Ashley Hunt-Martorano
Program Director
Renewable Energy Long Island (reLI)

Renewable Energy Long Island (reLI)

• 501 (c) 3 not-for-profit focusing solely on clean energy issues

• Gordian Raacke, Executive Director
  – 17 years experience furthering sustainable energy initiatives on LI

• Contract work with LIPA promoting RE programs

• Work with municipalities on energy plans
100% of Energy Through Renewables?
## Existing Plans & Studies

<table>
<thead>
<tr>
<th>Organization</th>
<th>%</th>
<th>Sector and Area</th>
<th>Target Date</th>
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</thead>
<tbody>
<tr>
<td>Repower America</td>
<td>100%</td>
<td>Electricity U.S.</td>
<td>2020</td>
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<tr>
<td>Beyond Zero Emissions</td>
<td>100%</td>
<td>E/T/H/C* Australia</td>
<td>2020</td>
</tr>
<tr>
<td>Price Waterhouse Coopers</td>
<td>100%</td>
<td>Electricity Euro/N. Africa</td>
<td>2050</td>
</tr>
<tr>
<td>SRU** Germany</td>
<td>100%</td>
<td>Electricity Germany</td>
<td>2050</td>
</tr>
<tr>
<td>EREC/Greenpeace</td>
<td>100%</td>
<td>E/T/H/C Europe</td>
<td>2050</td>
</tr>
<tr>
<td>WWF/Enerfys</td>
<td>100%</td>
<td>E/T/H/C World</td>
<td>2050</td>
</tr>
<tr>
<td>Jacobson/Delucchi</td>
<td>100%</td>
<td>E/T/H/C World</td>
<td>2030/50</td>
</tr>
</tbody>
</table>

*E/T/H/C = Electricity, Transport, Heat/Cool  
**German Advisory Council on the Environment
Overview

• Why now?
• Opportunities
• reLI’s Programs
Why now?
Number of scientific studies dealing with “climate change” published in scientific journals during the previous ten years: 928

Number disagreeing with the global consensus that greenhouse gas pollution has caused most of the warming of the last 50 years: 0
Why not?
Opportunities

• Innovation
• Leadership
• Economic Growth
Innovation
Leadership

or

or
Leadership

Photovoltaic Solar Resource: United States and Germany

Annual average solar resource data are for a solar collector oriented toward the south at a latitude of 40°. The data for Hawaii and the 48 contiguous states are derived from a model developed at SUNY/Albany using geostationary weather satellite data for the period 1999-2005. The data for Alaska are derived from a 40-km satellite and surface cloud cover dataset for the period 1988-1991 (NREL, 2003). The data for Germany were acquired from the Joint Research Centre of the European Commission and is the yearly sum of global irradiation on an optimally-inclined surface for the period 1991-1993.

Source: NREL
Economic Growth

• In 2007, U.S. RE + EE industries generated $1,045 billion in sales and created 9 million jobs

• That same year WalMart, Exxon Mobil & GM saw a combined $905 billion in revenue

Potential here is HUGE!
reLI’s Programs

• SunshinelIsFree.org
• LIGreenGuide.org
• Professional Membership
• Solar Tour & Green Buildings Open House
• eTour
• Calendar of Events
• eNews & Resources
SunshineIsFree.org

### 3 Steps to Becoming a Solar Owner: Progress Bar

1. **STEP 1**
2. **STEP 2**
3. **STEP 3**

### Your results

This estimate is to provide **100%** of your electricity, on average, over the course of a year. Why choose less than 100%?

<table>
<thead>
<tr>
<th>Your electricity usage:</th>
<th>552 kWh per month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity required</td>
<td>5.20 kW peak power</td>
</tr>
<tr>
<td>Roof area needed</td>
<td>520 square feet</td>
</tr>
</tbody>
</table>

### Estimated installation cost (before rebate or tax credits)

- **$32,388**

### Expected rebate

- **$9,098**

### NYS tax credit

- **$5,000**

### Federal tax credit

- **$6,987**

### Accelerated depreciation available

- **No**

### Income tax on tax credit

- **$1,400**

### Your Estimated Net Cost

- **$12,703**

### Financed Monthly Costs (5% for 10 years)

- **$134.74**

---

**More info**

Wondering how we arrived at our figures? Click "more" next to each line item to see a description here.

