

FACT SHEET

2015 CLEAN ENERGY TECHNOLOGIES INNOVATION METRICS



cleantech – technologies that generate commercial benefits to customers while addressing environmental concerns, such as global climate change, sustainability, and energy security.

Report focus:

- > renewable energy generation
- > energy storage
- > efficiency (energy and building)
- > transportation

New York State *consistently ranks in the top five states* for programs committed to cleantech innovation and growth, which is a critical component of Reforming the Energy Vision (REV), New York’s strategy to build a cleaner, more resilient and affordable energy system for all New Yorkers. According to the 2015 *Clean Energy Technologies Innovation Metrics* report, New York ranked:

- ▶ **2nd** largest budget for electric and gas efficiency
- ▶ **3rd** number of cleantech patents awarded
- ▶ **3rd** total venture capital dollars invested
- ▶ **3rd** Technology Fast 500 companies

NY cleantech companies jumped from 11th to

- ▶ **5th** cleantech venture capital dollars attracted*

New York State’s leadership in cleantech innovation is creating a robust cleantech economy, protecting the environment, and creating jobs. This results in a cleantech market that is poised for growth.

* Relative to the 2012 edition of the New York State Clean Energy Technologies Innovation Metrics report.



REAL METRICS TO TRACK GROWTH

The report uses verifiable data to track indicators of progress of New York State's cleantech industry in four categories. The data provides a snapshot of business performance in New York.

The following indicators track how well New York's companies, universities, and government labs are generating new ideas, clean technologies, intellectual property, and venture capital compared to other states.

Research & Innovation

- 3rd in total university research and development (R&D) expenditures.
- 3rd in the number of clean technology patents awarded.
- 3rd in competitive R&D funding (\$940 million) from the U.S. Department of Energy (DOE).
- 5th in battery/energy storage patents.

Business Environment

- 2nd in science, technology, engineering, and math degrees granted.
- 3rd in total venture capital dollars invested.
- 3rd in energy infrastructure patents (e.g., power transmission, smart grid, and smart meters).
- 5th in cleantech venture capital dollars invested (\$566 million in 2014 and \$11 billion from 2010-2014).

Industry Development

- 3rd in Technology Fast 500 companies (a ranking of private technology companies in North America by revenue growth).
- 3rd in private sector Green Goods and Service jobs.
- 4th in the number of cleantech companies, with noted strength in solar, energy efficiency and advanced materials.

Clean Energy Market

- 2nd largest budget for electric and gas efficiency (\$889 million in 2014).
- 4th in the number of alternative fuel vehicles.
- 5th in total renewable energy consumption (410 million Btu, 11% of the State's total energy consumption).
- 6th in the total number of net metering customers.

NEW YORK STATE — WHERE INNOVATION, INVESTMENT, POLICIES, AND MARKETS COME TOGETHER

As REV advances and drives the State to a cleaner, more resilient, and affordable energy system, New York is creating one of the most important markets globally for innovative clean energy solutions.

Read the 2015 New York State Clean Energy Technologies Innovation Metrics Report at nyscrda.ny.gov/tracking-cleantech

The *Clean Energy Technologies Innovation Metrics* report tracks the development of New York State's cleantech industrial base and innovation system. The report shows how New York ranked among the other 49 states in the following categories: Research and Innovation, Business Environment, Industry Development, and Clean Energy Market.