



Low-Income Forum on Energy

**Welcome to the LIFE Webinar Series.
We will be starting soon.**



Low-Income Forum on Energy

The Low-Income Forum on Energy Presents:

Community-Scale Clean Efficient Energy for Low- to Moderate Income and Environmental Justice Communities in Utica, NY

Jack Spaeth, Director of Economic Development, City of Utica, NY
Dr. Sy Olikier, P.E. Principal, Joseph Technology Corporation

September 20, 2018
10:30 a.m. - 11:30 a.m. ET



Low-Income Forum on Energy

Working to help low-income New Yorkers address energy issues.

LIFE, the Low-Income Forum on Energy, is a unique statewide dialogue that brings together organizations and individuals committed to addressing the challenges and opportunities facing low-income New Yorkers as they seek safe, affordable and reliable energy.

Supported by the New York State Public Service Commission and the New York State Energy Research and Development Authority (NYSERDA), the LIFE dialogue encourages an interactive exchange of information and collaboration among the programs and resources that assist low-income energy consumers.



Low-Income Forum on Energy

→ Monthly webinars

HEAP Updates for the 2018-2019 Heating Season

Wednesday, October 17, 2018, 1:00 - 3:00 p.m. ET

→ Monthly email newsletter

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Low-Income Forum on Energy

Find more information on the website

nyserderda.ny.gov/LIFE

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Newsletter suggestions, webinar ideas, event announcements

