

DOCKETED

Docket Number:	17-IEPR-08
Project Title:	Barriers Study Implementation
TN #:	220473
Document Title:	Chollas EcoVillage A Zero Net Energy (ZNE)
Description:	8.1.17 Presentation by Ed Lopez of Groundwork San Diego-Chollas Creek
Filer:	Raquel Kravitz
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/1/2017 7:41:28 AM
Docketed Date:	8/1/2017

Chollas EcoVillage



**A Zero Net Energy (ZNE)
Advanced Energy Community**

A Project by Groundwork San
Diego Funded by the
California Energy Commission
EPIC Program

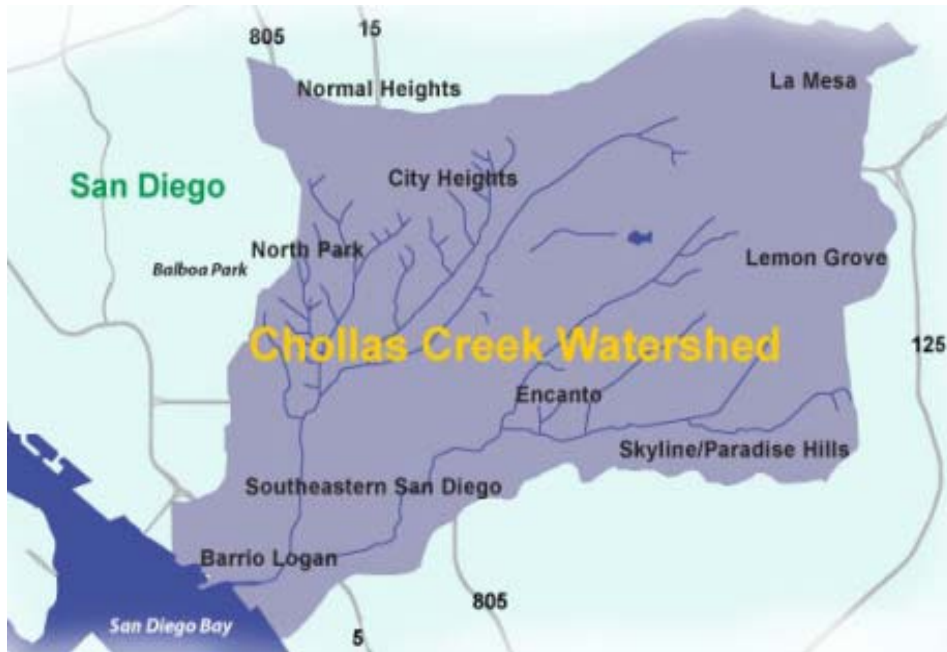


**Groundwork
SAN DIEGO**
Chollas Creek



Groundwork San Diego – Chollas Creek

2017 SDG&E Environmental Champion



- A Decade of Environmental Justice!
- Working with the community to restore Chollas Creek
 - ✓ Watershed Management
 - ✓ Chollas Creek-to-Bay Bikeway
- EarthLab UCSD Community Station
 - More than 2,000 students
 - Over 17,000 student hours
- Energy – Water Management Efforts
 - DWR Water Conservation Upgrades
- Chollas Creek Regional Park

Chollas EcoVillage DAC & ZNE

The Community

- CalEnviroScreen > 80%
- Incredible Diversity
 - Hispanic = 61%; Black = 21%
 - API = 21%; White = 3%
- Household > 2000+ Residents
 - Owner = 42%; Renter = 58%
 - 900+ SFDUs
 - 700+ MFDUs
 - AMI = \$36,000
- 6 SDUSD School Sites
 - 85% > F/R Lunch

EPIC Grant

- Master Plan neighborhood into a ZNE community
 - Create a model for community-based, participatory climate action transformation
 - Develop local, community renewable energy generation
- Support San Diego Unified School District's goal of ZNE facilities
- Advance the City of San Diego Climate Action Plan



DAC Outreach

- Climate Action survey (tri-lingual)
- Chollas EcoVillage media campaign:
 - ✓ Print/broadcast media;
 - ✓ Facebook “Take the Pledge;”
 - ✓ Smart Phone Text “Take the Pledge”
- Outreach by young adults - Millennial Tech MS “Climate Action Ambassadors”
 - ✓ English
 - ✓ Spanish -

https://youtu.be/w_a_2p1IrKA





Lessons Learned

- Climate action driven at the neighborhood-scale by shared local concern (heat, air, health)
- Engagement requires neighborhood-scale organizing to mitigate immigration-scam scares
- Need for a trusted CBO to implement and deliver information and content is paramount
- The CBO can, in turn, introduce and bring in other partners for optimal success
- Outcomes of engagement should be communicated by residents to fellow residents & decision-makers
- DAC residents demonstrate a compelling interest in Climate Action but outreach must be culturally-competent and cross-generational

