

Brea Energy Efficiency & Solar Project

Aspen Accord Spring Conference

April 1, 2011

Brea Energy Efficiency & Solar Project

- * Status

- * Highlights

- * Upcoming Events

- * Related Efforts

Project Status

- * Many Components Nearing Completion
- * 2 Solar Systems Will Be On-Line by End of March
- * Interior Building Lighting Retrofits Complete
- * HVAC Retrofits & Controls Complete
- Street Light Retrofits Progressing

Project Highlights

- * Supplies Renewable Energy to Efficient Buildings
- * No Accidents through 38 weeks of construction
- * No Change Orders. Guaranteed Max Price Project
- * CSI Reserved at .32 cents/kWh rather than .15 cents

Over 1,300 labor hours worked as of 3/1/11

More than 32 Full Time Equivalent Jobs Provided

Upcoming Events

- * 2 Solar Systems To Be Activated Soon
- * Project Completion Event Being Planned.
No Date Yet.

Brea Energy Efficiency & Solar Project:

Berry Street Water Reservoir Solar Installation



4,914 panels

Energy produced on this 180,000 square foot roof will power water pumps and reduce system operating costs.

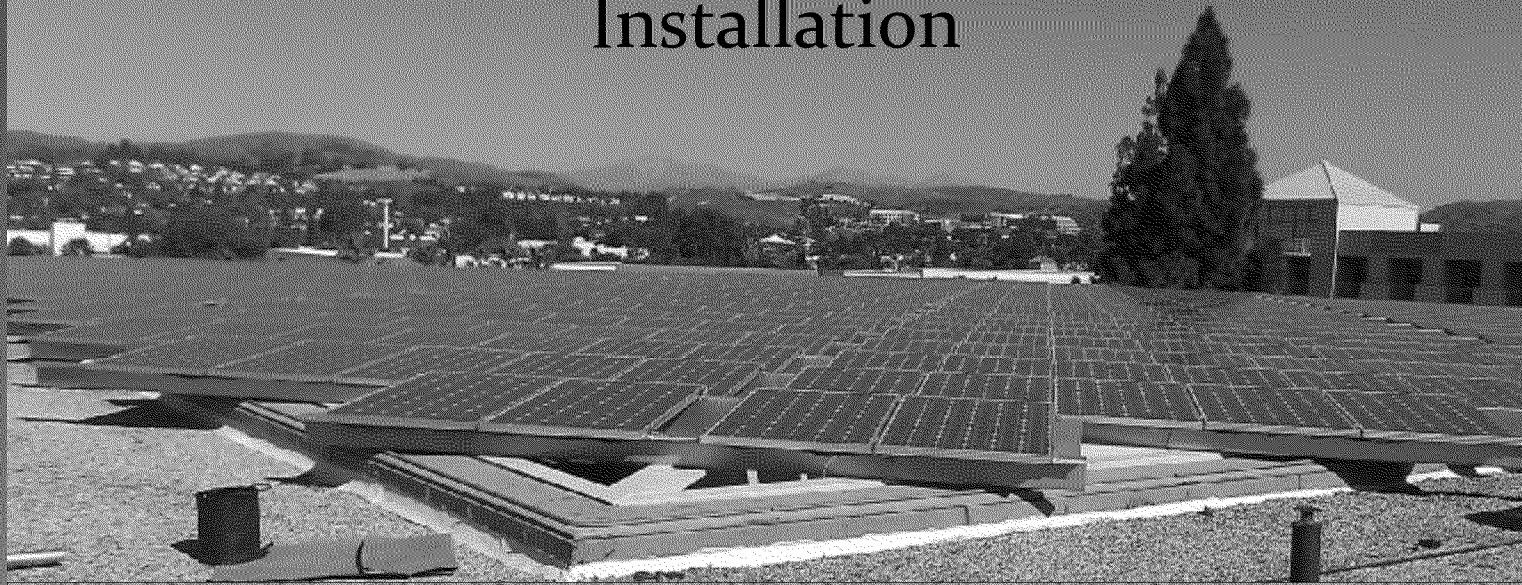
Brea Energy Efficiency & Solar Project:

Brea Civic & Cultural Center Solar Installation



Utilized Existing Atrium Structure

Brea Civic & Cultural Center Solar Installation



1,120 Panels, will Provide 14% of Annual Building Demand

Provides shading lowers building heat load
Further Increases Energy Efficiency of the Building

