

Growing Northeast Ohio's High Tech Economy

National Academy of Science

February 2010



About NorTech

NorTech, the Northeast Ohio Technology Coalition, is the **Champion** for growing the high tech economy in Northeast Ohio.

We are the only organization that focuses solely on our high tech economy, across all sectors.

We have one, unwavering purpose: **To champion success in Northeast Ohio's high tech economy.**

How? We marshal resources and forge collaborations to drive growth.

Sector Roadmaps

CURRENT STATE



“TO BE” STATE (10 years)



- Led by NorTech, developed collaboratively with stakeholders throughout NEO and beyond
- Articulates and communicates the shared regional vision
- Serves as the “game plan” for the region
- Forms the basis of our “pitch” for the region
- Dynamic tool to guide individual strategies & align regional priorities

Government Engagement

- Catalytic role in expanding state & federal funding with focus on technology
- Working with partners, identified gaps & needs
- B&D Consulting mapping out specific opportunities
 - Advanced energy
 - Innovation & entrepreneurship
 - Manufacturers in transition
 - Support for incubators
- Outcome Metric: \$10M additional federal funding
- Ohio Third Frontier

NorTech's Advanced Energy Initiative



A diagram illustrating the structure of NorTech's Advanced Energy Initiative. At the top is a blue roof-like shape. Below it is a green rectangular base. On the left side of the base is a light green column labeled "Center of Gravity". On the right side is a light green column labeled "Portfolio Projects". Between these columns is a blue rectangular box containing the mission statement. The entire structure is set against a white background.

**Accelerate commercial activity in advanced energy in Northeast Ohio
in order to create positive economic impact in the region**

Center of Gravity

- Set vision & regional strategy
- Host educational events
- Convene collaborators
- Track cluster performance
- Promote & market the region
- Track funding opportunities

- Lead and champion projects
- Attract resources & talent
- Provide strategic guidance
- Recruit collaborators
- Assist in grant writing
- Produce market research

