



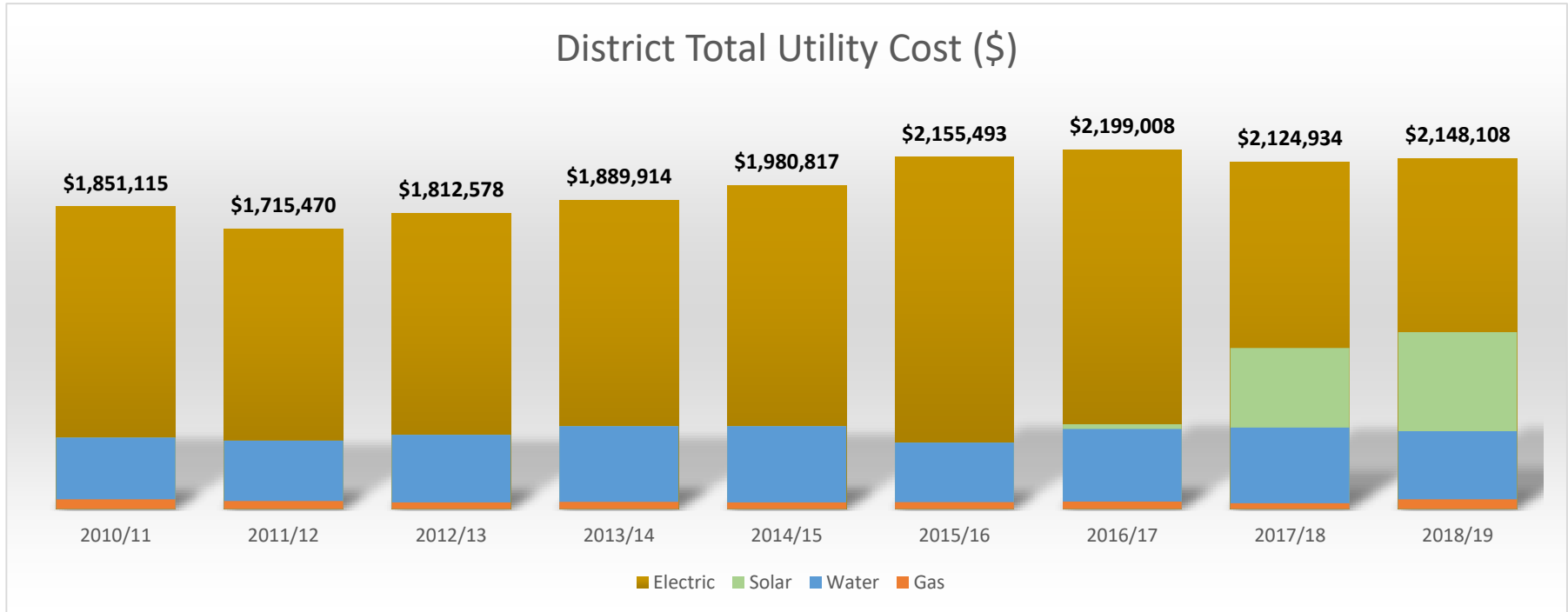
Energy Management Update

Korey Lawson, PE
SJUSD Energy Manager

Topics

- Multi-Year District-Wide Comparison of Energy Usage and Cost
- Solar
- Energy Projects
- Public Safety Power Shutdown

