Northeast Hydrogen Infrastructure Development Initiative

Hydrogen and Fuel Cell Technical Advisory Committee (HTAC)

November 15, 2012

Washington DC

Northeast Hydrogen Infrastructure Development Initiative

Goals:

- Development of Hydrogen Infrastructure
- Deployment of Fuel Cell Electric Vehicles

Outcomes:

- Reduce dependency on foreign oil
- Increase the use of domestic fuel
- Enhance environmental profile
- Promote technical innovation
- Increase economic opportunities for US Companies

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Stakeholders

- Automakers
- Hydrogen Producers and Distributors
- Government and Non-Governmental Organizations
- Original Equipment Manufacturers

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The U.S. Department of Energy is supporting the Northeast Initiative through the National Renewable Energy Laboratory:

1. Market Adoption Regions
2. Fuel Cell Electric Vehicle (FCEV) Deployment Rates
3. Station Placement Requirements
4. Deployment Dynamics
5. Cost Analysis

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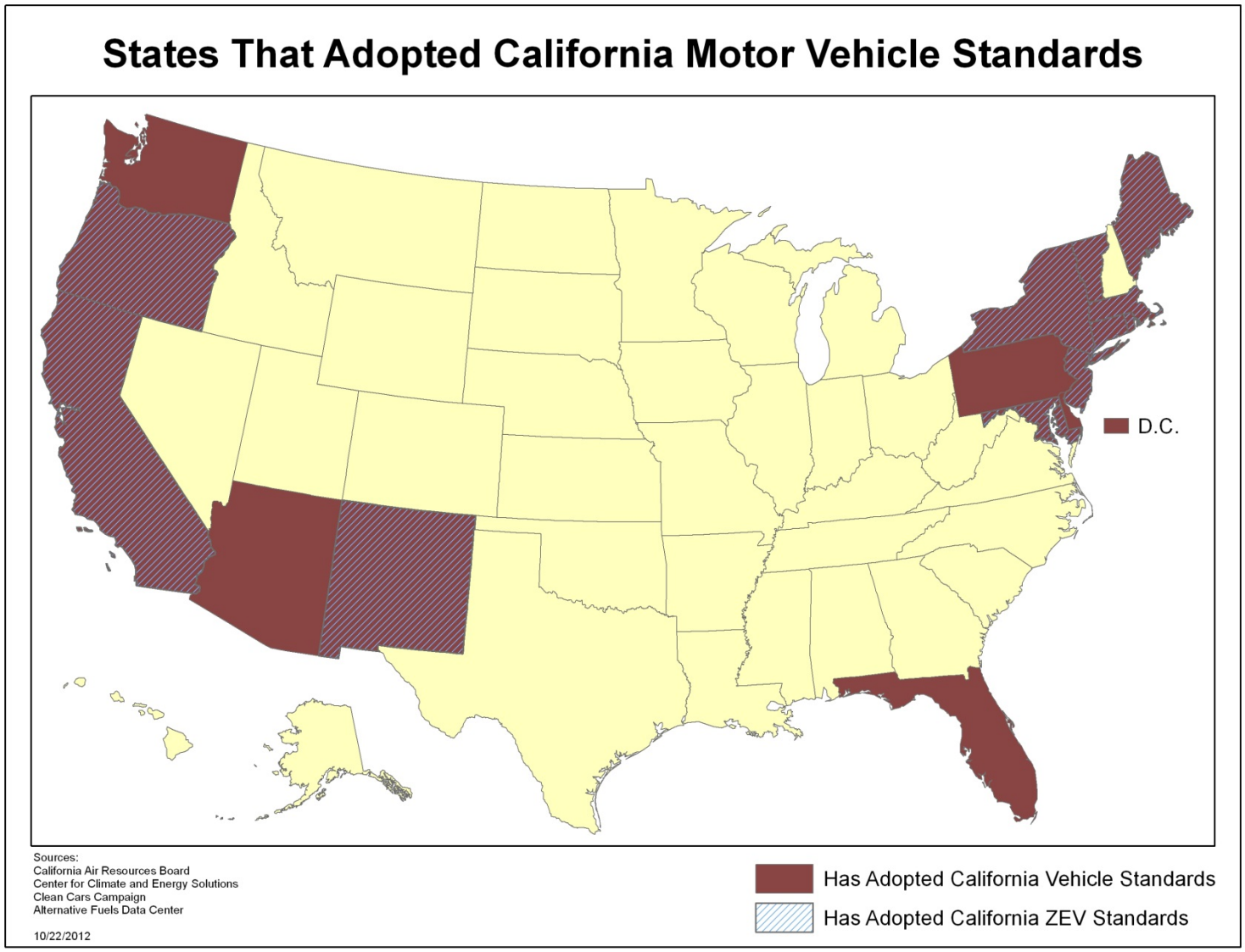

