



# SUSTAINABILITY PROGRAM UPDATE

### SUSTAINABILITY PROGRAM OVERVIEW

- Trane Energy Savings Projects Updates
- Solar Overview
- IUSD EV Charging Plan
- SB 1383 Organic Food Waste Recycling





## SELF FUNDED ENERGY SAVINGS PROJECT BY TRANE: PHASE I UPDATES

- Purpose: Replace old inefficient equipment, save energy use and costs at 11 sites
- Scope of Work: LED lighting upgrades and replacement of HVAC, Controls, and Transformers. Scope was assessed, prioritized and reviewed by IUSD staff.
- Status: 95% complete
- Paid to Date: \$6.8 Million of \$7.2 Million
  - Pending Measurement & Verification of Savings Reports
- **Project Completion:** Summer 2023





## SELF FUNDED ENERGY SAVINGS PROJECTS PHASE I

### **11 Completed Energy Saving Projects**

- Alderwood ES
  - LED
- Bonita Canyon ES
  - LED, HVAC
- Turtle Rock ES
  - HVAC
- Culverdale ES
  - LED, Transformer
- College Park ES
  - LED, Transformer

- Northwood ES
  - LED, Transformer
- ECLC
  - HVAC, Controls, Transformer
- Sierra Vista MS
  - LED, Transformer
- Woodbridge HS
  - LED, HVAC, Transformer
- Northwood HS
  - LED, Transformer
- Irvine HS
  - HVAC, Transformer

- Phase I targeted the sites with the highest energy usage and costs
- Phase II is still to be determined.



## CURRENT AND FUTURE SOLAR OVERVIEW

#### First System Activated in August 2010

Most recent solar projects: Solis Park, Creekside HS, Venado MS, Deerfield ES

Summer 2022 thru Winter 2023

#### Currently 48 Solar Arrays at 37 Sites (80% of all sites)

- > 21 Rooftop Installations
- > 27 Solar Vehicle Shade Structure Installations
- > 13.2 Megawatts of Generating Capacity
- > As of June 30, 2022, cumulative energy savings have been estimated at \$3.9 Million

**SCE's RES-BCT Tariff** allows non-solar sites (beneficiary accounts) to benefit the same carbon offsets and savings as the solar sites (host accounts)

### **IUSD on a path to reach Carbon Negative emissions by Summer 2023!!**

(Offsetting more carbon emissions through solar renewable energy than contributing to the environment)



### Spring/Summer 2022 Solar Vehicle Shade Structure Installations



System size 941 kW DC Site Energy Usage Offset: 1,456 MWh per year \*Our largest solar system



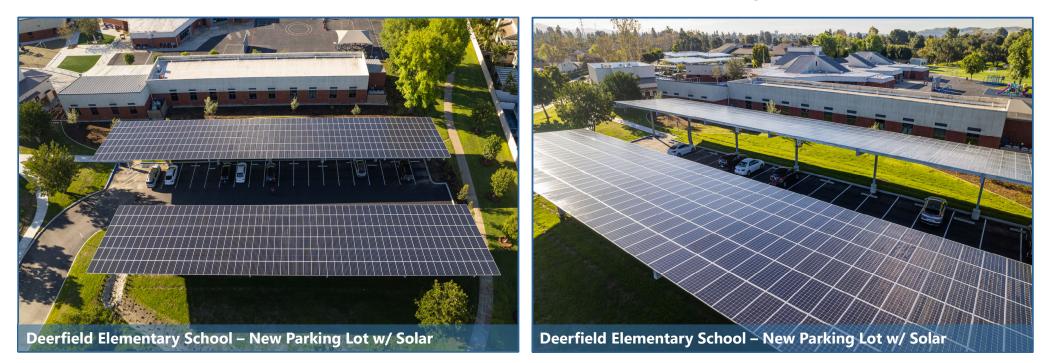
### Summer 2022 Solar Vehicle Shade Structures and New Parking Lot Installations



System size 313 kW DC Site Energy Usage Offset: 474 MWh per year



Summer 2022 Solar Vehicle Shade Structures and New Parking Lot Installations



Adds an additional 42 New Staff Parking Spaces; 2 ADA stalls System size 258 kW DC Site Energy Usage Offset: 390 MWh per year



