

Staff Report

DATE: May 11, 2010

TO: Water/Sewer Committee

FROM: Cari Dale, Water Utilities Director

SUBJECT: **RECOMMEND APPROVAL OF A POWER PURCHASE AGREEMENT AND SITE LEASE AGREEMENT FOR THE SAN LUIS REY WATER RECLAMATION SOLAR PHOTO-VOLTAIC SYSTEM LOCATED AT THE SAN LUIS REY WASTEWATER TREATMENT FACILITY**

SYNOPSIS

Staff recommends that the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve a power purchase agreement and a site lease agreement with SunEdison of Beltsville, Maryland for the San Luis Rey Water Reclamation Solar Photo-Voltaic system; and authorize the City Manager to execute the agreement.

BACKGROUND

The proposed project will produce an alternative source of energy at the San Luis Rey Wastewater Treatment facility. The goal is to enter into a Power Purchase Agreement (PPA) so the City will have a secure energy source alternative that will be below the cost the City would spend for that same amount of energy purchased from San Diego Gas & Electric (SDG&E) over the life of the PPA. In addition to this endeavor, the City also gains and owns Renewable Energy Credits which is required under California air pollution laws & regulations.

ANALYSIS

Over the past year, staff has investigated opportunities to implement the use of solar panels to generate approximately 25 percent of the energy needed to operate the City's San Luis Rey Wastewater treatment plant. Two main implementation options have been investigated. One is to design, build, and own our own solar panel generation facility. The second option is to negotiate a "Power Purchase Agreement." The difference between the two options is the first option requires the City to fund, own, and operate the facility. IN the second option, the City negotiates a cost per kilowatt hour

(kWh) for energy produced by the facility, which is designed, built, owned, maintained, and operated by the entity the PPA is entered into with. The PPA is economically favorable and the fair market value of the leasing of the real property subject to the PPA and Site Lease is anticipated to be offset by the value of the savings of the energy purchased under the PPA.

In February 2010, staff solicited Requests for Proposals from 14 solar energy services providers; 3 proposals were received. The proposals were reviewed by staff and SunEdison was selected as the best company for this project. The Water Utilities Department on behalf of the City began negotiations with SunEdison to develop a PPA acceptable to the City and an investor. The investors are large financial institutions that fund the project and will have the PPA assigned to them. The investors utilize federal tax credits, accelerated depreciation schedules, and State solar incentives to make the project financially viable.

The basic terms of the PPA are as follows:

1. The term is 20 years. At the end of the 20 years the City has the option of:
 - a) Purchasing the system at the then fair market appraisal as determined by an agreed upon appraiser; or
 - b) Paying to remove the system; or
 - c) Negotiating a new cost/KWh for energy produced for an additional 5 to 10-year period.
2. The City will lease to SunEdison an approximately 10 acre space. The lease terminates at the end of 20 years.
3. SunEdison will prepare all designs and obtain all necessary permits, except the solar incentive, to construct the project, including all coordination with SDG&E.
4. The project will produce at a minimum approximately 25% of the treatment plant's current energy requirement.
5. The solar panels have a 25-year warranty that specifies 80% efficiency or greater throughout the 25-year period.
6. The City is obligated to purchase all power produced by the project.
7. SunEdison is obligated to own, operate and maintain the solar system facility.
8. The City will assign its California Solar Incentives (CSI) funding rights to SunEdison.
9. The City will pay \$0.1250/KWh for all energy produced for a 20-year period with a 3% escalator annually.

The net savings of the project over 20 years is estimated to be approximately \$1,195,593. Assumptions used in the financial analysis include:

1. SDG&E rate for the City in 2009 was \$0.1357/kWh.
2. SDGE rates will escalate at 3% annually over the 20-year term.
3. A 20-year term.

If approved by all parties, it is anticipated the project would be commissioned prior to the end of 2010.

SunEdison on behalf of the City will submit an application to secure California Solar Incentives. The City of Oceanside Water Utilities Department will pay the approximately \$15,000 application fee required to apply for the incentive. The project is for a 1 Mega Watt AC (MW) facility, which is estimated to generate approximately 25% of the energy currently used at the San Luis Rey Wastewater Treatment plant.

Based on the current site conditions staff anticipate adaption of a Mitigated Negative Declaration (MND) in compliance with all California Environmental Quality Act requirements for the proposed solar energy project. The solar energy project as described in the MND is to construct a 1 MW solar power facility comprised of a solar panel array on approximately 10 acres located within the boundary of the City's San Luis Rey Wastewater Treatment Plant. A space utilization plan has been reviewed carefully confirming that with construction of the proposed solar energy project there is also sufficient space to accommodate any future expansion of the treatment plant. The final draft of the PPA will be reviewed by the City Attorney which could point out changes between the draft and final agreements. It is anticipated the only modifications between the draft and final agreement will be non-substantive.

FISCAL IMPACT

The Fiscal Year 10-11 proposed budget for the San Luis Rey Wastewater (800805721.5355) fund is \$2,120,000; the application fee for the California Solar Incentive Program is approximately \$15,000 and the specialized legal review of the PPA is approximately \$5,000-15,000. The combined potential total expenditure to the Water Utilities Department is approximately \$30,000. Therefore, adequate funds will be available.

INSURANCE REQUIREMENTS

The City's standard insurance requirements will be met.

COMMISSION OR COMMITTEE REPORT

Does not apply.

CITY ATTORNEY'S ANALYSIS

The documents are being reviewed by the City Attorney's office.

RECOMMENDATION

Staff recommends that the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve a power purchase agreement and a site lease agreement with SunEdison of Beltsville, Maryland for the San Luis Rey Water Reclamation Solar Photo-Voltaic system; and authorize the City Manager to execute the agreement.

PREPARED BY:

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