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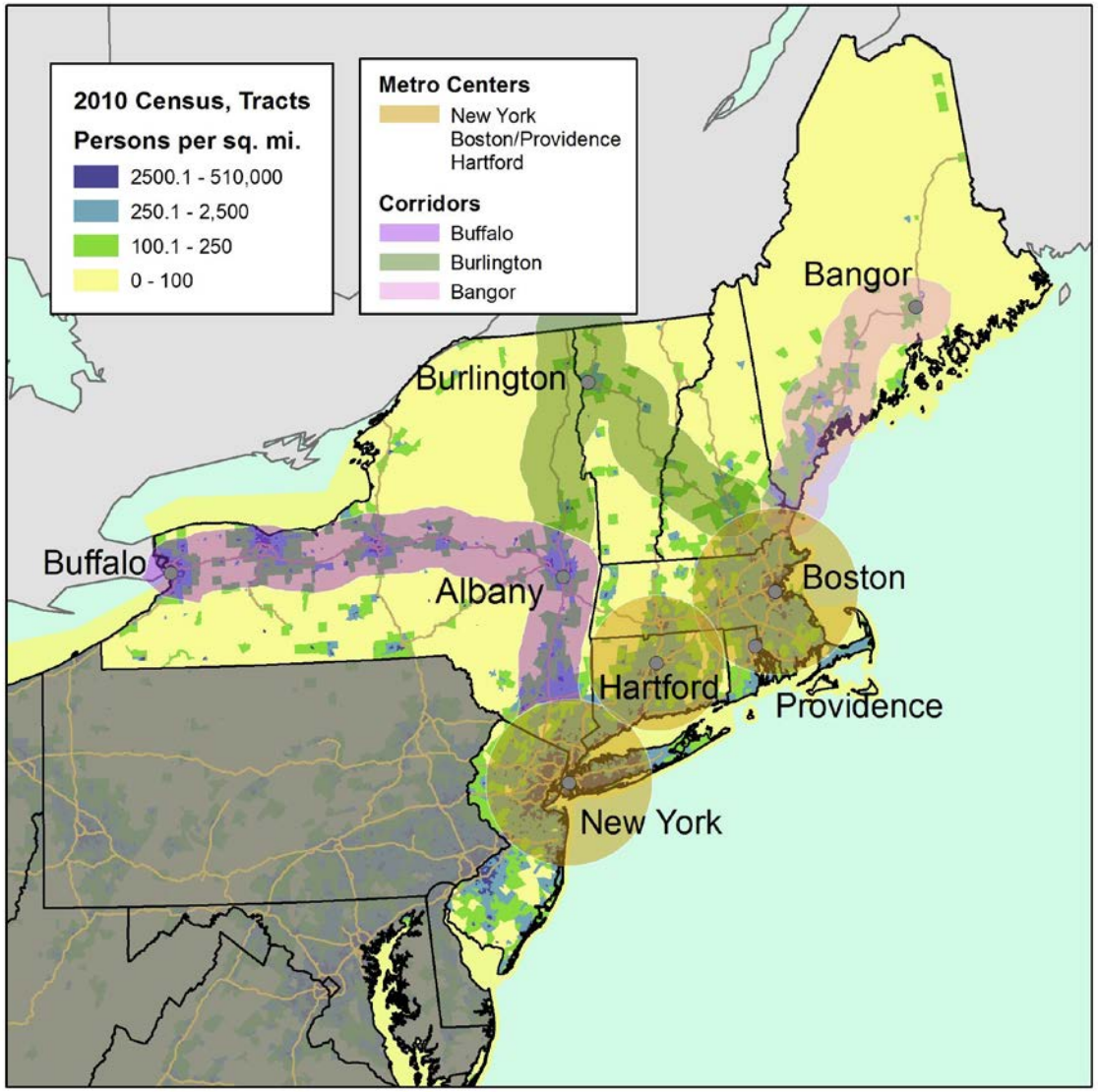
Preliminary