### Spring/Summer 2022 Solar Vehicle Shade Structure Installations

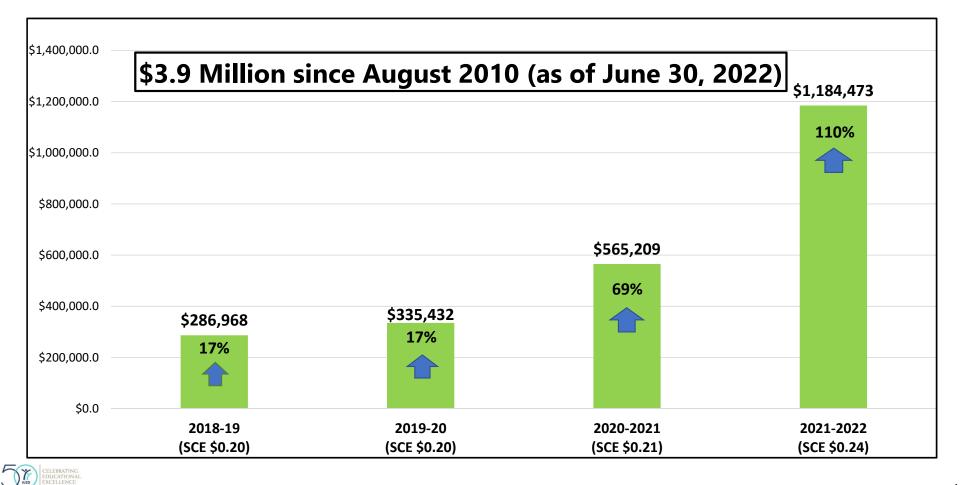




System size 674 kW DC Site Energy Usage Offset: 1,016 MWh per year



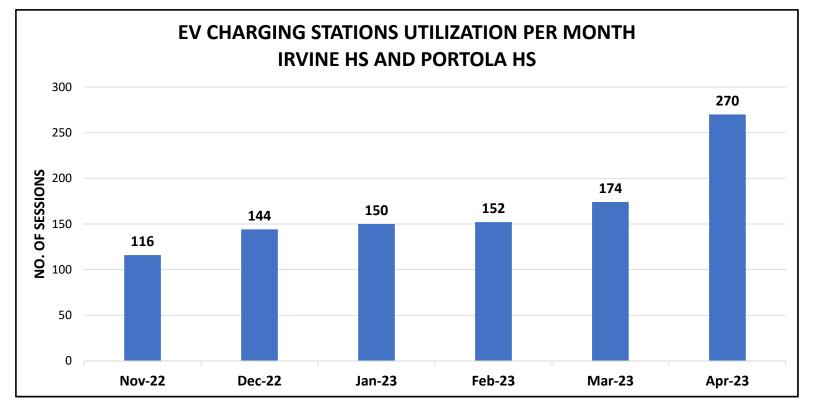
## ANNUAL SOLAR AVOIDED COST



## **IUSD EV CHARGING STATION PLAN**

#### **Current Program: SCE Charge Ready Pilot**

- Irvine HS 6 Chargers
- Portola HS 6 Chargers





## **IUSD EV CHARGING STATION PLAN**

#### Future EV Charging Station Plan for remaining High Schools and K-8 Schools

- 10 EV Chargers at High Schools
  - ~2% total stall capacity
- 5 EV Chargers at Elementary and Middle Schools
  - ~5% total stall capacity be utilized for EV Chargers

#### SCE's Customer Ready Rebate Program – 80% rebate for infrastructure only

- Northwood HS and Creekside HS been <u>approved</u> for 10 stations
- University HS on <u>waitlist</u> for 10 stations
- Woodbridge HS <u>pending</u> approval for 10 stations
- Cadence Park School on <u>waitlist</u> for 5 stations

**California Electric Vehicle Infrastructure Project (CALeVIP)** – offers rebates for the purchase and installation of EV Charging Stations

• Application pending review and approval for all sites

**Exploring PPA finance Structure (no cost to IUSD)** to provide infrastructure and EV Chargers with third party **Exploring Electric Fleet** and **School Bus** Funding Opportunities



### **SB 1383: ORGANIC FOOD WASTE RECYCLING IN CA**

- **California Target:** achieve 75% reduction in the level of statewide disposal of organic waste by 2025 and reduce methane emissions.
- Effective **January 1, 2022**, all California schools are required to separate organic food waste from trash and non-organic recyclables and participate in an organics collection program.
- Effective **January 1, 2024**, schools with an on-site food facility (like school cafeteria) will be required to recover edible food and donate to a food recovery organization.