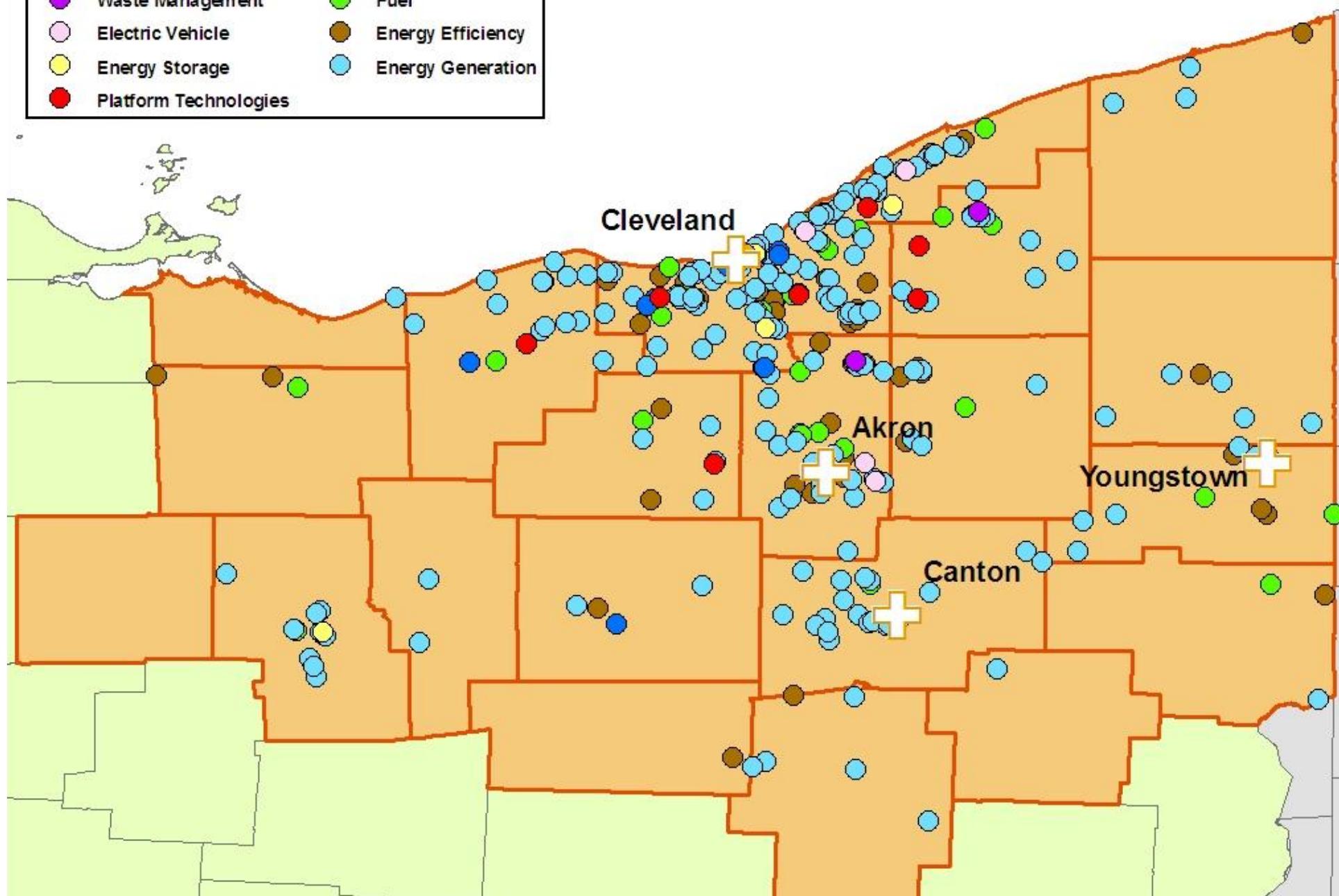
Portfolio Projects

**Northeast Ohio Advanced Energy Assets
Global Market Opportunities**

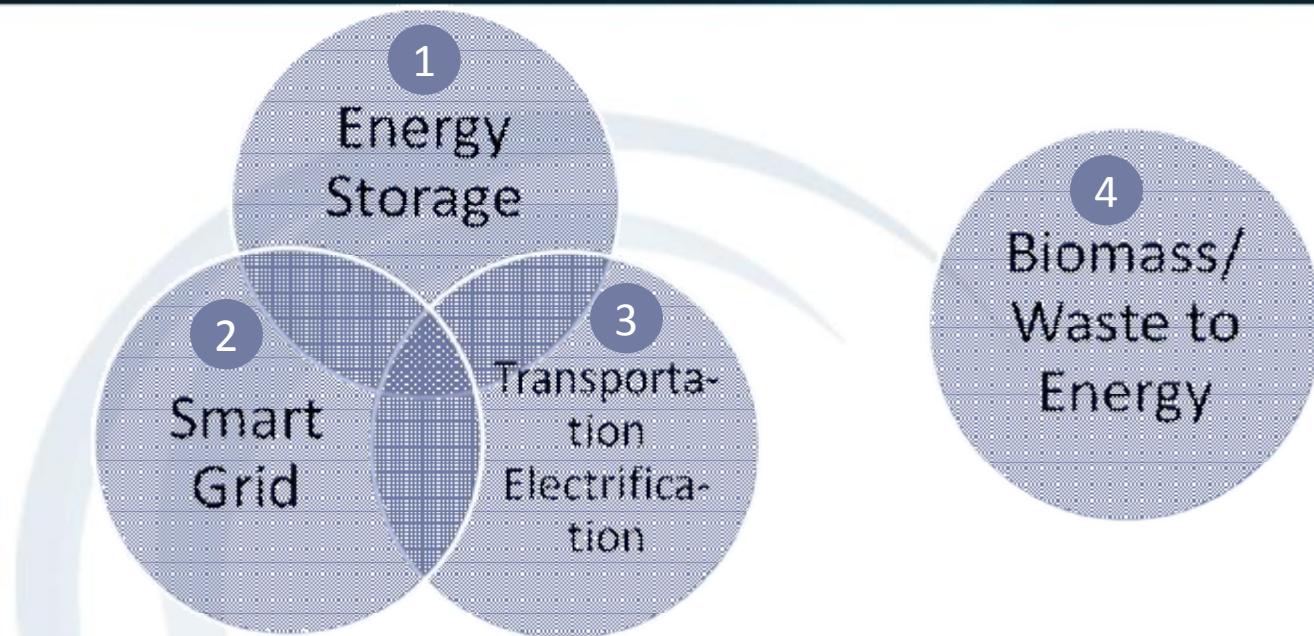
Advanced Energy Sectors

Workforce Development	Multi-sectors
Waste Management	Fuel
Electric Vehicle	Energy Efficiency
Energy Storage	Energy Generation
Platform Technologies	

www.NorTech.org/OurStrengths/AdvEnergy



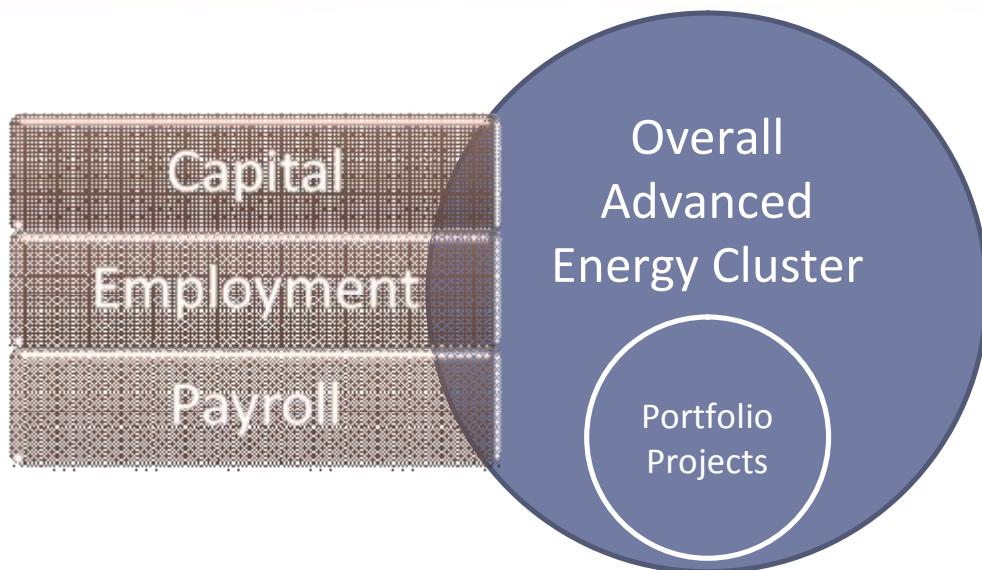
Road Mapping Targets



- Natural synergies emerged in 3 sectors
- Additional sectors can be examined in subsequent phases
- Can still take on smaller scale, exploratory projects in other sectors without full blown road map

Advanced Energy Initiative

NorTech Energy Enterprise



METRIC	CLUSTER	PROJECTS
Capital	\$75 million	\$25 million
Employment	600 jobs	150 jobs
Payroll	\$42 million	\$10.5 million

2 Year Metrics (30 months after launch, allows for 6 month ramp-up)

Flexible Electronics Initiative

NorTech FlexMatters

Goal: To cultivate a flexible electronics cluster

- Electronic devices that bend and fold such as displays, photovoltaics, batteries, and sensors.
- Fabricated using a full range of flexible materials (organic, inorganic, hybrid) and processes (printing and vacuum; batch and roll-to-roll)
- Enabling a broad range of possible end-use applications for consumer, industrial, healthcare, and military markets.

Flexible Electronics Initiative

NorTech FlexMatters

Outcome Metrics:

- Completed roadmap (July 2010)
 - Will give definition to next steps and metrics
- 10 Jobs
- \$700,000 in payroll
- \$2M in capital attraction