Highest population density Metro Centers

- New York City
- Boston/Providence
- Hartford



Source: Metrics for a Northeast Corridor Hydrogen Roadmap: Preliminary Results, NREL, November 7, 2012

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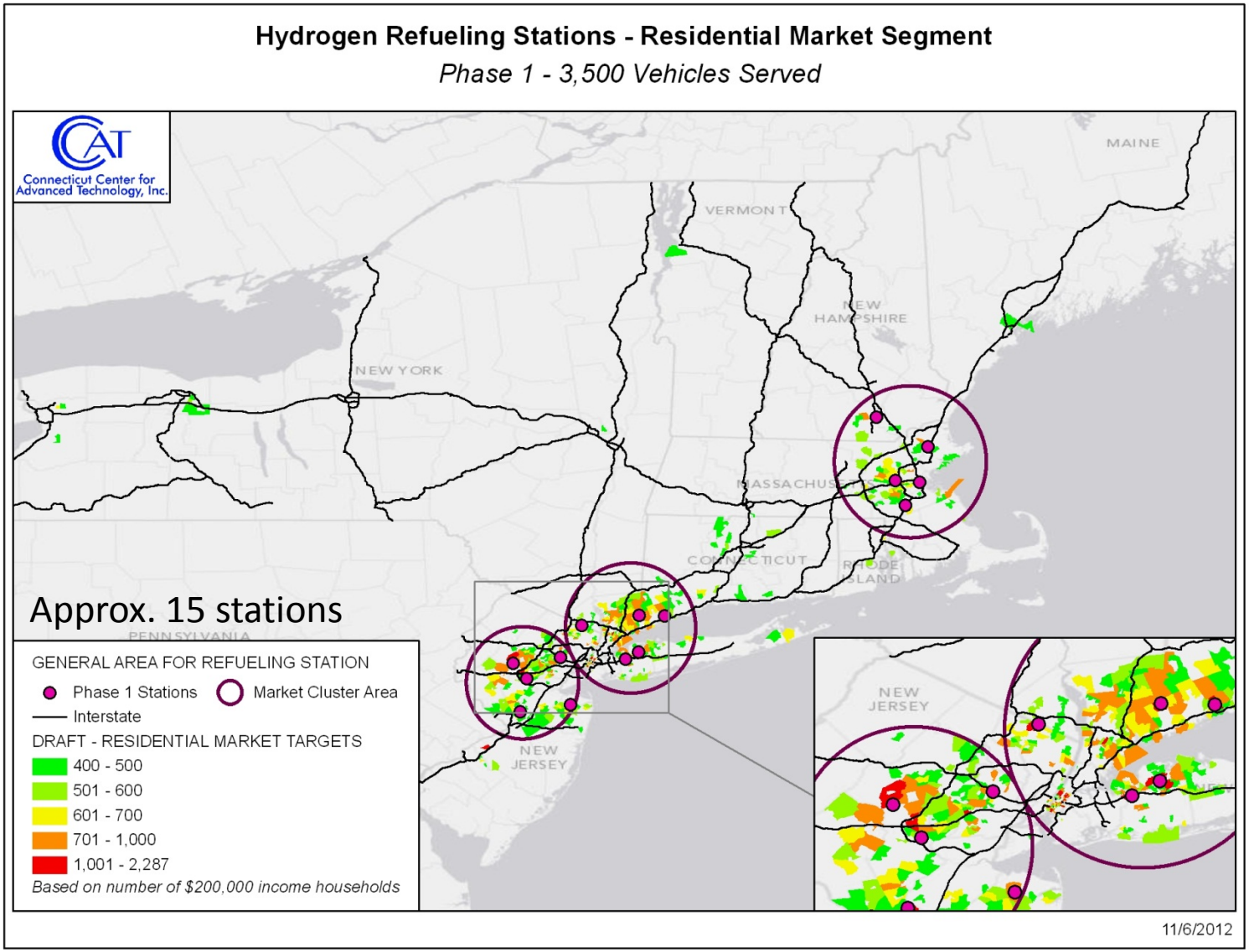