This is only an estimate: The cost to install a complete grid-tied solar photovoltaic (PV) system in a residential home is currently (as of November 2009) around $6,700 per kilowatt of system capacity. Installation costs vary considerably depending on the type of roof, building, its wiring, warranties offered, and other factors. This price includes PV panels, inverter(s), and other installation costs and labor. It does not include the cost of options, such as battery backup, or the costs of building preparation work, like roofing.

This summary is based upon many assumptions and the limited data you enter. A site assessment by a qualified renewable energy retailer or contractor will be needed to determine the actual costs and benefits of installing a solar electric energy system.
Typical Solar Electric System 5.2 kW

Installed Cost (assumes $6.23/watt) $32,396

LIPA Rebate (at $1.75/watt) (9,100)

Cost after Rebate $23,296

Less 30% Federal Tax Credit (6,989)

NYS Tax Credit (lower of 25% or $5,000) (5,000)

Total Combined Tax Credits - 11,989

Final Customer Investment $11,307

Annual Estimated Savings $1,325

Calculator at www.SunshineIsFree.org
Long Island Solar Contractors in Suffolk County

RELI does not endorse, make any representation, warranty, or undertake any responsibility for the entities listed below. ↑1

Featured contractor - randomly selected

EmPower Solar
Island Park, NY 11558
- Full Profile

EmPower’s commitment to solar stems from our uncompromising belief that the widespread use of renewable energy will lead to a more civil, prosperous and peaceful world.

Sort by: NABCEP, # LIPA grid systems

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Rating</th>
<th>Installs</th>
<th>NABCEP Certified Solar PV Installer™</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNation Solar Systems</td>
<td></td>
<td>405</td>
<td>Scott Sousa #032407-61</td>
</tr>
<tr>
<td>Oakdale, NY 11769</td>
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<td>0</td>
<td></td>
</tr>
<tr>
<td>GreenLogic Energy, LLC</td>
<td></td>
<td>392</td>
<td>JP Clejan Ashlee Reiniger</td>
</tr>
<tr>
<td>Southampton, NY 11968</td>
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<td>0</td>
<td></td>
</tr>
<tr>
<td>Go Solar, Inc.</td>
<td></td>
<td>279</td>
<td>Gary Minnick #102503-37 &amp; Solar</td>
</tr>
<tr>
<td>Riverhead, NY 11901</td>
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<td>0</td>
<td>Thermal Exam Committee</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Adam Eberhardt # 031409-34</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Brian Lupo Solar Thermal # ST051110-29 &amp; PV # 051209-106</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Anthony Wolbert PV # 092907-54</td>
</tr>
</tbody>
</table>
Long Island's 'Green Yellow Pages'

The 'Green Yellow Pages,' a free service from Renewable Energy Long Island (reLI), is your source for information on environmentally-friendly builders, retailers, consultants, and more.

Do you have a green business?

Click here to get your FREE listing in the online edition of the LIGreenGuide. Find out how to advertise on this Website through banner ads.

It's Here!

The New 2010-2011 Print Edition of the LI GreenGuide has arrived and is available now at Whole Foods Market in Lake Grove. We will also be distributing Guides in October at:

- The Sustainability Institute at Molloy College Sustainable Film Series on October 21st at 7pm
- The HIA-LI Go Green Conference on October 27th from 8am-4pm
## Energy/Home Performance Audit or Rater

Point to the company for a description, click for full details.

