

# Brookhaven National Laboratory

## *LIPA Solar RFP and Proposed BP Project*



*Robert Gordon, DOE  
Mark Toscano, BNL*

*Presentation to  
Community Advisory Council  
April 15, 2009*

**BROOKHAVEN**  
NATIONAL LABORATORY

*a passion for discovery*



# Background

- April 2008 LIPA released a Request for Proposals
  - Sought proposals “from entities interested in developing and selling a total of 50MW of power produced by solar photovoltaics...”
  - LIPA to purchase the energy output for up to 20 years
- The Department of Energy and the Lab proposed to make a portion of the Lab site available
  - Siting the Nation’s largest photovoltaic solar array at a DOE site underscores our commitment to renewable power

# Background

- DOE and BNL developed a set of conditions:
  - DOE will continue to own the land, but will provide access
  - A dedicated share of the output will be made available to the Lab
  - Small research array will be provided

# Research Array

- **Complements ongoing work at BNL, such as:**
  - Improving the efficiency of home heating systems
  - Developing alternative fuels
  - Advancing fuel cell catalysts and solar PV efficiency
  - Advancing efforts to increase PVC efficiency
  - Addressing storage and other technological limitations
- **Industries have already expressed interest in conducting research at the small array**

# Awards Announced

- BP Solar was selected to work exclusively with BNL
  - One of four projects selected by LIPA

# Project Description

- DOE and the Lab identified locations where a solar PV system might be sited and would:
  - Have minimal environmental impact
  - Be close to the LIPA transmission system
  - Minimize aesthetic concerns for the general public
- The locations are in the southeast corner of the site, close to the LIPA substation and in an area that can be developed



# Current Status

- **BP Solar proposing a large-scale solar photovoltaic project – up to 37 MW**
  - Summary findings from the data collected under this BP- BNL research collaboration will be available to LIPA and the public
  - BNL will be able to explore new research collaborations, and launch an educational and community outreach program about solar energy, among other benefits

# Current Status

- Currently in the early stages of development
- No construction details available
  - BP will be completing their preliminary design over the next few months
- BNL has begun an environmental assessment under the NEPA process and expects completion by late summer or early fall



# Environmental Assessment

- Environmental issues identified during the EA process will be fully addressed during the negotiation and project development process
  - The EA will address issues, such as:
    - Wetlands – impacts during and after construction
    - Protection of endangered species
    - Priority given to cleared areas
- The expected clearing will consistent with the Pine Barrens standards and guidelines

# General Discussion

# Back-up Information Not for Handouts

April 22, 2008

To All Interested Proposers:

The Long Island Power Authority ("the Authority") is soliciting proposals from entities interested in developing and selling to the Authority a total of 50MW of power and related energy produced by solar photovoltaic generating systems and associated Renewable Energy Credits ("RECs") associated with such generation.

The Authority may select one or more projects pursuant to this solicitation, or may decline to accept any or all proposals.

The Authority has also scheduled a Proposer's conference for May 12, 2008 to facilitate discussion between Proposers and the Authority.

The Authority requests that no later than 3:00 p.m., June 27, 2008 each Proposer submit eight bound copies of a written response by mail, courier, or hand-delivery to the following address:

Attn: Michael J. Deering  
Long Island Power Authority  
Solar Photovoltaic Generating Projects RFP  
333 Earle Ovington Blvd., Suite 403  
Uniondale, New York 11553

One unbound original, four bound copies, and an electronic copy (via CD) of the Respondent's proposal in searchable text format (e.g., Word, searchable PDF) should also be delivered no later than 3:00 p.m., June 27, 2008.

The RFP will be posted on the Authority's web site at [www.lipower.org](http://www.lipower.org). Any questions regarding this RFP should be submitted via e-mail to the Authority as set forth in the RFP on or before June 17, 2008. Responses to the questions will be posted on the Authority's web site on an on-going basis. No other communication or questions and answers will be permitted. Except as otherwise provided therein, no other contact with Authority Board members or staff or the Authority's consultants regarding this RFP will be allowed during the RFP process. Violation of this requirement may be grounds for disqualification from the RFP.

We look forward with interest to your participation in this solicitation process.

Sincerely,



Kevin S. Law  
President and CEO

# REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC GENERATING PROJECTS

---



## UPDATED SOLAR RFP DOCUMENTS



<http://www.lipa-solar-rfp.org/>



Potential Solar Photovoltaic Generating Project Site Hosts who wish to host Solar PV projects on their premises and/or existing facilities may fill out the form below and E-mail to the RFP Email address at [admin@lipa-solar-rfp.org](mailto:admin@lipa-solar-rfp.org). As a service to Hosts and respondents, LIPA will post the information provided below on its Solar RFP web site located at [www.lipa-solar-rfp.org](http://www.lipa-solar-rfp.org) in its password protected area which is accessible to and person who has registered with LIPA for this RFP. As a result of such posting, Respondents may contact you directly for further information regarding your site's attributes and/or to enter into an arrangement with you to use your site(s). Any arrangements made for use of a Host site are solely between the Host and the respondent. LIPA makes no warranties, express or implied, of any respondent's financial responsibility or suitability or fitness to install Solar Photovoltaic Generating Projects.

Please note that evidence of site control is not required to provide a response to this RFP; however, it is a factor in LIPA's evaluation of proposals.

**ITEM**

▪ **SUPPLIED INFORMATION**

- Name of Company/Entity: U.S. Department of Energy: Brookhaven national Laboratory
- Name: Robert P. Gordon
- Title: Director, Business Management Division
- E-Mail Address: [rgordon@bnl.gov](mailto:rgordon@bnl.gov)
- Phone: 631 344-3346
- Site Location(s): Brookhaven National Laboratory (BNL)
- Estimated Total Square Feet available for Solar PV Installation: To be determined
- Additional Information (optional): The terms underwhich the BNL facility can potentially be used as part of this solicitation needs to be developed.