Community Renewable Projects with SDUSD & City of San Diego as Site Hosts



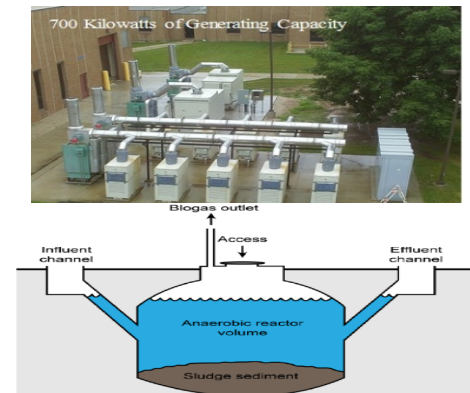
Community Solar

Location: EarthLab & School Sites



Fuel Cell w/ BioGas

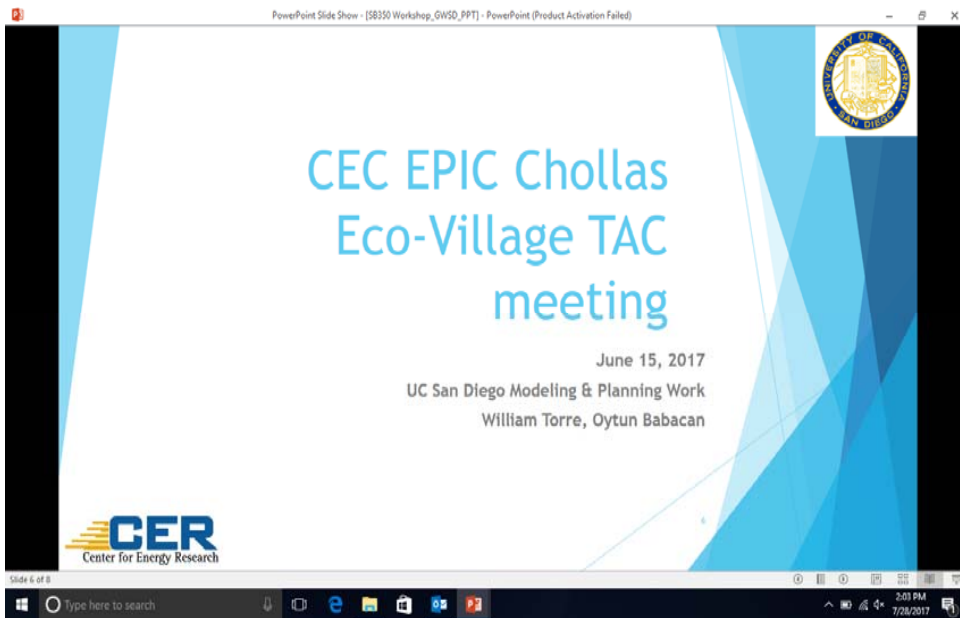
Location: EarthLab



BioDigester w/ Turbines

Location: Chollas Landfill (City of SD)

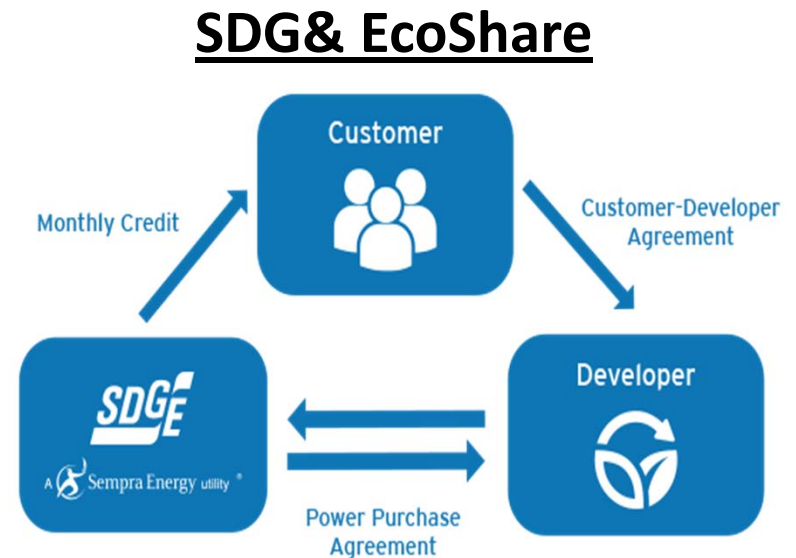
UC San Diego Center for Energy Research as Technical and EJ Partner



- List of potential distributed energy resources (DER)
- Potential Locations for Energy Resources
- Energy Efficiency Improvements
- Community Load Requirements
- Community Load Breakdown by Customer Class
- Capital Cost of Resource Scenarios
- Levelized Cost of Energy
- Energy Efficiency Improvements
- DER Financial Analysis

Generating Accessible & Affordable Renewable Energy

- Leveraging public incentives with private investment
- SDG&E EcoShare - SB43 Program
- IOU customers purchase renewable energy from community-based projects
- Customers receive a bill credit from SDG&E based on the size of their renewable energy purchase and a bill from the Community Renewable Developer
- Groundwork partners with SDUSD
 - District property vacated by CalTrans
 - Schools also subscribe to program



EV Adoption in Chollas EcoVillage

- EV Affordability
 - Forthcoming announcements for cash rebates on certain models
 - Working with OEMs for used EVs
 - CA Incentives including proposed AB 1184 (Ting) for cash rebates
 - Focus group of the 2000 UCSD employees residing in DACs with ample workplace charging
- EV Charging Accessibility
 - VW Settlement Agreement
 - 8 DAC sites proposed as a subset to UCSD's VW application
 - San Diego designated priority region
 - DCFC units @ high volume corridors
 - SDG&E Power Your Drive Program
 - Forthcoming CEC EVSE Funding
 - Home and MUD demonstration sites under UCSD's research
 - Regional EVSE Readiness Programs

Chollas EcoVillage Team



Groundwork
SAN DIEGO
Chollas Creek