Brea Community Center – Rooftop Solar Installation



Brea Community Center Parking Lot Solar Installation



Valuable Commodity



**Security Measures
Required!**

Informational Display @ BCC Overview Page



Human Energy

FULLSCREEN

OVERVIEW

PROJECT INFORMATION

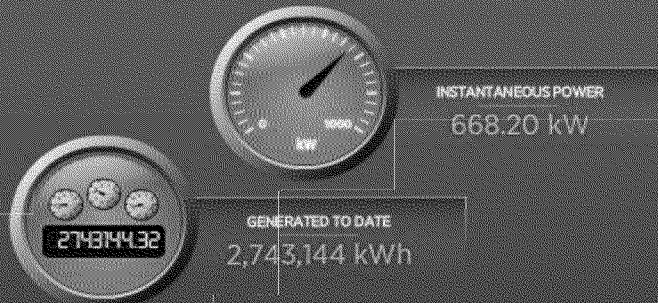
LIVE DATA

HOW IT WORKS

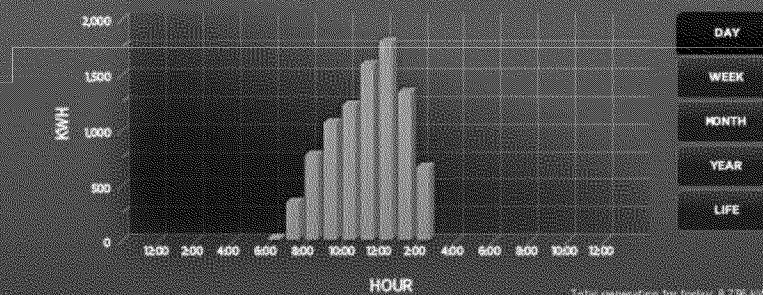
GREEN LIFE

START SLIDESHOW

Current Generation



Total Generation



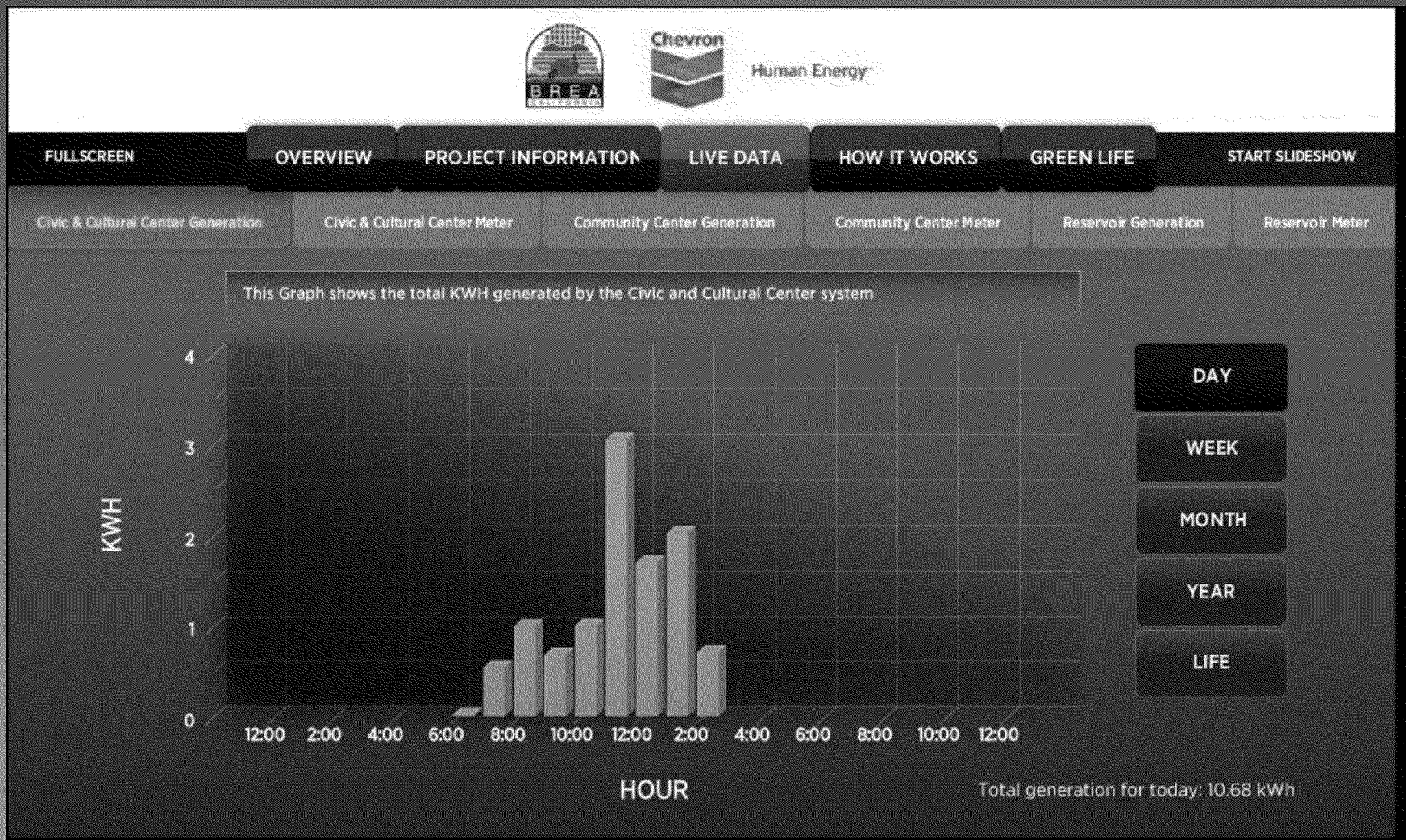
Environmental Benefits Today



Current Weather



Informational Display @ BCC Live Data Page



Informational Display @ BCC Live Data Page



Human Energy

FULLSCREEN

OVERVIEW

PROJECT INFORMATION

LIVE DATA

HOW IT WORKS

GREEN LIFE

START SLIDESHOW

Project Information

This project consists of 3 separate installations owned by The City of Brea. To view more information about the City online [click the link](#)

The first site is a 263.2KW installation with 1 Satcon 250 kw inverter and is installed on the Brea Civic Center. The second site consists of a 427.7KW system with 1 Satcon 375KW inverter installed at The Brea Community Center and the last site is 1.154MW system, installed at the Brea Reservoir and consists of two 500kw Satcon Inverters. All systems use Sharp 235W modules.

Chevron Energy Services installed the systems



Brea Energy Efficiency & Solar Project

Conduits from Reservoir !



Crane Lift For BCC Solar Inverter



Positive Results!



Other Items

- * SCE/CPUC - Flight 5.6 Strategic Plan Initiatives
 - Energy Chapter of Climate Action Plan
 - On-Line Permitting for Energy Efficiency Projects
 - Utility Manager Software
 - Partnership Programs & Reporting Requirements

Recognition Program Applications

- * Urban Land Institute – Sustainable Communities
 - “Best of the Best” Awards
- * U.S. Chamber of Commerce –
 - 2011 Siemens Sustainable Community Award

Questions?