

Transitioning to a Green Energy Economy: How Municipalities Can Benefit

Cosponsor Resource List

Alliance for a Green Economy (AGREE): AGREE works for safe, affordable energy and the development of a green economy in New York State. AGREE promotes a transition to a carbon-free and nuclear-free energy system and educates the public and policy makers about alternatives that can revitalize the economy and safeguard human health and the environment. AGREE has particular expertise in nuclear power and nuclear decommissioning and can provide experts and speakers on those topics. AGREE is also a resource for individuals and groups advocating energy policy that promotes alternatives to both nuclear power and fossil fuels. Contact: Jessica Azulay, (315) 480-1515, jessica@allianceforagreenconomy.org www.agreenewyork.org

Abundant Efficiency: Develops and implements innovative programs to address sustainability challenges and opportunities on behalf of its clients. Leveraging financial and business expertise to maximize both environmental and financial benefits, AE specializes in aligning interests and forging consensus among diverse stakeholders in complex projects. AE delivers best practices using local resources, assembling project teams for client engagements from a wide network of Mid-Hudson based sustainability experts. Contact: nina@abundantefficiency.com www.abundantefficiency.com.

Center for Research Regional Education and Outreach (CRREO): Independently and in collaboration with local governments, business and not-for-profits in the Hudson Valley, the Center for Research, Regional Education and Outreach's (CRREO) research mission is to: conduct studies on topics of regional interest; bring visibility and focus to these matters; foster communities working together to better serve citizenry; and advance the public interest in our region. In addition to Regional Education, a number of well established, regionally oriented New Paltz programs and activities have been assembled under the aegis of CRREO. These include: the Institute for Disaster Mental Health (IDMH), the Legislative Gazette, the Language Immersion Institute (LII), University in the High School, One Book, One New Paltz, A Solar Hudson Valley: Toward Further Progress and Energy Action Consortia: Moving Municipalities Toward Collective Sustainability. www.newpaltz.edu/crreo/

Central Hudson: As a Hudson Valley electric and natural gas utility, Central Hudson offers an array of energy efficiency programs to encourage residents, businesses and municipalities to take steps to lower energy use, reduce costs and protect the environment. Examples include a lighting retrofit program, incentives for turning in older air conditioners and refrigerator/freezers, and rebates for high-efficiency heating and cooling systems. Central Hudson also encourages the use of on-site renewable generation through a net metering program for solar, wind and biomass resources. More information on these programs is available at www.CentralHudson.com.

Citizens for Local Power (CLP): Citizens for Local Power is a grassroots citizens' group working to create a locally-based clean energy economy. CLP was founded in early 2013 to oppose the takeover of Central Hudson by Canadian holding company Fortis, Inc. Working with municipalities, elected officials, labor, and individual citizens, CLP won better terms for workers and communities and galvanized interest in strengthening local control over energy decision-making. Currently, CLP is working with local elected officials to form a Municipal Energy Consortium to increase energy independence and security and foster the transition to a clean energy economy in the mid-Hudson region. Contact: Susan Gillespie (susan.h.gillespie@gmail.com), Jen Metzger (jenmetzger@yahoo.com), or Dawn Meola (dawnmeola@hvc.rr.com).

Courtney Strong: Under NYSEDA's Economic Development Growth Extension Program (EDGE), Courtney Strong Inc. helps municipalities to: 1) identify their energy efficiency and renewable energy opportunities; 2) match their needs with available state resources; 3) help them to apply for state assistance through the Consolidated Funding Application; 4) connect their taxpayers with NYSEDA residential and business programs, thus delivering a value add to those served by the municipality; 5) help grow the local workforce by connecting residents to NYSEDA training opportunities for Home Performance professionals and renewable energy installers. www.courtneystrong.com

Croton Energy Group (CEG): CEG is a non-profit organization that focuses on sustainable energy projects within the Hudson Valley and New York City. They provide energy analysis services to clients, as well as engagement services that strive to send a message to stakeholders about adopting clean energy practices. CEG's Energize New York Program assists municipalities raise awareness about converting residential homes to operate more efficiently and utilize clean energy. For more information contact Leo Wiegman at lwiegman@crotonenergy.com or go to www.crotonenergy.com

