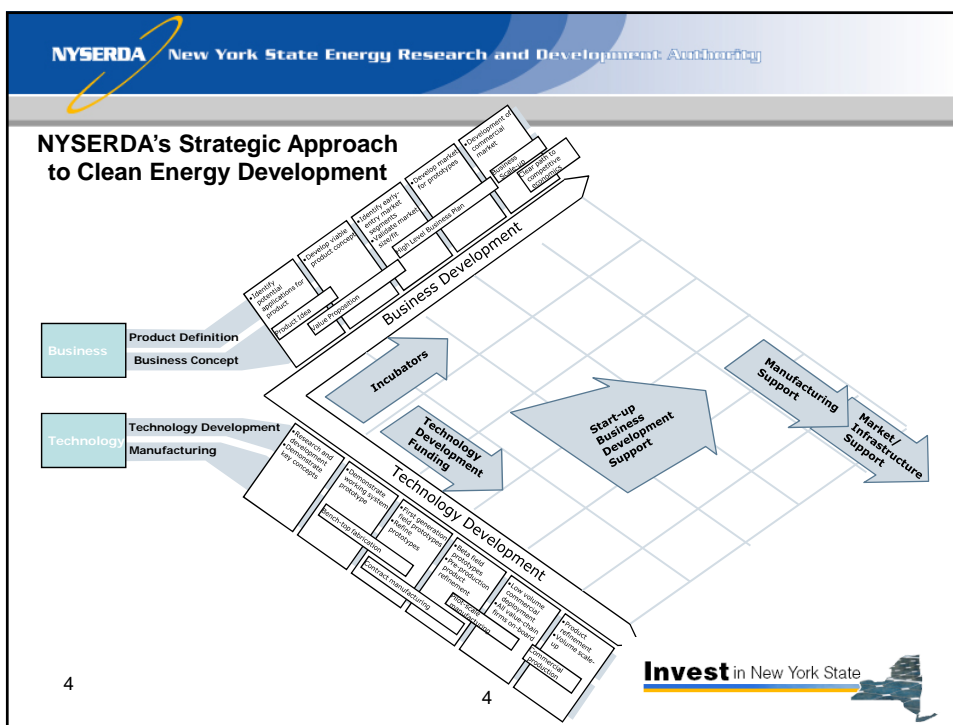
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## New York State Energy Policy Context:

*Moving to a Sustainable Energy Future*

- Regional Greenhouse Gas Initiative
- Renewable Portfolio Standard
- 15\*15 Energy Efficiency Goal
- Renewable Energy Task Force

**Invest** in New York State 





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## Highlight of NYSERDA Results: Clean Energy Development = Economic Development

- Deployment of Renewable Energy Technology
  - **Central Power:**
    - 1100 MW new renewable energy capacity under RPS contract w/ NYSERDA; 30 facilities; 3.5 GWh; \$ 2 billion in direct economic benefits to NYS over life-of-project
    - For every \$1 we invest in large-scale renewable power production, \$3.8 in direct economic benefits will be realized in NYS
    - Over 8000 MW in the ISO queue in NYS ready for development
  - **Customer-Sited renewables:**
    - 1800 PV systems installed – 13 MW; robust installer market
    - 16 biogas-to-electricity systems operating in NYS; 21 more under development through RPS (7MW+); Small Wind -165 kW; Fuel Cells – 910kW
    - Strong consumer demand
- Technology and Product Development
  - NYSERDA R&D funds have helped commercialize dozens of energy efficient and clean energy products
  - For every \$1 invested by NYSERDA in product development, \$3 in economic benefits are realized in NYS

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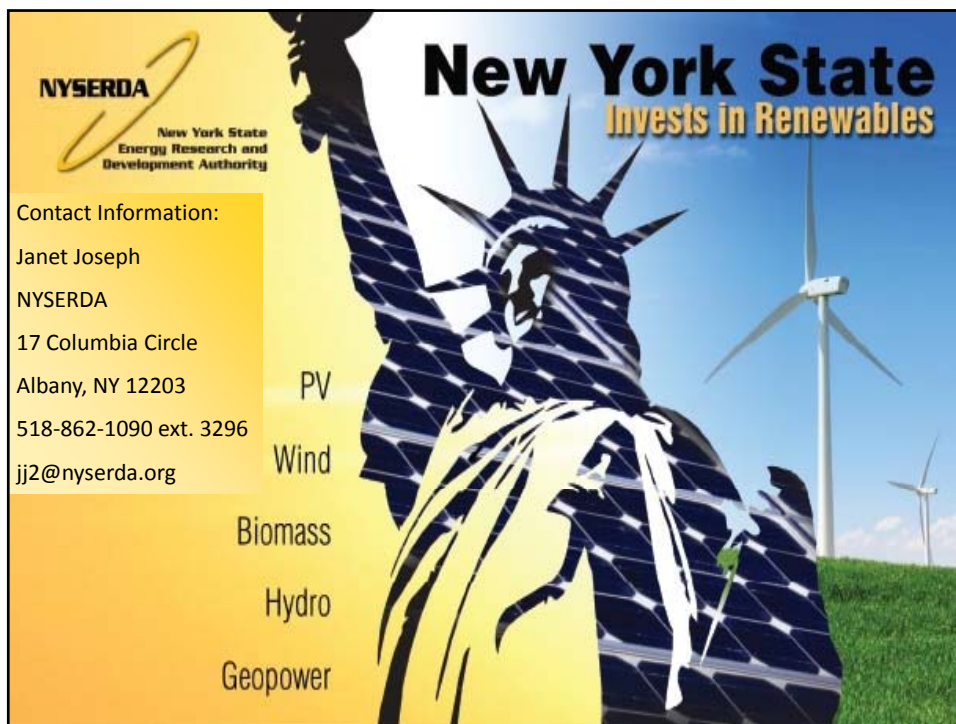


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## Future Opportunities and Challenges

- Growing *global* investment in “CleanTech” - need to capture benefits for the *U.S. economy*
- Growing *consumer demand* for clean energy technology
- Challenges: need a carbon price signal, stable tax incentives, investment in transmission, mobilization of capital, and sizable investments in new technology development to sustain progress
- Substantial capacity in the States to advance a clean-energy economic development agenda
- Federal-State partnerships needed to leverage resources and meet energy challenges!!

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Wind  
Biomass  
Hydro  
Geopower

**New York State**  
**Invests in Renewables**

The background of the slide features a stylized Statue of Liberty where the crown and dress are composed of solar panels. In the background, there are wind turbines on a green field under a blue sky.