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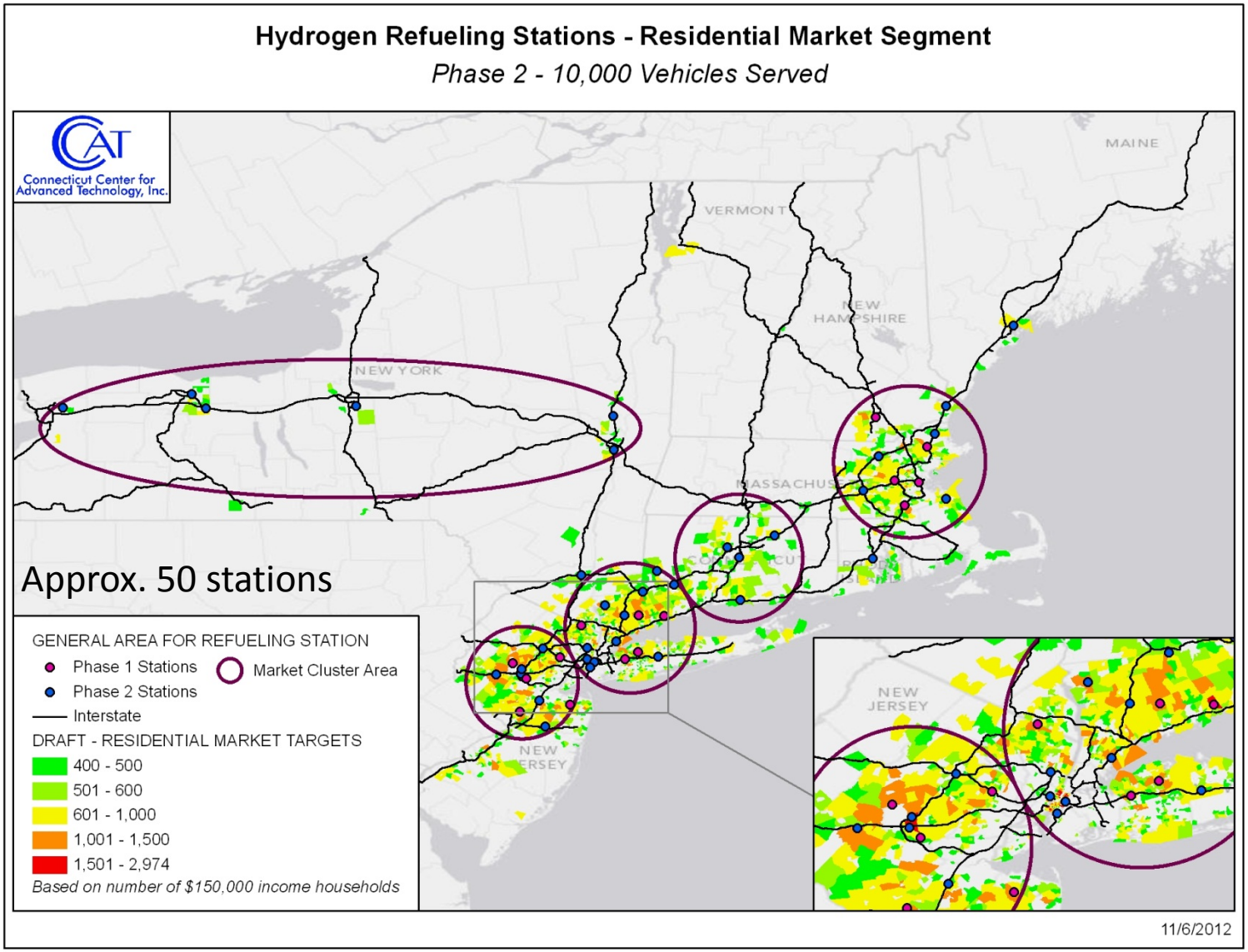

