New England Solar

… it’s the right thing to do

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For More Information

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- New England GSA
- O'Neill Federal Building, Boston, MA
- roman.piaskoski@gsa.gov

Our First Array … installed … Oct., 1999

We did experience some problems ….

- The entire array was removed & replaced under warranty.

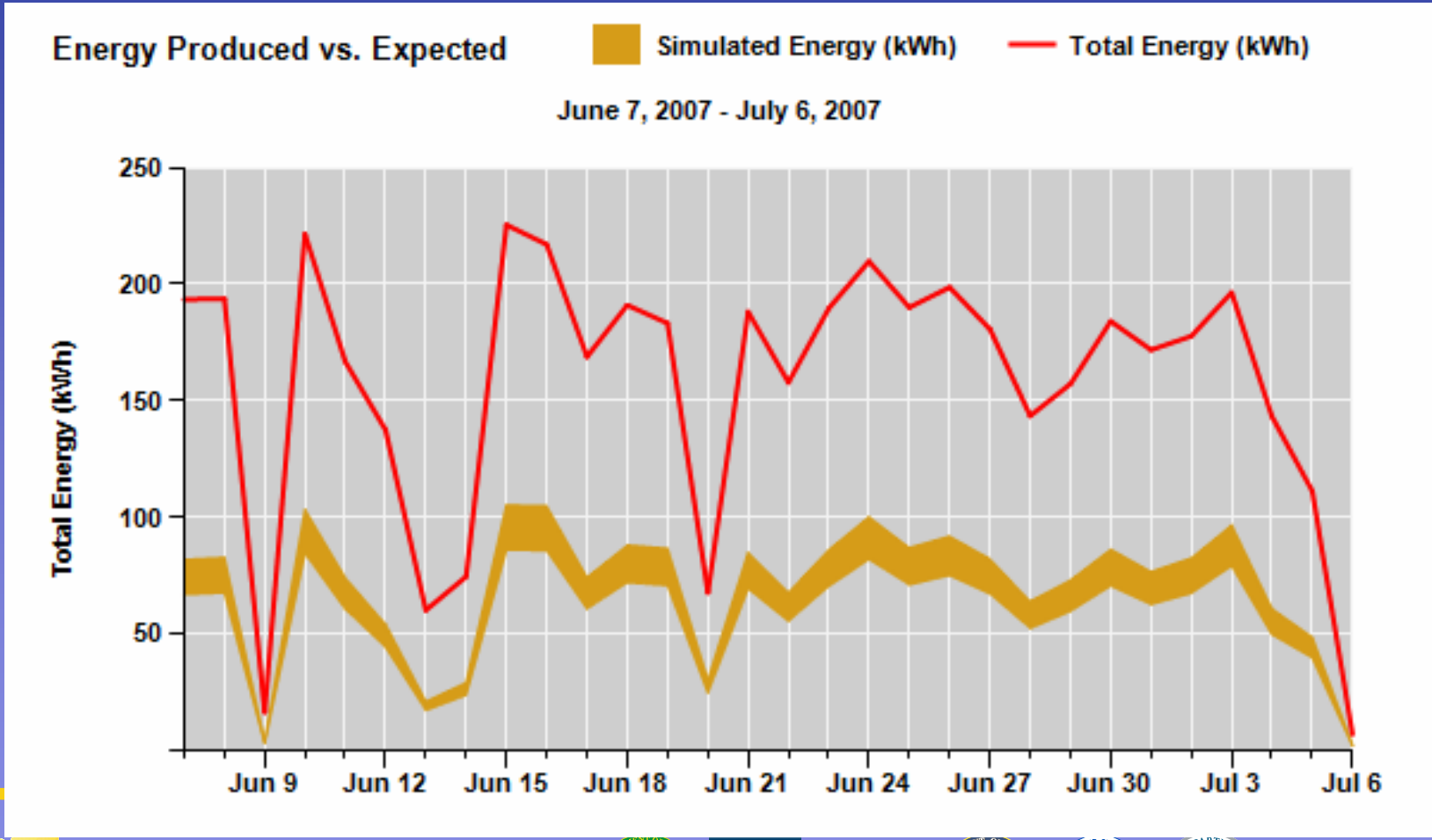
- Twice !!

PowerLight *POWER GUARD* 37 kW DC array

- Replaced for the second time May 2007
- *Sunpower* SPR 210 panels
- New *Xantrex* inverter
- Old system 372 panels
- New system 176 panels

New array qualifies as such for REC's and the Forward Capacity Market

Web site access for reporting ...



