WELCOME to the ENERGY TOOLKIT SITE!

You may access desired site content by clicking on the various
Strategy Site Links (on the left) or Mountain Trail Icons (below)

Doug Rath
Director of Energy & Environment
Marriott’s Energy Team

Marianne Balfe
Director of Energy & Environment
Specializing in: Water, Waste, Solar, Wind

Doug Rath
Director of Energy & Environment
Specializing in: Automation, ROI's, Conservation

Dennis Moran
Director of Energy & Environment
Specializing in: Contracts, Utilities, Data

Marc Burton
Project Manager
Specializing in: Project Vulcan, Incentives

Jennifer Robertson
Program Manager
Specializing in: Demand Response, Retro-Commissioning
Chiller Change out
Cost: $1,312,398
Central Plant Upgrade

Remove 3 chillers

Install

2 larger chillers + VFDs

CW & CHW Pumps VFDs
0.58 kW/Ton
New Connections

Two mechanical plants
Add 200 ton plate & frame
Program the EMS
Savings

1,769,906 kWh

$ 224,778
Welcome
To the Best
Engineering Dept.
In Renaissance
## Pool Heater Replacement Bids

**Owner's Budget = $65,000**

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Qty 2 Boilers</th>
<th>Installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valley Plumbing</td>
<td>Raypak X-Therm WHP 1505</td>
<td>$63,380</td>
</tr>
<tr>
<td>Valley Plumbing</td>
<td>Raypak Hi Delta 1532</td>
<td>$59,800</td>
</tr>
<tr>
<td>United States Pools</td>
<td>Raypak X-Therm WHP 1505</td>
<td>$65,044</td>
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<tr>
<td>Hotel's Engineering</td>
<td>Qty 2 Laars Rheos</td>
<td>$32,125</td>
</tr>
<tr>
<td>Department</td>
<td>Qty 2 Plate &amp; Frame</td>
<td>$19,314</td>
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<tr>
<td></td>
<td>Plumbing and gas parts</td>
<td>$5,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>$56,439</strong></td>
</tr>
</tbody>
</table>
New boilers and Hx
Best things are free...
Laundry boiler
Back in 2008...
Persistence
Results That Last
Building EMS

Appropriate trending
KISS
Keep It Simple
Demand response adjusts the demand for power

...instead of adjusting supply
Pre-programmed DR sequences

Real-time use

Status

Consolidator
- Load Shed: Off
- Notice: Off
- Capacity L1: Off
- Capacity L2: Off
- Reserve L1: Off
- Reserve L2: Off

Note: For Property to Enable Load Shed Curtailment to occur, Select "Opt in" for each equipment system.
This is CPower with an emergency demand response procedures message. A CBP curtailment event has been initiated. Please curtail your load per the following:

Program Name: SCE CBP Day Of 1-4 Hour

Zone(s): SCEC - SCE Core (LA Basin), SCEN - SCE North, SCEW - SCE West, SCLD - SCE Low Desert, SCNW - SCE Northwest

Event Date: Monday, November 2, 2015
Event Start Time: 5 PM Pacific Time
Event End Time: 7 PM Pacific Time

Participation in this event is mandatory.

Please press REPLY to this email, type "yes", and then hit send to acknowledge this message. CPower thanks you for your participation!

Thank you,
CPower Dispatch Desk
410-346-5907
Sunset

FALL BACK 1 HOUR
Duck Curve
Aliso Canyon gas leak
Coming to a state near you

1. Washington's Metro Fire Called Symptom of Aging Transit in U.S.
2. Clinton Says She's on 'Brink' of Being First Female Nominee
3. FERC's 'Demand Response' Rule Upheld by U.S. Supreme Court

by Greg Stelz and Jim Polson

January 25, 2016 – 7:08 AM PST Updated on January 25, 2016 – 1:59 PM PST
Whole Building Cx