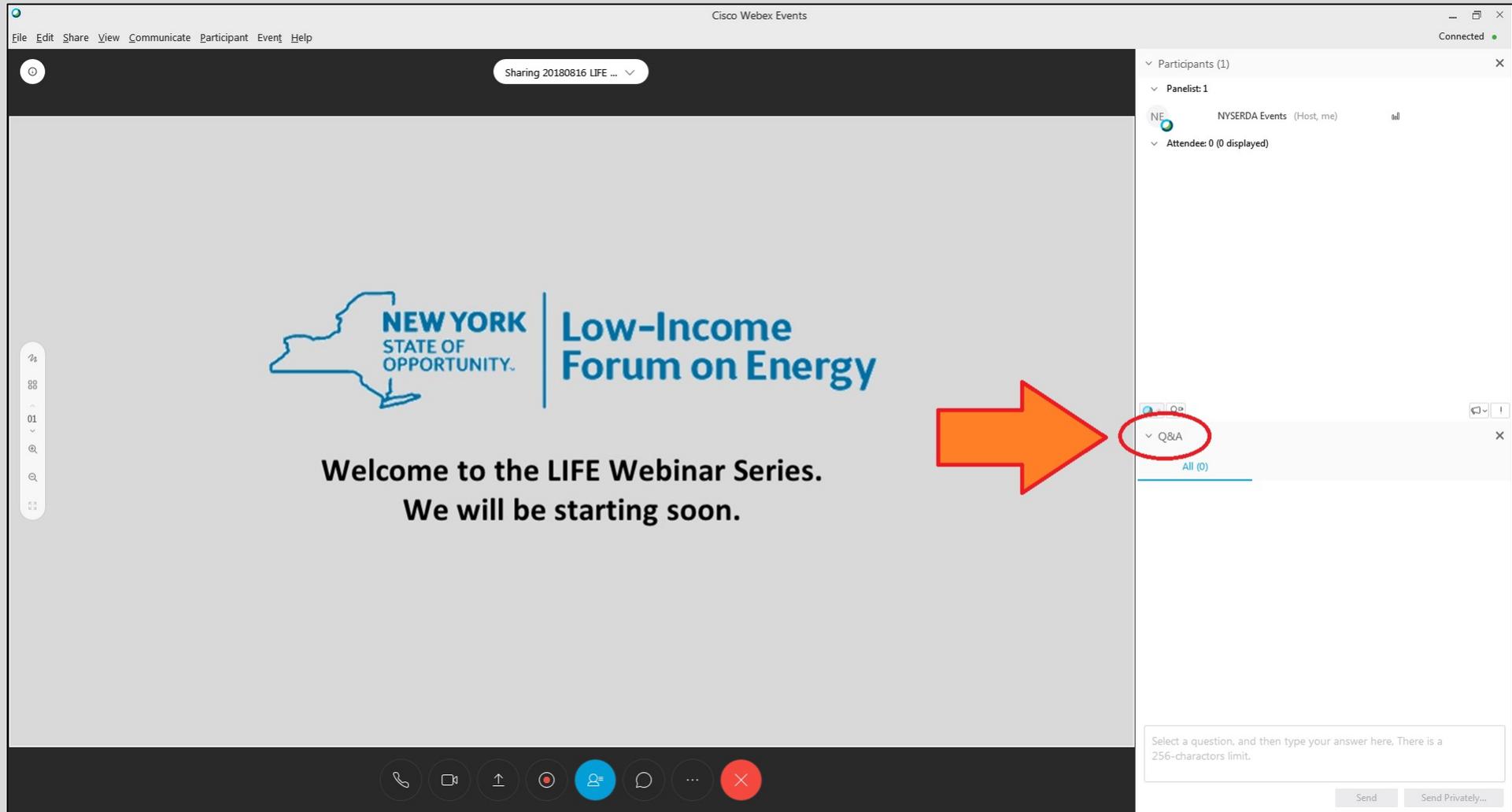
LIFE@nyserderda.ny.gov

Contact LIFE

Phone: 866-697-3732 – Request “Low-Income Forum on Energy”

Email: LIFE@nyserderda.ny.gov

Asking Questions During Today's Webinar



The screenshot shows a Cisco Webex Events window. The main content area displays a slide with the following text:

NEW YORK
STATE OF OPPORTUNITY. | **Low-Income Forum on Energy**

Welcome to the LIFE Webinar Series.
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The right-hand sidebar contains a 'Participants (1)' section with 'Panelist: 1' (NYSERDA Events) and 'Attendee: 0'. Below this is a 'Q&A' section with a dropdown arrow to its left, which is circled in red. An orange arrow points from the slide towards this dropdown arrow. Below the Q&A section is a text input field with the placeholder text: 'Select a question, and then type your answer here, There is a 256-character limit.' and 'Send' and 'Send Privately...' buttons.

Click on the small arrow to the left of “Q&A” to open the text field. Type your question into the text field and click “send.”

Technical Difficulties or Contacting the Host

The screenshot shows the Cisco Webex Events interface. The main content area displays the logo for the New York State of Opportunity and the title 'Low-Income Forum on Energy'. Below the logo, it says 'Welcome to the LIFE Webinar Series. We will be starting soon.' The bottom toolbar contains several icons, with the 'Chat' icon circled in red and labeled with a red arrow and the number '1'. On the right side, the 'Chat' panel is visible, also circled in red and labeled with a red arrow and the number '2'. The chat panel shows a list of participants and a message input field.

1. Click on the “Chat” icon on the bottom menu to activate the chat function.
2. The chat function will appear in the middle right portion of your screen.

Community-Scale Clean Efficient Energy System for LMI and EJ Areas in Utica, NY

By

Jack Spaeth

Director of Economic Development

City of Utica, NY

and

Dr. Sy Oliker, P.E.

Principal

Joseph Technology Corporation

Why Community Energy System?

- **Municipal leaders across the country are facing growing economic, social, and sustainability challenges and are increasingly interested in local energy production as a means of addressing them. Community leaders responsible for framing strategic approaches to energy are looking to develop and champion local energy projects, but typically lack the knowledge and expertise to do so.**
- **Growing cost of traditional energy arrangements; concern about national and local energy security; and the possible threat of climate change are increasingly focusing attention onto local energy opportunities.**
- **Energy can be a significant driver for the health and welfare of residents, and the growth and development of business, as well as energy stability for cities and communities.**

Why Community Energy System?