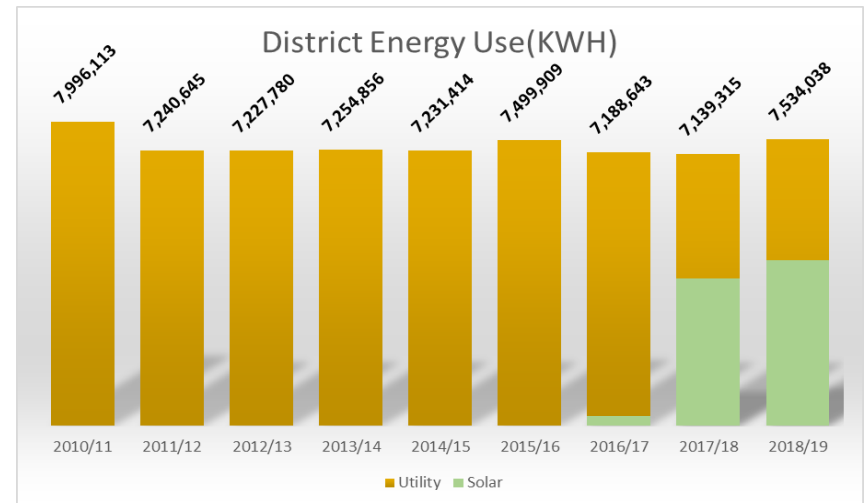
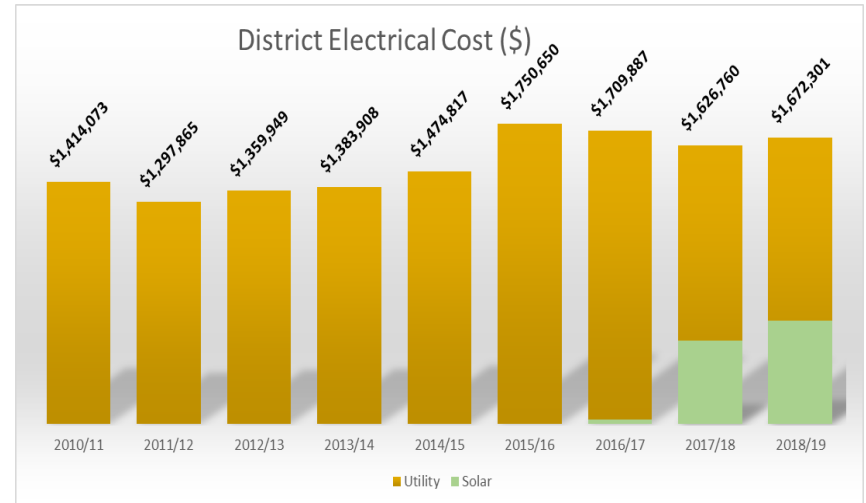
Multi-Year Comparison



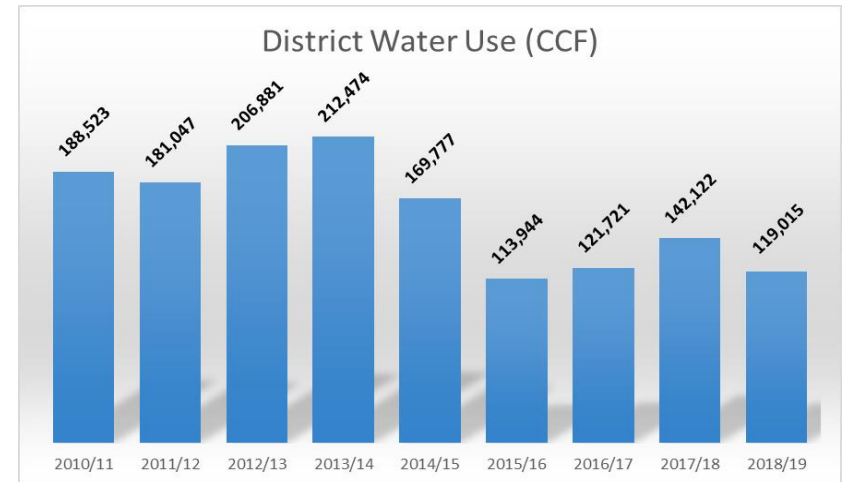
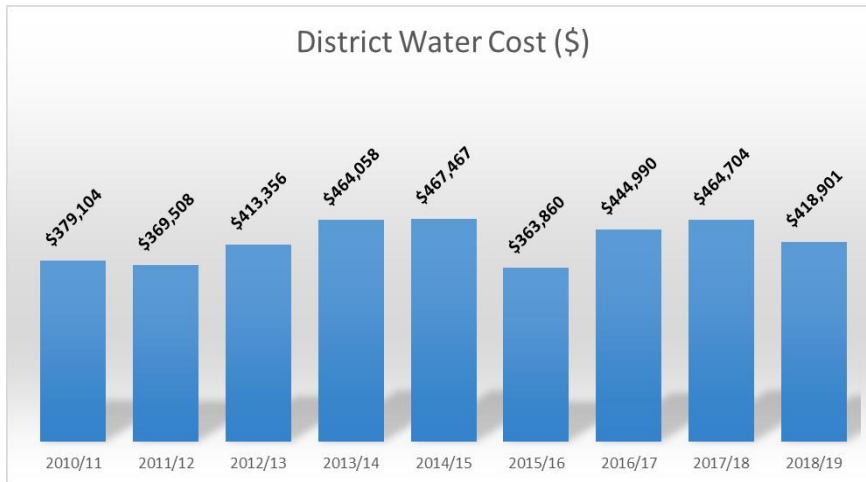
- Costs have leveled off
- Highly correlated to outside temperature

