



LHUSD#1

SOLAR PHOTOVOLTAIC ELECTRIC GENERATING SYSTEM



Board Meeting 6-14-2011 BY:

APS *energy* SERVICES

SolarSiting

INDUSTRY STANDARD PRICING METHOD REDUCES RISK TO DISTRICT

- **District Only Pays for Energy Produced**
 - District Buys any Shortfall From UNES but Avoids Fixed Payment
 - Assumptions of Annual kWh per kW Amended
 - Monthly and Annual Billing True-up Simplified
- **Benefit of Any Over Production Belongs to the District**
 - UNES pays \$.0411 per kWh for Net Annual Over Production Each October
 - Larger Size Now Means Offsetting Higher Priced Future UNES Energy
- **Issues Related to Output Fluctuations Resolved**
- **System Owner Has More Incentive to Maximize Output**
- **Demand Savings Implemented by District Stay with District**

SYSTEM SIZING OPTIONS AND SAVINGS PROJECTIONS

- Projected Average Annual High School Usage = 4.3M kWh
- Two Options are Currently Contemplated
 - **Option 1:** 2.6 MW dc, 4.5 M kWh Annual Production Target
 - **Option 2:** 2.47 MW dc, 4.3 M kWh Annual Production Target

	MW kW DC	Target Annual kWh Production (Millions)	Year 1 Excess kWh Production	Cost Savings Projections					
				Energy Cost Savings		Potential Demand Cost Savings		Total Cost Savings	
				20 -Year	25-Year	20 -Year	25-Year	20 -Year	25-Year
Option 1:	2.6	4.5	200,000	\$1,670,767	\$4,940,898	\$527,265	\$636,375	\$2,198,032	\$5,577,273
Option 2:	2.47	4.3	0	\$1,186,504	\$4,134,272	\$527,265	\$636,375	\$1,713,769	\$4,770,647

PROPOSED SOLAR PRICING

- **Year 1 Price = 8.12 cents / kWh**
- **Price Escalates at 1.5% Annually**
- **Year 20 Price = 10.8 cents / kWh**

LHUSD AERIAL SITE MAP CHANGES

Allow
for Bus
Turn
Around

Move
from
Here
to
Here

Add
154
kW dc
Panels