CUNY Institute for Sustainable Cities (CISC): The CUNY Institute for Sustainable Cities (CISC) works to realize cities as part of the solution to global sustainability challenges. By merging the science of sustainability with innovative public programming, we examine opportunities available to cities—and their residents—for proactive responses to on-going environmental change. We

harness the potential of formal and informal means to inspire a new generation of environmental thinkers. In doing so, we seek to understand and influence the evolution of the urban environment, while connecting the CUNY community, decision makers and the general public to these critical issues. CISC explores the nature and complexity of cities through several themes: Consumption -- what are the elements, patterns, and impacts of urban consumption and how do they change over time? Vulnerability and resilience: how are cities impacted by global environmental change and what are their response capacities? Ecosystem services: What services do urban ecosystems provide to cities and how can their maintenance and restoration benefit urban areas? Simon Gruber is based in Orange County, NY and works with CISC and other organizations on sustainability, green infrastructure, energy efficiency, urban forestry, watershed planning, climate change and resilience. Contact Simon Gruber, Fellow, CUNY Institute for Sustainable Cities, sgruber100@verizon.net, 845-534-5622 <http://www.cunysustainablecities.org>

EnergizeNY/EIC: Energize New York is a community-based program that was founded through grants from the Department of Energy (DOE) and NYSERDA to scale the demand for energy efficiency and renewable energy improvements in buildings. The program and its staff operate within the Energy Improvement Corporation (EIC), a NYS Not-for-Profit Local Development Corporation whose mission is to save money and reduce the waste of energy by enabling energy related improvements through community based outreach and marketing efforts and innovative financing options. Energize NY Residential promotes and supports the Home Performance with ENERGY STAR program in the communities of northern Westchester. Energize NY Commercial supports NYSERDA's Multi Family and Commercial/Industrial Programs. Energize NY Finance is a program developed by the EIC to offer Property Assessed Clean Energy (PACE) financing for energy improvements in commercially owned properties within Member Municipalities* across New York State. For more information, please contact (914) 302-7300, info@energizeny.org or visit our website at www.EnergizeNY.org

Green Guru Network: Aggregates information about resources for green businesses, funding opportunities, local green dream jobs, great green networking events, and showcases green thought leaders in the Hudson Valley. Contact Lea Cullen Boyer at Lea@greengurunetwork.com or go to www.greengurunetwork.com

Hudson River Sloop Clearwater: Clearwater protects the ecology of the Hudson River and the well-being of everyone living in its watershed through inspiration, education and advocacy. We also work to empower the next generation of environmental leaders and to green our cities. This includes promoting a transition to a Green Energy Economy, with the good, lasting jobs this will create, to mitigate climate change and strengthen communities. Clearwater actively participated in helping to develop the energy section of the Mid-Hudson Sustainability Plan, and has coordinated many educational conferences on topics related to Clearwater's mission and the needs of the region. Contact: 845-265-8080 x 7113; mannajo@clearwater.org www.clearwater.org

Hudson Valley Regional Council: Established in 1977, Hudson Valley Regional Council (HVRC) is a council of Governments and serves the seven-county region of Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester. HVRC provides a platform for a regional perspective, offering planning, education, outreach and advocacy for the communities we serve. We assist in the development of strategies that enhance member counties through intergovernmental cooperation. We partner with several Federal and State agencies to deliver programming. HVRC creates and maintains a Comprehensive Economic Development Strategy (CEDS) through a partnership with the US Dept. of Commerce Economic Development Administration. HVRC partners with NYS Department of Environmental Conservation on Water Quality Planning issues including the Hudson River Estuary Program. We play an active role in Solid Waste Management through our working group consisting of professionals from all seven counties. HVRC participates in the governance of the Mid-Hudson Regional Sustainability Plan that will foster sustainability, resiliency and energy efficient practices throughout the region. Contact Patricia Pomeroy or Rich Schiafo at (845) 564-4075 or at ppomeroy@hudsonvalleyrc.org or rschiafo@hudsonvalleyrc.org .

Hudson Valley Smart Growth Alliance (HVSGA): HVSGA is a regional partnership of diverse interests including environmental, land conservation, and economic development organizations, builders, realtors, tourism officials, and planning agencies who have come together to build consensus on smart growth principles and promote local and regional solutions to sprawl. Please go to www.sustainhv.org for more information.

