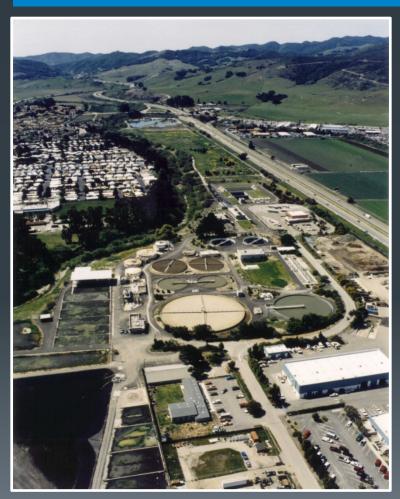
# Water Resource Recovery Facility Energy Efficiency Project



The City of San Luis Obispo
Utilities Department is
committed to providing our
community the highest level
of service, water quality, and
environmental protection
through careful & effective
management of our
community resources.

Utilities Department Mission Statement

#### Opportunity

#### \$9.5 million energy efficiency project



Sign created from reclaimed biofilter





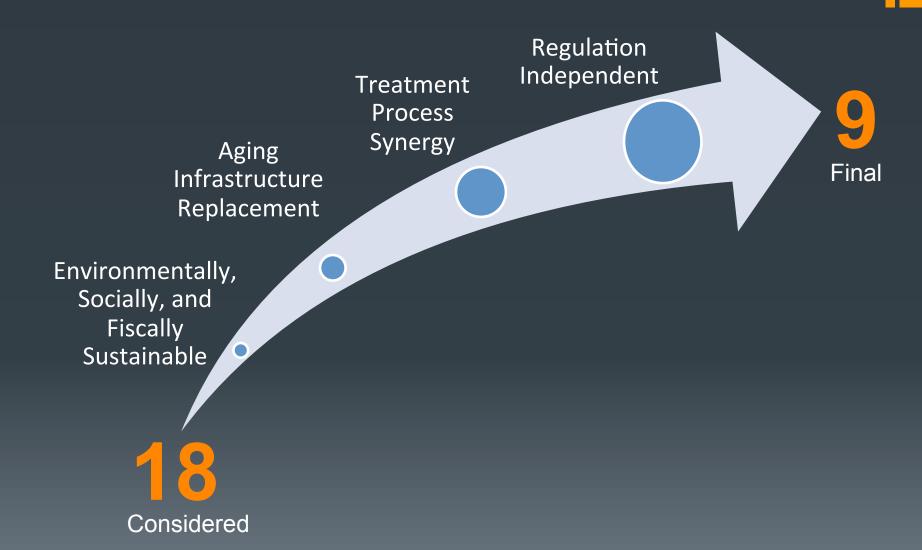
### Journey

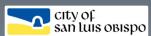
Feasibility Discussion

Preliminary Energy Assessment

Investment Grade Analysis Finance & Implement

#### The Filter







#### **WRRF 1 - cogeneration**



WRRF 2 - headworks





#### WRRF 3 - pumps



WRRF 4 – belt press

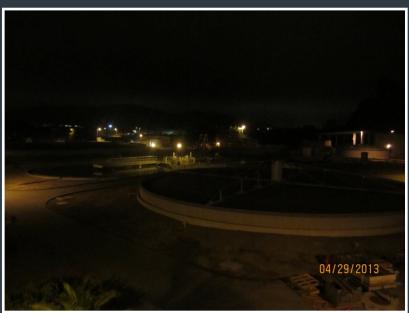




WRRF 6 – filter tower

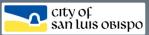


WRRF 8 - lighting



WRRF 5&7 – flow control meters/ RAS VFD's







#### WRRF 9 – process system control



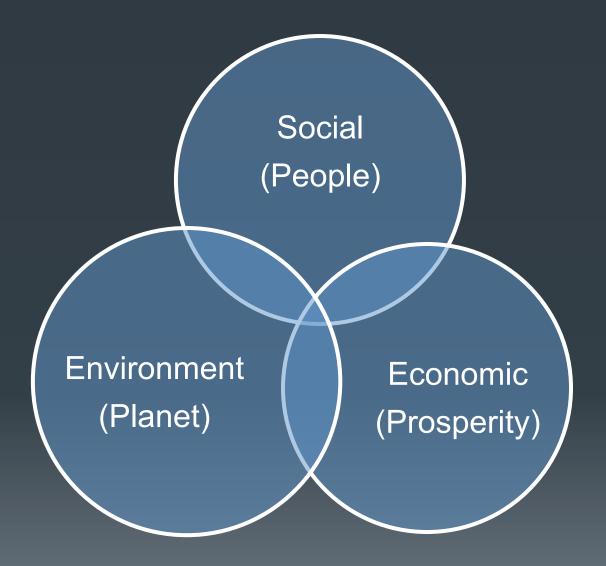
The
Smithsonian
requested
our printer







#### TRIPLE BOTTOM LINE







#### Planet

#### 1 MILLION pounds of carbon =

378 acres of forest planted

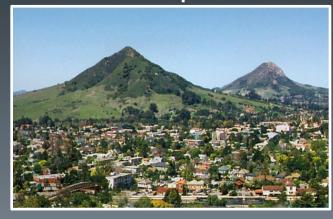


96 cars off the road

or



69 homes powered



or





#### People



For the Love of San Luis Obispo!





