

Climate Smart Communities Webinar

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- 1-866-394-2346
- Code: 1982360347#
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Climate Smart Communities Webinar

January 8, 2014

Getting to Net-Zero Energy Homes



This webinar will begin shortly. Please be considerate of your fellow attendees:

- Please mute your phone to reduce background noise
- If you need to take an incoming call, please hang up this line first, and then pick up the incoming call
- Please do not put your phone on hold at any time.
- To ask a question, please type your question or comment in the chat box feature.

Welcome

Kim Farrow

Environmental Program Specialist

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New York State

Department of Environmental Conservation



Climate Smart Communities Webinar

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Climate Smart Communities Webinar

Website Address



<http://www.dec.ny.gov/energy/50845.html>

Climate Smart Community Webinars

Schedule: <http://www.dec.ny.gov/energy/86246.html>

- February 12, 10:30 a.m. *NYSDOT Flooding Vulnerability Assessment*
- March 12, 10:30 a.m. *Mobilizing Regional Climate Action*

Events

- March 11, 2015, 3:00 p.m. *Audio/Web Conference: Urban Design, Sustainability, and the Environment Lecture*. American Planning Association.
<https://www.planning.org/cm/search/event/?EventID=27743>
- Stormwater Training Series. Central New York Planning and Development Board. See website for course descriptions and schedule:
<http://www.cnyrpdb.org/stormwater/?2015-Stormwater-Training-Series-155>
- NY-Sun Workshops. Statewide. See NYSolar Smart newsletter for workshop descriptions and schedule:
<http://www.cuny.edu/about/resources/sustainability/nyssolar.html>

Beginning the Certification Process



1. Review certification materials
2. Designate a project coordinator
3. Get organized
4. Gather publicly available information
5. Request materials from local government staff

Recommendation: Start with priority actions – see “First Steps” resources guide at

www.dec.ny.gov/energy/96532.html .

Getting to Net-Zero Energy Homes

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Katie Borgella
Tompkins County Planning Department

Liz Walker
EcoVillage at Ithaca

Kendall Carpenter
AquaZephyr

Best Practices for Communities That Work



Katie Borgella

Tompkins County – Energy and GHG Emissions Planning

- Comprehensive Plan - 80% ghg reduction by 2050
- Cleaner Greener Southern Tier
- 2020 Energy Strategy
- FEMA Hazard Mitigation Plan – adaptation
- 2015 Energy Roadmap

Reaching 80% Reduction in GHG Emissions by 2050

Half of all ghg emissions are from building heat/light

Most will need expensive energy retrofits in future

Why are we building houses that will need retrofiting?

Two development proposals came across our desks

Building Community That Works

An EPA Climate Showcase Communities Project

Energy Efficient Houses

- **78% reduction** in ghg emissions over typical Tompkins household
- **92% reduction** for those with PV
- Several are **net-zero**

Take Home Message:

Practical technologies and building methods are available to dramatically reduce greenhouse gas emissions in new housing

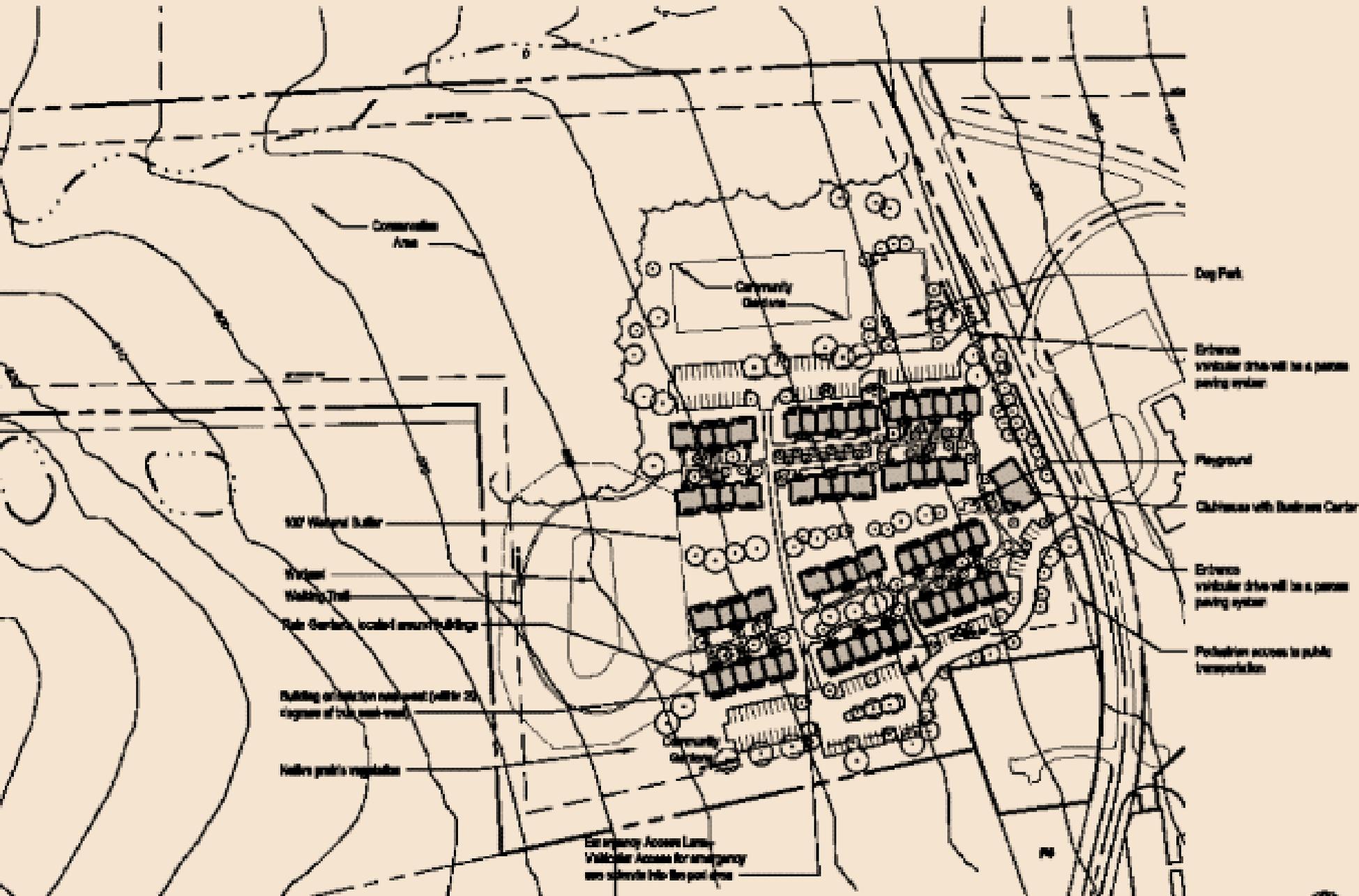
EcoVillage at Ithaca – Third Neighborhood (TREE)



Aurora Pocket Neighborhood



Cayuga Trails



SCALE: 1"=15'



What makes these communities resilient?

- Emit fewer greenhouse gases
- Build stronger community ties – balance privacy and community
- Use fewer resources – energy, water, reuse, shared amenities

“These are the most air-tight and energy efficient homes I have ever seen, and they use simple, standard construction techniques, making them easy for other builders to replicate.”

- NYSERDA Inspector

Pedestrian Neighborhood Zoning

- Design for energy conservation
- Design for solar access
- Human scaled
- Density of at least 10 dwelling units per acre
- Transit-accessible location
- Walkable
- Shared outdoor space
- Parking at the perimeter
- Integrated into the overall context

Contact Information

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