



Santa Margarita
Water District

4.7 Award of Procurement Contracts for the Installation of Solar Power Production Facilities for the Chiquita WRP

Recommendation:

- Authorize staff to finalize negotiations with various solar equipment vendors with a combined “Not to Exceed” Value up to \$2,500,000.

Benefits:

- Install Cost Effective Sustainable Energy for the Chiquita WRP.
- Payback Period (4.5 years)

Opportunity/Risk:

- Install ~ 1,000 kW solar generation system that will greatly reduce power costs associated to Chiquita WRP. Need to be operational before November 20, 2015 to qualify for CSI rebate.

Background:

- The Board had previously approved the installation of solar production facilities at the Admin. Bldg.
- Project funding approach will allow for greater returns on Reserve funds (5%).
- Staff to serve as General Contractor with the ability to self perform and/or subcontract out components.



Santa Margarita
Water District

Chiquita WRP Project Status

- Project to Provide ~ 1,098 kw-dc solar power (~70% of total use)
- Solicited Equipment & “Turn-key” Quotations
- Multiple Quotes for Each Component
- Decision Point
 - Turn-key
 - Pre-purchase/contractor installed
- Too large to self perform all of construction
- CSI Rebate extension to allow for installation
- CEQA for Board Adoption August 5, 2015

CONCEPTUAL LAYOUT

AC Utility Disconnected - 4160
Electrical Interconnection

AC Main Combiner Panel
480 / 4160 V Transformer





Santa Margarita
Water District

Chiquita WRP Project Quotations Received

- Turn-Key Approach
 - \$2,635,200
- Self-Perform (Equipment Only)
 - PV Modules – \$837,000-\$913,000
 - Inverters – \$170,000-\$190,000
 - Mounting Systems – \$165,000-\$190,000
 - X-Frmr - \$20,000
 - Installation - \$500,000-\$800,000
 - Misc. Equipment/Wire - \$200,000 - \$350,000
 - Eng/Proj Mgmt - \$110,000
 - Total - \$2,002,000 – \$2,571,00



Santa Margarita
Water District

Chiquita WRP Project Additional Costs

- Engineering/Proj Mgmt - \$110,000
- Contingency - \$200,000

- Total Project - \$2,200,000 – \$2,750,000