International Brotherhood of Electrical Workers (IBEW) Local 363: IBEW Local 363 is part of a national labor union comprised of over 750,000 members who are in the electrical industry. With occupations ranging from construction and manufacturing to computers and telecommunications, the IBEW represents workers from many different fields and is one of the larger unions in the country. Located in South Harriman, NY, Local 363 has not only helped its members obtain needed benefits, but has also contributed to the community with different charitable events. For more information, go to www.ibewlu363.com or contact Sam Fratto at SFratto@ibewlu363.org

Joule Assets: Joule Assets delivers financing and database solutions for energy efficiency (EE) and demand response (DR) initiatives and projects. Joule creates and monetizes Energy Reduction Assets (ERA) by integrating simple financing options with untapped revenue streams from our market analysis energy efficiency and demand response software tools. By leveraging our proprietary database, software and extensive industry expertise, the company's mission is to expand commerce and reduce barriers in these complicated markets by creating transparency and providing financing solutions. 914-977-3444 www.jouleassets.com

League of Women Voters of the Mid-Hudson Region: All local League chapters share the following mission statement with our state (lwvny.org) and national (lwv.org) League organizations. "The League of Women Voters is a nonpartisan political organization encouraging the informed and active participation of citizens in government. It influences public policy through education and advocacy." In addition, League chapters all share the same commitment to "fight to protect the environment and the public's health." The League chapters all believe that "wise management of natural resources and energy production is critical for our nation's future," and locally the Leagues monitor meetings of public bodies, network with other environmentally-minded organizations, hold informational events (e.g. an energy conference at SUNY New Paltz for municipal officials attended by over 200), and speak out where and when appropriate. See www.lwvmidhudson.org.

Mid-Atlantic Transition Hub (MATH): MATH empowers grassroots self-reliance by encouraging the use of renewable energy sources at homestead and community levels. MATH creates the space for nontraditional cross-disciplinary discussion of renewable energy projects; supporting their implementation and replication when feasible in the Mid-Atlantic region. The Mid-Atlantic Transition Hub (MATH) provides ongoing educational forums that inform municipal government processes, and use local government expertise as a springboard for innovation. Contact Pamela Boyce Simms at (646) 241-8386 or transitionmidatlantic.pbs@gmail.com

Municipal Silicon Solutions (MSS): MSS is a trusted advisor to municipalities seeking to acquire renewable energy facilities. Implementation of Renewable Energy projects by Municipalities can be a daunting endeavor. Complexities are introduced by the substantial tax leverage that underpins project financing, incentives that are available only to tax-paying entities. Without a Municipality's needing to bond or borrow from its own capital reserves, privately-financed Clean Energy generating facilities can fully utilize Federal and State incentives to produce the most advantageous Levelized Cost of Electricity (LCOE) for the Host. Municipal Silicon Solutions can stand on the Municipal side of the transaction, facilitating long-term asset value for significant electricity cost reductions, while managing the project fairly and equitably for both Vendor and Host. Contact MSS at (845) 591-1272 or email randolph.horner@mss-solar.com or visit www.mss-solar.com.

NY Solar Energy Society (NYSES): NYSES provides excellent speakers who have in depth knowledge of energy efficiency and renewable energy. They are available for schools and teachers in several ways: basic education for k-12 and workshops such as "Make A Solar Phone Charger", a four hour-course. NYSES also offers 40 handouts/reprints: one classroom worksheet called "Count Your Watts", and a fun, comprehensive list of "Ways to Save Energy." Several of these speakers have advanced knowledge of "Community Solar", microgrids and Solar LED lighting. They can help you design a municipal permit process for a safe, renewable energy installation and train your staff. Contact: wylton1@gmail.com or (917) 974-4606 or go to www.NYSES.org

New York State Builders Association Research and Education Foundation (NYSBA REF): NYSBA REF is a 501(c) (3) organization located in Albany, NY. NYSBA REF is the pre-eminent philanthropic foundation in New York State dedicated to advancing the housing industry through research and education. NYSBA REF provides scholarships, research grants and education programs to further the professionalism of the housing industry for the benefit of the public. NYBSA REF is proud to be an active leader in education, covering topics such as energy efficiency, green building and other training programs that service members and their communities throughout the state. NYSBA REF programs have included, but are not limited to: University of Housing courses (through the National Association of Home Builders), Green Building Education and awareness sessions, New York State Residential Builder Energy Code training, OSHA Safety Training, Energy Efficient Framing, and more. Contact (518)465-2492 or www.nysba.com/ref