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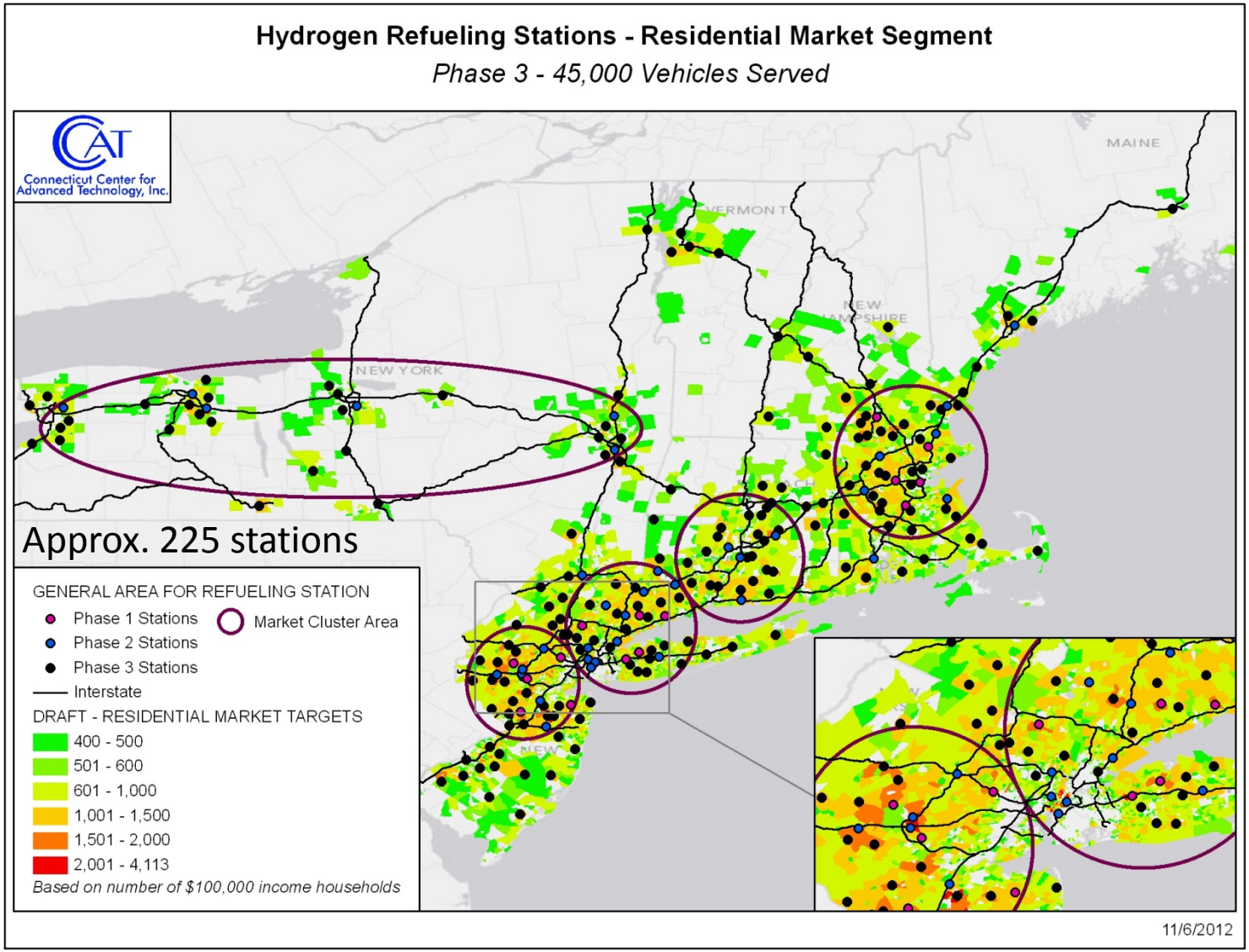

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Global Activity:

"Gas suppliers and oil companies say they will seek to build some 100 hydrogen supply stations at four major city areas [in Japan] to prepare for the launch of mass-produced hydrogen-powered fuel-cell vehicles in 2015" …
The Japan Times Online, Jan. 2011

"Germany's hydrogen refueling infrastructure [will be] expanded from the current 14 stations to a total of 50 sites by 2015, as research and development projects under the National Hydrogen and Fuel Cell Technology Innovation Programme (NIP)." … **FuelCellToday,** June 2012

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Summary:

- **Activities:**
  - Modeling and analysis
  - Planning
  - Industry coordination
- **Outcomes:**
  - Regional deployment of FCEV and hydrogen infrastructure
  - Reduced import and use of foreign oil
  - Increased use of domestic fuel
  - Technical innovation and economic development
- **Needs:**
  - Federal guidance
  - Administrative / technical support
  - State engagement

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