#### **Prosperity**









Pacific Gas and Electric Company®

## Opportunity



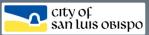
### Prosperity

#### Planet





People





# Project Construction

- Cogeneration (WRRF 1)
- Solids Management (WRRF 2,3,4)
- Flow Control Meters/RAS VFD's (5 & 7)
- Filter Towers (WRRF 6)
- Lighting (WRF 8)
- Process System Control (WRF 9)

# Solids Management





### Solids Management





### Solids Management





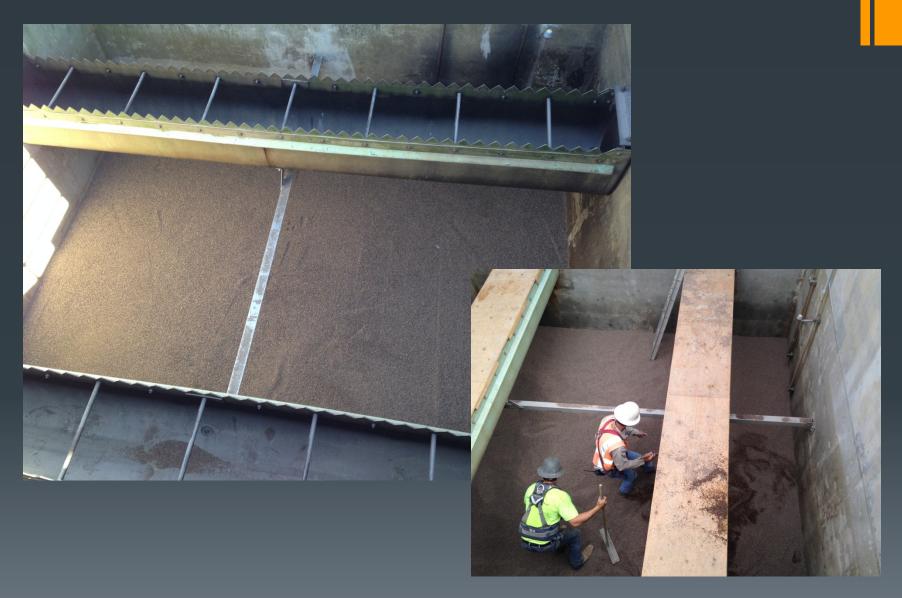
# Cogeneration

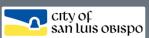






### FILTER TOWERS







### RAS VFD's



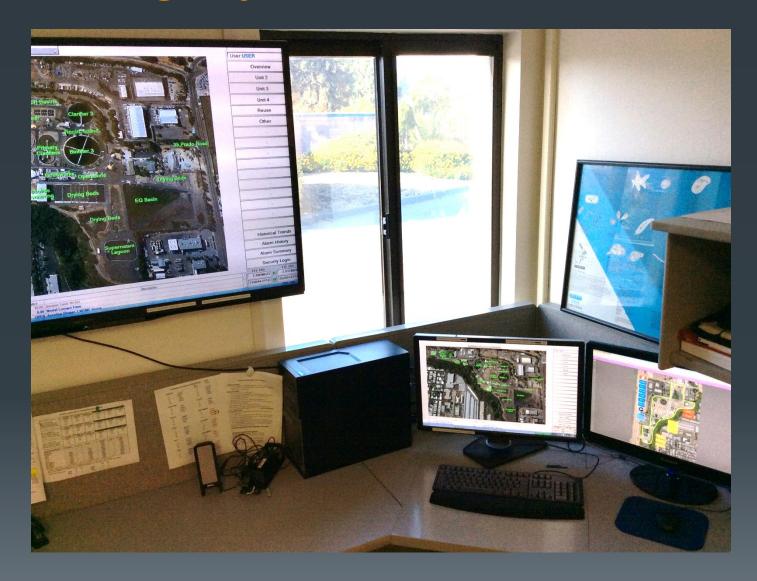


### FLOW CONTROL METERS



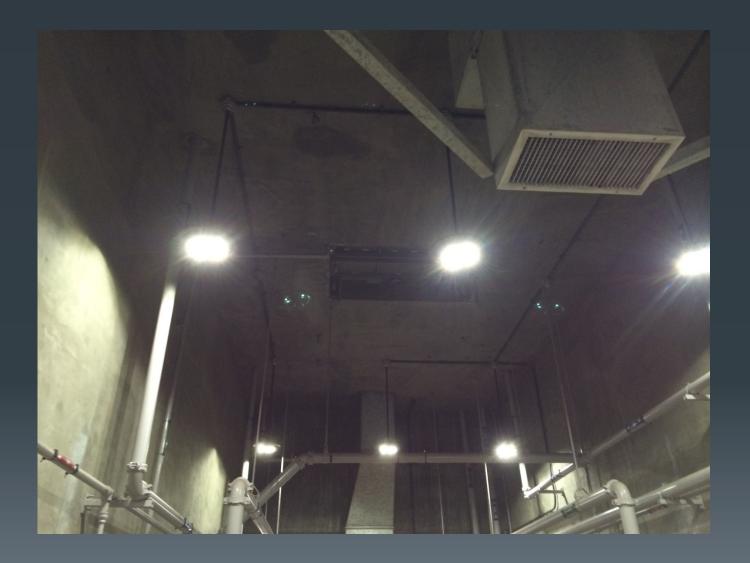


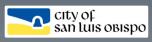
# Optimizing System Control





# Lighting







### Discussion

