

Leveraging ArcGIS Online to Inventory Supply Side Organizations in New York State's Clean Energy Economy



Services / Expertise

Geospatial & Data Solutions
Database Application Development
Story Mapping
ArcGIS Online

Markets

State Government
Renewable Energy

Project Location

Montpelier, Vermont

Date Completed

December 2016

Project Owner

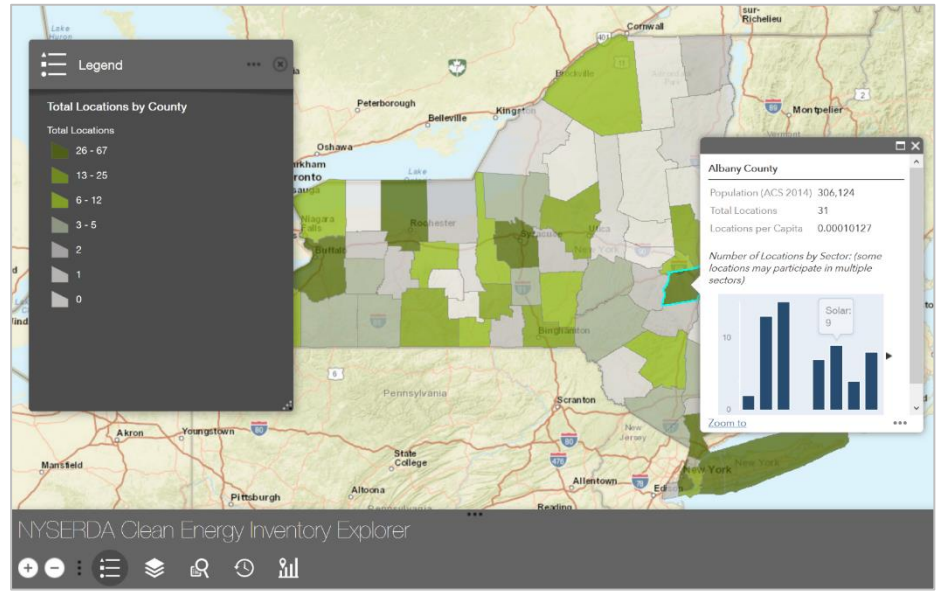
New York State Energy Research and Development Authority

Project ID#

2015-138

Project Manager

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STONE worked with Meister Consultants Group, Inc. to create a detailed geo-coded inventory of clean energy organizations in New York State and conduct a comprehensive clean energy cluster analysis. We developed a secure, web database to streamline inventory development and sharing throughout data development, data review, and the QA/QC process. The database was pre-populated with business information provided by the New York State Energy Research and Development Authority (NYSERDA), and additional, detailed information was obtained by research consultants through online research and phone calls. Field validation and choice lists were used throughout the database to ensure consistency and avoid misspellings and data entry errors.

Given the project's requirements for extensive data entry and multiple data entry forms, in addition to the project's limited resources for database development, Stone utilized the Knack database platform. The Knack platform provided for an easily customizable interface that could be quickly modified as data entry requirements changed. In addition, the platform has sophisticated user permissions capabilities that were implemented to allow users access only to their records and to specific content in the database.

Following data collection, a secure ArcGIS Online web mapping application was developed for internal NYSEDA staff to map, explore, and visualize the results of the clean energy inventory. The inventory data was summarized by geographic regions, including counties, regional economic development council zones, and census core-based statistical areas to help visualize hot spots of renewable energy industry activity across the state. The application includes tools to query, identify, and visualize industry activity over time.