Multi-Year Comparison

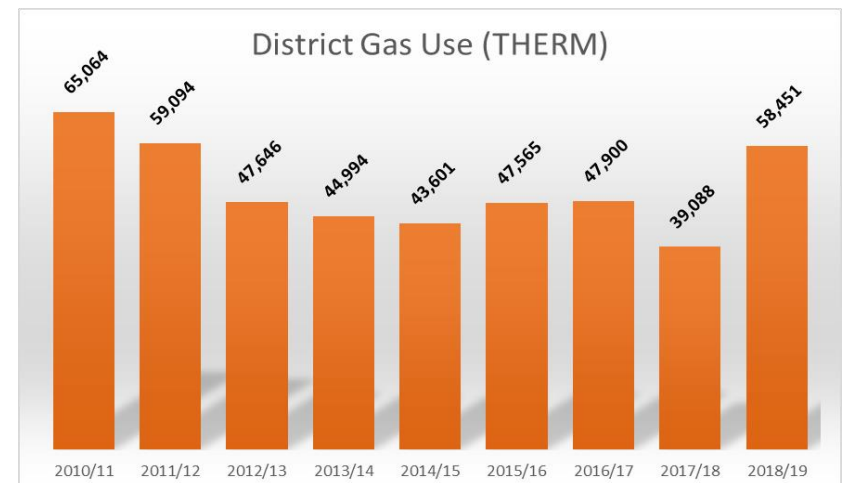
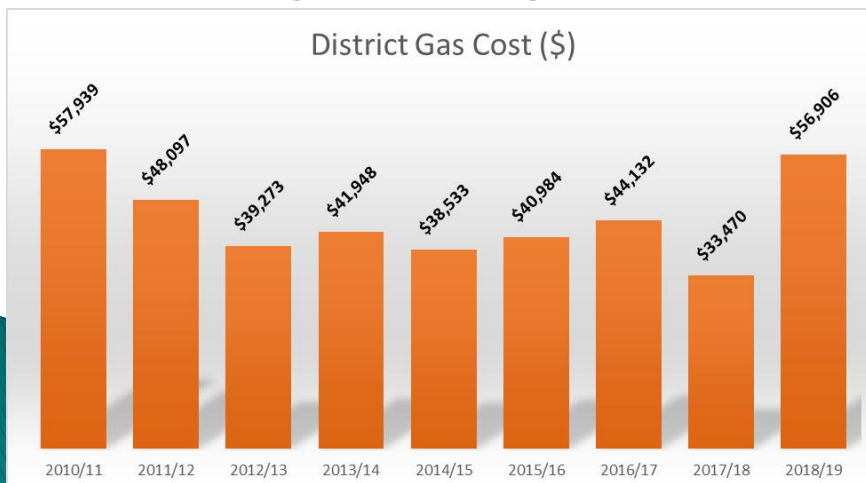
- Southern California Edison (SCE)
 - Usage and demand charges
- San Jacinto Power CCA
 - Generation charges
 - 3% lower than SCE
- Tesla Energy
 - solar generation
 - battery storage charges
- SJUSD Board of Trustees
 - Took action and lowered cooling setpoints in 2017/18