Northern Westchester Energy Action Consortium (NWEAC): By late March 2010, NWEAC's work on energy issues to save municipalities and citizens money began to attract attention. As the Team prepared to sign the consortium agreement, it was learned that NWEAC had been awarded several grants. On April 21, 2010, Interdependence Day, thirteen of the municipalities came together in Bedford's Town Hall to sign our Inter-municipal Agreement, officially creating the Northern Westchester Energy Action Consortium. Within the Consortium, the thirteen original members of dues-paying municipalities comprise circa 240,000 citizens and about 55,000 homes based on the 2010 census. Since then NWEAC has received awards from the EPA, FCWC, NYS Assembly, and NYS Senate. NWEAC is the driving force for innovative collaborative projects like CCA, Micro-Grids, Solarize and, of

course, Energize. We have also contributed to the progress of the EIC, the development of SWEAC, and are in the process of creating a Westchester-wide Sustainable Westchester entity. Contact: Herb Oringel at herb@oringel.com or (914) 277-5370.

Orange County Department of Planning: Is engaged in issues of land use planning, transportation, public transit, education, trends research, resource management, agriculture, open space and economic issues that affect the County.

Re>Think Local: Re>Think Local is a nonprofit collaborative of locally owned independent businesses, artists, farmers, and nonprofits working to co-create a better Hudson Valley: vibrant, sustainable, locally rooted and human scale, with equal concern for people, planet, and prosperity. Part of a global movement called localism, we believe that socially and environmentally responsible Hudson Valley residents who own a local independent business here have the power to make this vision a reality — by banding together, supporting one another, bringing sustainability into their businesses, and working collectively to drive a transition to a new economic model. www.rethinklocal.org

Riverkeeper: Riverkeeper is a member-supported, watchdog organization dedicated to defending the Hudson River and its tributaries and protecting the drinking water supply of nine million New York City and Hudson Valley residents. Through its campaigns to close the Indian Point nuclear power plant, bring fracking for natural gas to a standstill and co-commissioning reports on transitioning to clean, sustainable power sources, Riverkeeper is at the forefront of helping to create an energy efficient New York. For more information, please visit www.riverkeeper.org.

Rural Ulster Preservation Company (RUPCO): RUPCO is a non-profit, affordable housing organization. We offer rental assistance, home ownership, home repair grants and property management services. In collaboration with Clearwater RUPCO is promoting NYSERDA's Green Jobs Green New York (GJGNY) program. The program provides funding for energy assessments, low-cost financing for energy upgrades and technical and financial support to develop a clean energy workforce. GJGNY is a statewide effort to strengthen our communities through energy efficiency. It enables New Yorkers to make a significant difference in our homes, businesses and neighborhoods-making them more comfortable, more sustainable, and more economically sound. Contact Hugo Jule at hjule@rupco.org or go to www.greenjobshudsonvalley.org for more information.

Sierra Club Lower Hudson Group (SCLHG): SCLHG covers Westchester, Putnam and Rockland counties in New York State, just above New York City. SCLHG has thousands of members concerned about the environment, and all aspects of it. Many members enjoy getting out on hikes and other outings. SCLHG endorses candidates for political office at all levels, lobbies public officials on behalf of the environment, and work with like-minded groups. SCLHG supports energy conservation and most forms of green energy, to minimize pollution and slow climate change. Sierra Club Lower Hudson Group contact: <http://newyork2.sierraclub.org/lowerhudson/>.

Southern Westchester Energy Action Consortium (SWEAC): SWEAC helps its 12 member municipalities accelerate their progress on sustainability opportunities in the areas of energy, transportation and waste. With robust participation by municipal environmental committees, staff and elected officials, SWEAC shares best practices and identifies solutions to common challenges. SWEAC focuses on those opportunities that deliver either cost savings (e.g. energy efficient streetlights) or desired community amenities (e.g. complete streets) in addition to environmental benefits. nina@sweac.org www.sweac.org.

Sullivan Alliance for Sustainable Development: Sullivan Alliance for Sustainable Development is a non-profit 501(c)(3) based in Sullivan County, NY, whose mission is to foster economic development that is environmentally, economically and socially responsible and sustainable. SASD has secured more than \$2 million in grants on behalf of Sullivan County businesses, farms, community organizations, municipalities, and government agencies for wind, solar electric and solar-thermal installations, energy audits, feasibility studies and energy efficiency retrofits. SASD also provides consultation and project support to Sullivan County for energy management and renewable energy opportunities for County-owned buildings and facilities, and is writing comprehensive Climate Action Plan for Sullivan County. For more information, contact SASD Co-Executive Directors: Carol Roig: (845) 557-0343 or Stephen Stuart: (845) 701-9126 sasdonline@gmail.com www.sullivanalliance.org