- In a number of countries and lately in the U.S., energy incentives and environmental policies have opened up unprecedented opportunities to reduce the energy cost, contribute a part of local energy revenues into municipal budget, and put energy assets to more productive use, while meeting wider social and environmental objectives.
- To take advantage of these benefits, many communities, municipalities, and other public sector organizations, as well as businesses and landowners, are actively considering becoming energy producers as well as consumers by developing energy projects themselves or forming partnerships with the private sector to develop more sustainable properties and communities.
- Cities and communities that take steps to improve their energy security and resilience are more attractive to businesses, which provide employment for residents who will, in turn, be attracted by a lower-cost, less polluting, and more secure energy supply.

Why Community Energy System?

- **CES's is the most efficient means to combine various energy generating technologies with maximum energy utilization. CES's are proven means of meeting energy demand for various customers. CES's are well established in a number of U.S. cities and is widespread in countries across Europe and Asia.**
- **The CES's deliver a range of energy, social, sustainability, environmental, and economic benefits by providing reliable, efficient, affordable, and clean energy from locally controlled and highly efficient local generating plants.**
- **The CES's have the flexibility to utilize and integrate multiple fuel sources and to harness waste heat from industry as well as local renewable resources such as geothermal, solar, and biomass.**
- **Many technologies using these fuels cannot be used for individual buildings. A district energy network provides the means of combining the energy demands of many buildings to achieve the economies of scale that are necessary to make these fuels practicable.**

Why Community Energy System?

- **This economic vibrancy is enhanced through an economic multiplier effect, as cash that would otherwise leave the area to pay for outside energy supplies is kept within the local economy to be spent on local goods and services. This strengthens the local tax base, enabling the municipality to provide high-quality services to residents and businesses.**
- **The key tool to addressing the above listed concerns is the Community Energy System. Community Energy Systems (CES's, sometimes called microgrids or district energy systems) provide a wide range of benefits for communities. The CES's offer the following advantages: reduction of cost of energy, more efficient use of resources; community-based economic engine; safe, secure, and reliable energy; affordable, high-quality energy services; attractive local environments; livable city.**

The NYSERDA sponsored project should achieve the following goals:

Encourage a grass roots approach to community energy planning that integrates considerations for the community's energy needs;

Develop a replicable framework for conducting LMI community energy planning, focused on a cornerstone CES;

Create templates and toolkits to aid in the project planning process and facilitate best practice adoption statewide;

Demonstrate innovative models for community ownership and finance of DER, which can be applied to similar CES's; and

Boost the ability of community-based organizations to carry out local clean energy priorities in the context of REV-enabled programs and projects.

The major City priorities during the CES planning and development are:

Provide affordable energy cost to LMI community, create clean energy jobs, urban renewal and sustainable development;

Address the negative environmental impacts that energy sources have on downtown community.

Integrate existing LMI support programs and services

Engage UMHA allocate resources in order to expand employment of DER to multifamily affordable housing projects

Provide continued support for energy efficiency services through the Clean Energy Fund, and the PSC's March 9, 2017 DER regulatory proceeding.

Promote building energy efficiency

Preliminary Results – Community Engagement

Message. The message includes description of the community energy system with estimates of potential energy savings to the LMI residents and the environmental benefits

The messengers include the City Mayor, Project Manager and Subcontractor. The City Mayor will detail the proposed project with a letter to participating entities and LMI residents

Delivery. The message delivery includes one-on-one Project Team and stakeholders meetings

Resources. The City of Utica and UMHA are already committed to the project. Information inventory is being collected

First Steps. The project is moving forward by engaging UMHA and additional collocated facilities in the Adrian District

Community Energy Island Includes the Following Facilities

- Adrian Terrace, N.D. Peters and F.X. Matt - 340 Unit UMHA site
- Proctor High School – collocated facility
- Christopher Columbus Elementary School – collocated facility
- Armory - collocated facility
- The above listed facilities have been surveyed and the energy information is being collected



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Join us for upcoming webinars.

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