<table>
<thead>
<tr>
<th>Business Name</th>
<th>City</th>
<th>Contact</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alure Home Performance Solutions</td>
<td>Plainview</td>
<td>Hubie van Meurs</td>
<td>800-639-3637</td>
</tr>
<tr>
<td>Bonded Building &amp; Engineering</td>
<td>Oyster Bay</td>
<td>Jerritt Gluck</td>
<td>516-922-9867</td>
</tr>
<tr>
<td>Community Environmental Center</td>
<td>Long Island City</td>
<td>Leroy Anthony</td>
<td>917-445-8641</td>
</tr>
<tr>
<td>Conservation Services Group</td>
<td>Ronkonkoma</td>
<td>Dave Beaulieu</td>
<td>631-590-5700</td>
</tr>
<tr>
<td>Efficient Electrical &amp; HVAC, Inc.</td>
<td>Shoreham</td>
<td>Charles Servedio</td>
<td>631-816-4911</td>
</tr>
<tr>
<td>Energy Master &amp; Environmental Solutions</td>
<td>Hauppauge</td>
<td>Richard Manning</td>
<td>631-234-0899</td>
</tr>
<tr>
<td>Energy Testing Services LLC.</td>
<td>Bohemia</td>
<td>Theresa Altebrando</td>
<td>631-244-2627</td>
</tr>
<tr>
<td>Energywise Inc.</td>
<td>Bohemia</td>
<td>Teresa Legere</td>
<td>631-567-4720</td>
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<tr>
<td>Ferme Corp. / Ferme Fuel Co. Inc.</td>
<td>Central Islip</td>
<td>Joe Ferme</td>
<td>631-234-6677</td>
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<tr>
<td>Frazer Dougherty</td>
<td>Bridgehampton</td>
<td>Frazer Dougherty</td>
<td>631-537-1654</td>
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<tr>
<td>Fusion Architecture, PLLC</td>
<td>Plainview</td>
<td>Jean-Pierre Lardoux</td>
<td>516-349-8808x11</td>
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<tr>
<td>Green Audit USA, Inc</td>
<td>Greenlawn</td>
<td>Jay Best</td>
<td>631-813-4446</td>
</tr>
<tr>
<td>Green Genius Inc</td>
<td>Southampton</td>
<td>David Rimland</td>
<td>631-875-5451</td>
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<tr>
<td>Green Home Services, Inc</td>
<td>West Hempstead</td>
<td>Joseph Prush</td>
<td>516-280-4630</td>
</tr>
<tr>
<td>Green Jobs Training Center</td>
<td>Howard Beach</td>
<td>Dolores Bevilaqua</td>
<td>718-659-1205</td>
</tr>
<tr>
<td>Green Works Solutions, Inc.</td>
<td>Glen Cove</td>
<td>Sean Cahill</td>
<td>516-656-5700</td>
</tr>
<tr>
<td>Home Performance Technologies</td>
<td>Brenwood</td>
<td>Jeremy Smith</td>
<td>631-300-4663</td>
</tr>
<tr>
<td>Horizon Engineering Associates</td>
<td>Smithtown</td>
<td>Paul Meyer</td>
<td>631-240-0907</td>
</tr>
<tr>
<td>Integrity Home Energy Assessments</td>
<td>E Moriches</td>
<td>Dave Maschke</td>
<td>631-325-4006</td>
</tr>
<tr>
<td>MDH Enterprises Corporation</td>
<td>Greenlawn</td>
<td>Mark Haggerty</td>
<td>516-901-6801</td>
</tr>
</tbody>
</table>
Location-based search

Search for green vendors within the range you specify. Enter your address, the search radius (in miles), and click Find Vendors.

Address: 62 Newtown Ln, East Hampton, NY 11937  
Radius: 100  
Services: All

Other RELI Services
Renewable Energy Long Island (reLI) sponsors the LIGreenGuide and these other sites and services:

- Renewable Energy Long Island (reLI) (0.0)
- Maziar Behrooz Architecture (0.1)
- The Manhattan Mortgage Company (0.1)
- Solar Power Systems (0.1)
- B Wells Green Cabinetry (0.6)
- Zwirko & Ortmann Architects P.C. (1.0)
- Green Irene | East Hampton (1.0)
reLI Professional Membership

Get our free e-newsletter
enter your email address

Sign Up

Upcoming Events:
2/8/2011 at 8:30 AM
Shaping the Future of Business On Long Island: Program Overview and White Paper Submission Requirements

2/12/2011 at 11:00 AM
Solar Energy Seminar (Contractor Sponsored)

Links
SunshineIsFree: Make Your Own Energy - Take advantage of LIPA’s cash rebates for Solar Pioneers;

Go Solar Nassau - Nassau County’s Healthy Nassau site now features solar

Clean Air NY - ‘Clean Air NY, Breathe it in.’ Clean Air NY wants;

Green Street Long Island (Newsday) - Living on GreenStreetLI is free, friendly, and it’s easy...

Gold Member
Action Long Island
Deepwater Wind
EmPower Solar
enXco
GreenLogic Energy
Murtha Construction
Quad State Solar
SUNation Solar Systems
The Clean Energy Group

Silver Member
2N Technologies
All Season Solar
Cantigue Electric
Chaleff & Rogers
Clean Energy Solutions LLC
Energy By Choice, Ltd.
Fantastic Energy Solutions, Inc.
Greener Country
Ludlow Homes
Solar & Wind Concepts

Bronze Member
Anker Environmental Designs
Division 7 Inc
Energenesics Systems, LLC
Go Solar, Inc.
Harvest Power
Majestic Son & Sons, Inc.
Mercury Solar Systems
New York Solar Solutions
Solar Dad & Sons
Sunrise Energy Concepts
Tough Trac
The Electrical Training Center
Town of Brookhaven
# Calendar of Events & eNews