Sunrise Solar Solutions, LLC.: Is a NYSERDA registered designer and installer of solar photovoltaic systems ranging in size from residential to large commercial scale. Our geographic focus is NY's mid-Hudson Valley, Long Island, and New Jersey. Sunrise can help you and your organization determine the feasibility of solar electricity for your home or work place, then design, bid, and build the project using our own crews and exacting standards for quality. Our firm is run by the owners whose hands-on approach assures delivery of excellent projects. Our main office is co-located with our sister company of 27 years, Sunrise

Building, in our solar powered office building at 510 N. State Road in Briarcliff Manor, NY. Contact: Tom Kacandes, 845-750-2915. tom@sunrisesolarllc.com

Sustainable Hudson Valley (SHV): Sustainable Hudson Valley's mission is to speed up the shift to a low-carbon economy with high quality of life for all. We bring psychology and strategy to bear in creating inspired community partnerships such as the 10% Challenge and pilot Energize campaigns. With expertise in community engagement and leadership development, we help communities to bring energy and climate concerns to the forefront for decision-makers and opinion leaders. In 2014, we will embark on a "shared services" model of working with motivated communities to scale up the adoption of energy-efficiency and renewable energy marketing models that work, including Energize and Solarize. <http://www.sustainhv.org>.

Sustainable Warwick: Based around those two words - Sustainable and Warwick, Sustainable Warwick looks at the broad issues of sustainability and tries to establish a Warwick action connection, focusing on things that can be done this community. Examples include the community garden, community orchard, and community composting. Also the Energize Warwick/NYSERDA program where the goal is getting 200 homes in Warwick weatherized, which will generate \$40,000 for local non-profits. Even better is the zoning change they've championed – and got passed with the collaborative support of our Town Board – to prohibit fracking and fracking waste in the Town. SW would be happy to talk with other communities about any of these initiatives. sustainablewarwick.org.

US Green Building Council (USGBC): The US Green Building Council's Hudson Valley Branch can provide the following resources to aid municipalities and regional entities with the transition of a Green Energy Economy:

- Access to building professionals whose expertise is in energy conscious design (architects, planners, energy experts, lighting designers, etc.) and who are accredited in relevant rating systems, e.g. LEED, Living Building Challenge (LBC), Passive House (PHI), Sustainable Building Advisors (CSBAs), Building Performance Institute (BPI)
- Authoritative speakers on energy-related topics, including sustainable lighting, building performance, energy-smart design, insulation, windows and doors, passive-solar design, solar energy, geothermal systems, planted roofs, and much more
- Access to training programs for the trades, i.e. Green Professional Building Skills Training (GPRO) and to sustainability professionals and planners who can provide knowledgeable and informed input for strategy and policy development
- Examples of sustainable, energy conscious building and design and a passion for and commitment to sustainability and green building.

Contact: Rick Alfandre: ralfandre@alfandre.com or Gail Beverly: GBeverly@NatureAlum.Berkeley.edu. Or go to the USGBC NY Upstate Chapter website at www.greenupstateny.org.

Handouts/Resources:

CRREO: L. Wiegman: Energy Action Consortia: Moving Municipalities Toward Collective Sustainability
http://www.newpaltz.edu/crreo/discussion_brief_10.pdf

CRREO: [A Solar Hudson Valley: Toward Further Progress](http://www.newpaltz.edu/crreo/discussion_brief_6_solar.pdf) http://www.newpaltz.edu/crreo/discussion_brief_6_solar.pdf

Mid-Hudson Regional Sustainability Plan: Chapter 5: Energy
http://www.co.orange.ny.us/filestorage/124/1362/MHRSP_FinalDraftPlan_May2013_web.pdf

NWEAC: NY State Energy Solutions Road Map
http://www.clearwater.org/wp-content/uploads/2009/11/The-New-York-State-Energy-Solutions-Road-Map_NWEAC_2012_03_12.pdf

NYISO Gold Book:
www.nyiso.com/public/webdocs/markets_operations/services/planning/Documents_and_Resources/Planning_Data_and_Reference_Docs/Data_and_Reference_Docs/2013_GoldBook.pdf

NYISO Power Trends 2013: http://nysmartgrid.com/wp-content/uploads/2013/05/Power_Trends_2013_May_2013_FINAL.pdf

Energy Reality: Books, Primer, Essays: <http://energy-reality.org/learn/>