Our Second Solar PV Installation … August, 2003

- EPA Lab, Chelmsford, MA: LEED GOLD

Waltham Federal Center, Waltham MA, circa 1990

Our Third Solar Installation ... January 2007

Frederic C Murphy Federal Record Center, Waltham MA

375 kW DC / 325 kW AC

- Roof area: 144,000 sq ft
- Estimated … 450,000 kWh annually
- Represents 50% of requirements
- Estimated $67,000 savings annually
- Estimated 7.9 million kWh over 20 years, assuming 1% degradation

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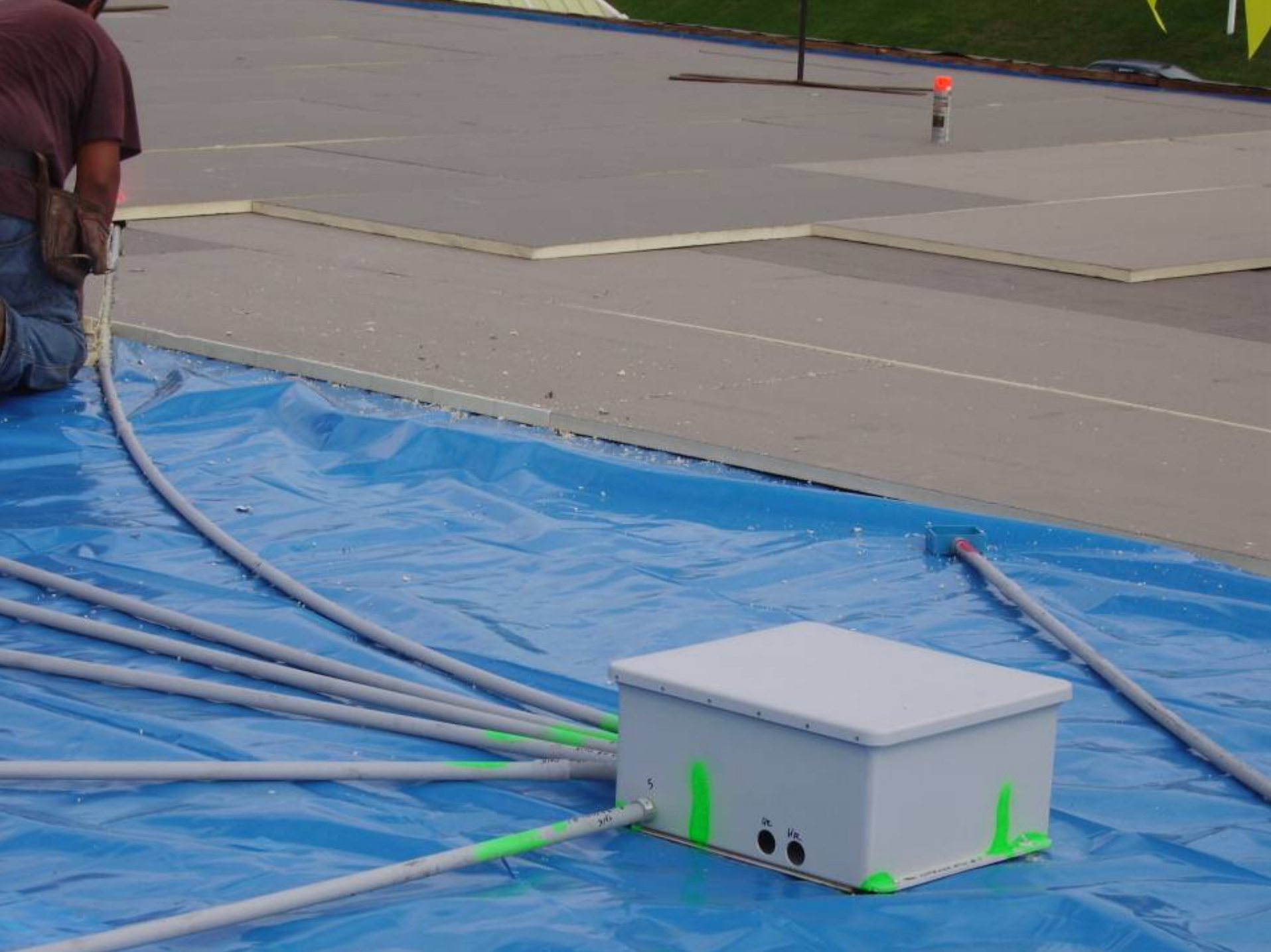
Visitor Pass

Speaker Name

August 6

Hertz

Sarnafil



Environmental Benefits … on an Annual Basis

- Nitrogen Oxide: 709 lbs.
- Sulfur Dioxide: 1,783 lbs.
- Carbon Dioxide: 423,404 lbs.

