



**Novato USD Phase I Construction Update**  
September 6, 2016

David Williard, Principal  
Sage Renewable Energy Consulting

Adam Coll, Senior Project Manager  
Greystone West Company

# SOLAR PROJECT UPDATE

- Power Purchase Agreement (PPA) with SolarCity at 10 District sites to achieve maximum energy savings with minimal capital expenditures.
- SolarCity finances construction of project (~\$6M) and sells energy to District at lower rate than utility.
- Only up front cost to District are legal, procurement/construction management, inspections, and testing: ~\$325K (budgeted \$600K)

# EXPECTED FINANCIAL PERFORMANCE

Avg. PPA Rate, 20-yr, 0% escalation	\$0.1473/ <sub>kWh</sub>
SolarCity Project Development Cost	\$6.0M
District Project Development Cost	\$325K
Year 1 Savings vs. Utility	\$160K
Simple Payback	2.0 yrs.
25-Yr Savings vs. Utility, Nominal \$	\$7.5M
25-Yr NPV, 3.5% DR	\$4.4M

# SOLAR PROJECT PROGRESS

- Summer construction has reached substantial completion at all sites.
- Heavy construction complete; light electrical work and system commissioning to be completed throughout September and into early October.
- All systems expected to be interconnected and producing energy in November
- Final completion on schedule.

# TARGETED CONSTRUCTION COMPLETION DATES

Loma Verde - September 27<sup>th</sup>

Lynwood - September 23<sup>rd</sup>

Olive - September 28<sup>th</sup>

Rancho - September 30<sup>th</sup>

San Jose - September 30<sup>th</sup>

Hamilton - October 3<sup>rd</sup>

Novato High School - September 20<sup>th</sup>

Pleasant Valley - September 27<sup>th</sup>

San Marin - September 16<sup>th</sup>

Sinaloa - September 23<sup>rd</sup>

*Interconnection dates to be determined by PG&E*

# CONSTRUCTION PROGRESS



Hamilton Solar Canopy – August 19, 2016



Novato HS Solar Canopy – August 17, 2016

# CONSTRUCTION PROGRESS



Loma Verde ES Solar Canopy – July 27, 2016



Lynwood ES Solar Canopy – July 29, 2016

# CONSTRUCTION PROGRESS



Olive ES Solar Canopy – July 27, 2016



Pleasant Valley Solar Canopy – July 27, 2016

# CONSTRUCTION PROGRESS



Rancho ES Solar Canopy – August 2, 2016



San Jose MS Solar Canopy – July 29, 2016

# CONSTRUCTION PROGRESS



San Marin HS Solar Canopy – August 22, 2016



Sinaloa MS Solar Canopy – August 19, 2016

# EDUCATIONAL COMPONENT

- SolarCity partners with the National Energy Education Development (NEED) Project
- Kickoff Meeting 8/25/16 with SolarCity, NEED and District
- Curriculum and Materials based on STEM
- Strong Project Based Learning (PBL) component
- Includes exercises using real time monitoring data from actual solar projects
- \$10,000 budget for materials or training (\$1,000 per school going solar)
- Next Step: Meeting on September 17 to review materials