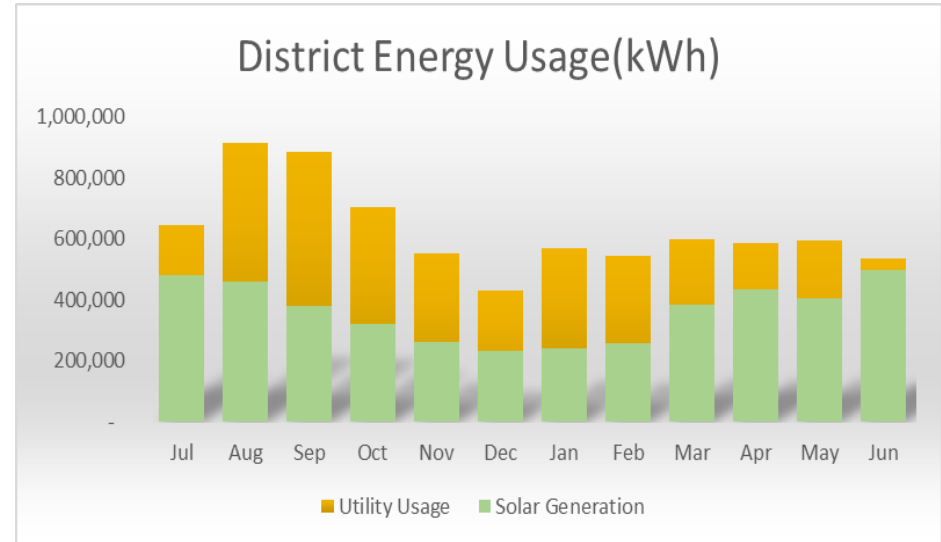
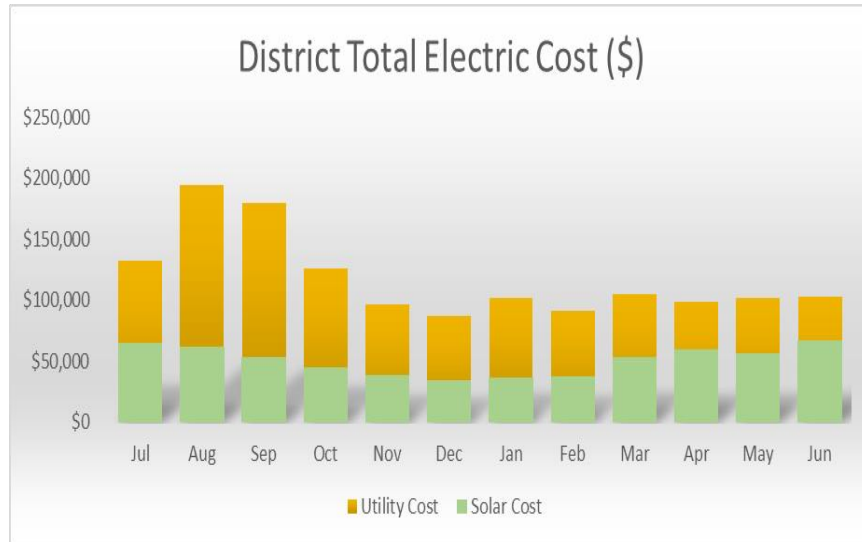
Multi-Year Comparison



- Lower water usage due to heavy rains this year
- Lower water usage due to turf removal and drought
- Natural gas usage increased due to cold/wet weather



Solar



- 58% renewable energy for 2018/19
- Estimated savings
 - 2016/17: \$19,810
 - 2017/18: \$559,276
 - 2018/19: \$495,495
 - Total: \$1,074,581
 - Based on blended rate
 - Drop from 2017/18 to 2018/19 is due to lower cost from San Jacinto Power

Energy Projects

Proposition 39 Energy Projects

- LED Lamps: 10,497
 - Hyatt Elementary
 - North Mountain Middle
 - San Jacinto High
- HVAC: 161 Units & WiFi Thermostats
 - De Anza Elementary
 - Estudillo Elementary
 - Hyatt Elementary
 - Park Hill Elementary
 - San Jacinto Elementary
 - Monte Vista Middle
 - San Jacinto High Bldg. 400
 - San Jacinto High Portables