Monetary Benefits … on an Annual Basis

- 300,000 kWh X $0.16 = $48,000
  (use on site)
- 150,000 kWh X $0.08 = $12,000
  (sell back @ market clearing price)
- 250,000 REC's X $0.055 = $13,750
  (swap with Utility for credit to bill)
- 5 months X est. $7,000 = $35,000
  (forward capacity payments)
- Total Annual Dollars = $108,750

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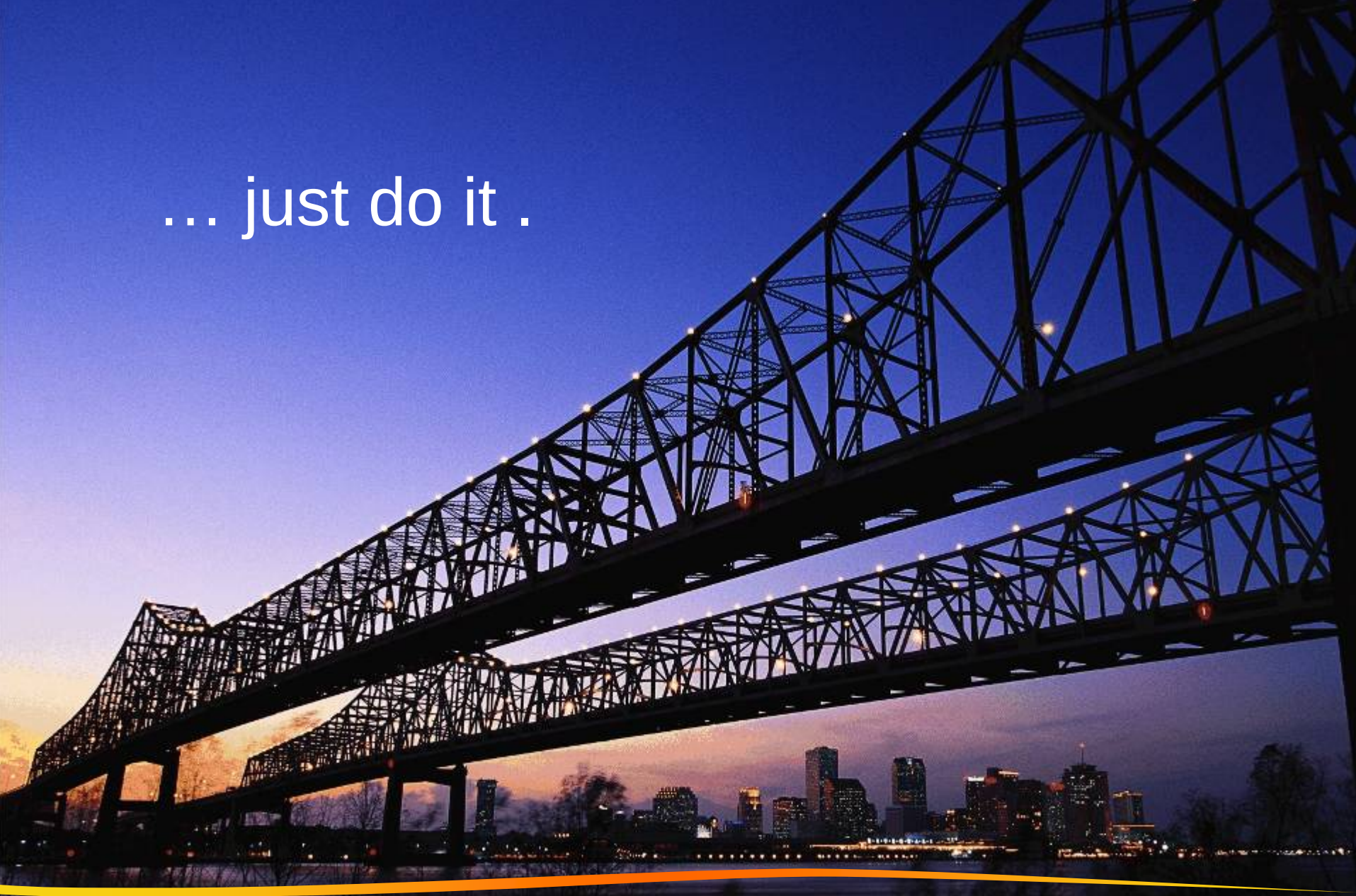

… just do it .

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New Orleans

August 5-8