## February 2011

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<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
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<td><strong>3</strong> Solar Energy Seminar (Contractor Sponsored)</td>
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<td><strong>5</strong> Solar Energy Seminar (Contractor Sponsored)</td>
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<td><strong>9</strong></td>
<td><strong>10</strong></td>
<td><strong>11</strong></td>
<td><strong>12</strong> Solar Energy Seminar (Contractor Sponsored)</td>
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<td><strong>13</strong></td>
<td><strong>14</strong></td>
<td><strong>15</strong></td>
<td><strong>16</strong></td>
<td><strong>17</strong> Neighborhood Network 12th annual Organic Turf Show</td>
<td><strong>18</strong> Solar Energy Seminar (Contractor Sponsored)</td>
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<td><strong>19</strong></td>
<td><strong>20</strong></td>
<td><strong>21</strong></td>
<td><strong>22</strong></td>
<td><strong>23</strong></td>
<td><strong>24</strong></td>
<td><strong>25</strong> Solar Energy Seminar (Contractor Sponsored)</td>
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<td><strong>29</strong></td>
<td><strong>30</strong></td>
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The Stony Brook SBDC, in partnership with Renewable Energy Long Island, NYSERDA, Stony Brook University and the U.S. Small Business Administration announces its second series of FREE workshops featuring prominent business and technology leaders providing the latest information on renewable energy.

Tuesday, February 8 from 9am—12pm. Registration begins at 8:30am.

Speaker: Paul DeCots
Vice President, Long Island Power Authority

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## Calendar of Events & eNews

**reLI: A Year in Review**

With your help, reLI has made some remarkable advances furthering our goals of clean, renewable energy for Long Island in 2010. Here is just a small sampling of successes:

- The third edition of reLI’s LI GreenGuide, our compendium of green living plus Long Island’s premier “Green Yellow Pages,” was released. This edition features activist and actress Gloria Reuben on its cover and can be found at Whole Foods Market in Lake Grove, Green Country in Bohemia, at reLI events or online at [www.LIGreenGuide.org](http://www.LIGreenGuide.org).
- reLI partnered with LIAPA and the Long Island Farm Bureau to host a “Green Energy Cash Crop” workshop for farmers. At this free and informative event, local farmers learned about cash incentives to help “green” their farms from efficiency upgrades to renewable energy projects.
- Our annual National Solar Tour and Green Buildings Open House was a success, demonstrating both energy efficiency and solar technologies to visitors from Long Beach to Montauk! We were covered in the local press and island-wide in a NEWS12 segment.

We exceeded our 2010 solar goal of 2000 solar roofs! There are now over 4000 solar roofs on Long Island with reLI’s help. Thousands of homeowners have reduced their electric bills and carbon emissions by going solar. LIPA’s attractive rebates, generous state and federal tax credits, a growing solar industry, plus invaluable help from our SolarCorps volunteers made this possible.

To see if you qualify for a reLI solar calculator and request free bids from solar contractors, visit [www.SunshinesFree.org](http://www.SunshinesFree.org).

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## Easy Green: Sign Up for LIAPA Green Choice Program

- When asked if they would pay just a few dollars more per month to ensure their energy dollars are supporting clean energy sources, many people say “yes!”
- Did you know that you have the choice of burning green power on Long Island without installing solar panels or a wind turbine?

- By signing up for LIAPA’s Green Choice Program, LIAPA customers can purchase green power generated from wind, or from a mix of wind, hydro, and biomass sources. A customer may choose to apply 50-100% of their energy purchase each month for this program.

While it is impossible to guarantee that this green energy is delivered to any one location or home, the New York State Public Service Commission tightly regulates the marketing of Green Power so that customers can be assured they will receive the environmental benefits of the green product that is purchased.

Green Power attributes could cost up to 2.5 cents per kilowatt hour. The average residential customer on Long Island consumes approximately 768 kWh per month. At 2 cents per kWh, it would cost the average residential consumer as little as $7.68 per month extra to have 50% of their power designated as Green Power.

Learn more and sign up at [renewableenergylongisland.org/greenchoice2011](http://renewableenergylongisland.org/greenchoice2011).
Challenge = Opportunity
Ashley Hunt-Martorano
Program Director
Renewable Energy Long Island
631-329-8888
Ashley@RenewableEnergyLongIsland.org