Estimated Annual Cost Savings: \$96,000
Total Amount Received: \$2.27 Million

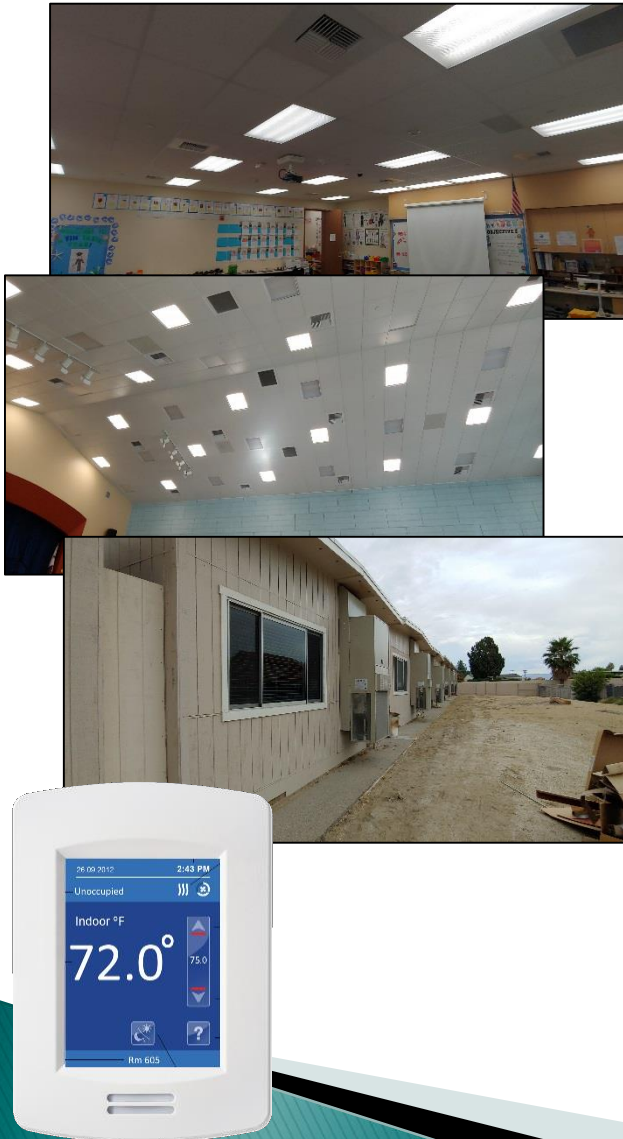
Energy Projects

Other Energy Projects

- LED Lamps
 - Megan Cope and Nutrition Services
- HVAC: 15 Units
 - SJLA and Mountain View
- WiFi Thermostats
 - District Office

Current Projects

- SJHS SCE/Red Cross Resiliency Center
- Hyatt/SJE Energy Management System
- District-Wide HVAC Quarterly Maintenance



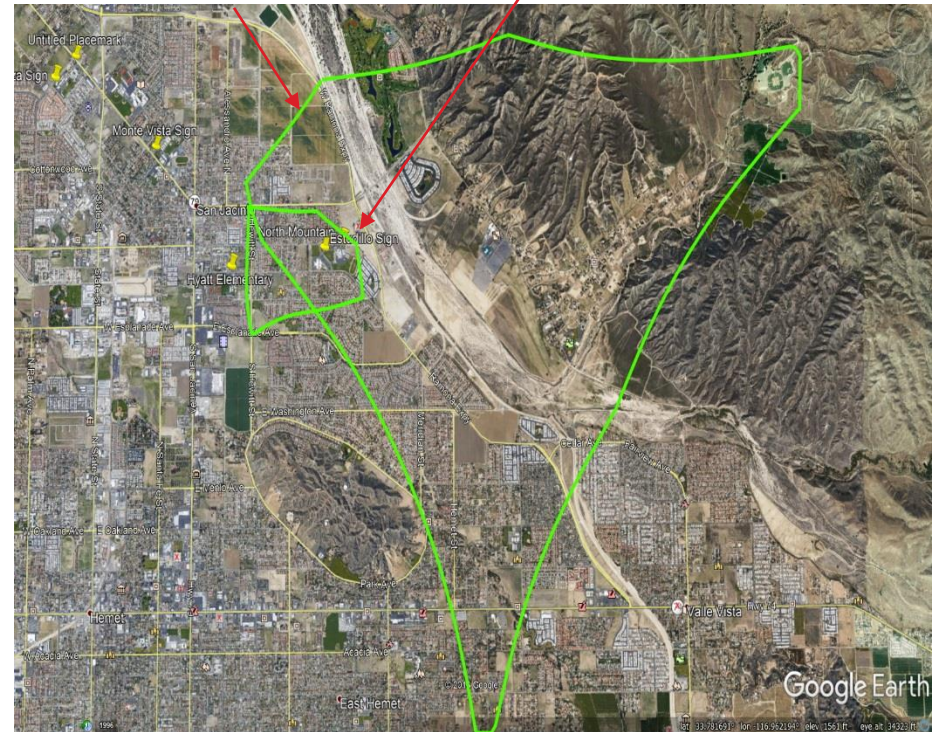
Public Safety Power Shutdown

PSPS

- Proactive wildfire prevention
- 2 day notice prior to high wind event
- Resiliency Center
 - Response to PSPS
 - SJHS Micro-grid
 - Pilot School, first for all SCE territory
- Shutdown individual “Circuits”
- Shutdown based on proximity to high fire risk areas

Estudillo
Dartmouth Circuit

North Mountain
Minor Circuit



Questions?