San Diego Tribal Energy Collaborative

DOE Presentation - November 2016

San Pasqual General Information

- San Pasqual Indian Reservation was established by Presidential decree in 1910
- The San Pasqual Indian Reservation is located in northeastern San Diego County, California, near Valley Center
- The San Pasqual Indian Reservation is two miles north of the Rincon Band of Mission Indians, and is nearby several other Indian Reservations including Pauma, Pala, La Jolla, Santa Ysabel, Mesa Grande, Los Coyotes, and Pechanga among others

San Pasqual Land and Acreage

- The Reservation encompasses approximately 2,956 acres
- Approximately 2,100 acres of trust land and 856 of fee land
- San Pasqual is considered a "checkerboard"
 Reservation, as it does not occupy one contiguous land mass
- The San Pasqual Reservation is divided into three Districts: A, B, and District C

Tribal Demographics

- Current enrolled Tribal Membership consists of approximately 250 Tribal members and over 1,200 lineal descendants
- The Reservation population is between 1400 1600 total residents, occupying about 335 homes
- The majority of homes and residents on the Reservation currently reside in Districts A and B, with a small population and clusters of homes on District C



Project Partners

- La Jolla Band of Luiseno Indians
- Mesa Grande Band of Mission Indians
- San Pasqual Indian Band of Kumeyaay Indians
- GRID Alternatives (non-profit)

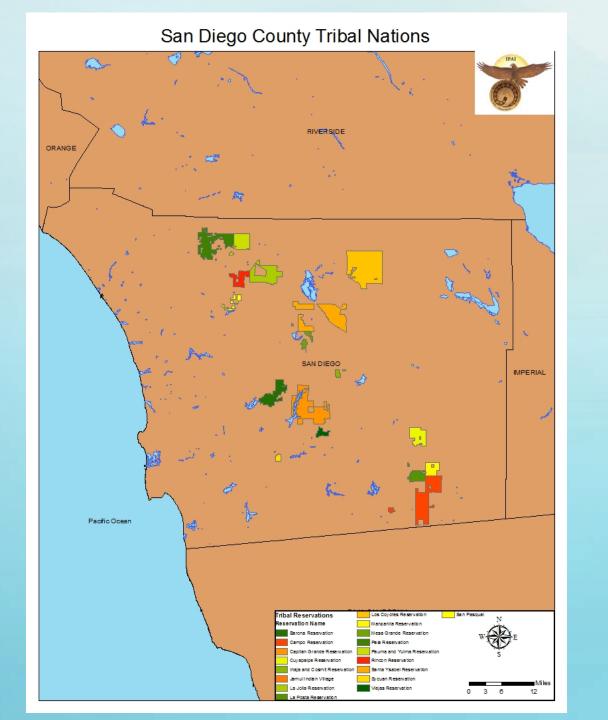












18 Tribal Nations in San Diego County

San Diego County has more Tribal Nations than any other county in the US



Project Description

- The Project consists of designing, installing, inspecting, and interconnecting 42 grid-tied, solar electric systems, totaling at least 170 kW rated capacity
- 40 qualified existing low-income single-family homes located within the San Pasqual, La Jolla, and Mesa Grande reservations, which will provide at least 50% savings in displaced electricity
- As well as install two grid tied systems for the San Pasqual tribal education facility and the La Jolla tribal community center
- Community volunteers and Tribal job trainees will assist with the installations, gaining valuable hands-on experience



Project Outcomes

- 42 grid-tied, solar electric systems, totaling at least 170 kW rated capacity
- Generating over \$1.8M worth of power for low-income families over their lifespans
- Eliminating an estimated 3,750 tons of greenhouse gas emissions
- Provide hands-on solar installation training to at least 20 Tribal community volunteers and job trainees
- Homeowners will be educated on energy efficiency and renewable energy



Further Details

- Not "off the grid"
- Net metering still tied into the grid
- No battery backup any power outage results in no electricity to the home
- Homeowners see a 35% to 75% reduction in their electrical usage
- 3rd party inspector verifies all work completed by GRID before the system can be energized



La Jolla Reservation Created by: John Flores Date: 11/11/15

La Jolla Reservation

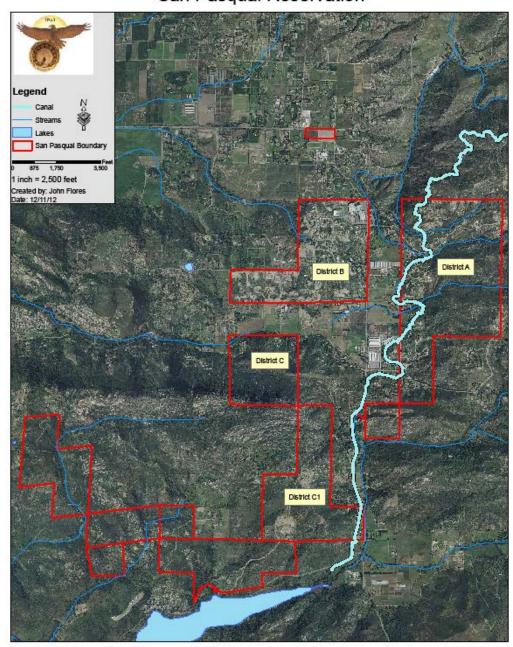


Mesa Grande Reservation

Mesa Grande Reservation

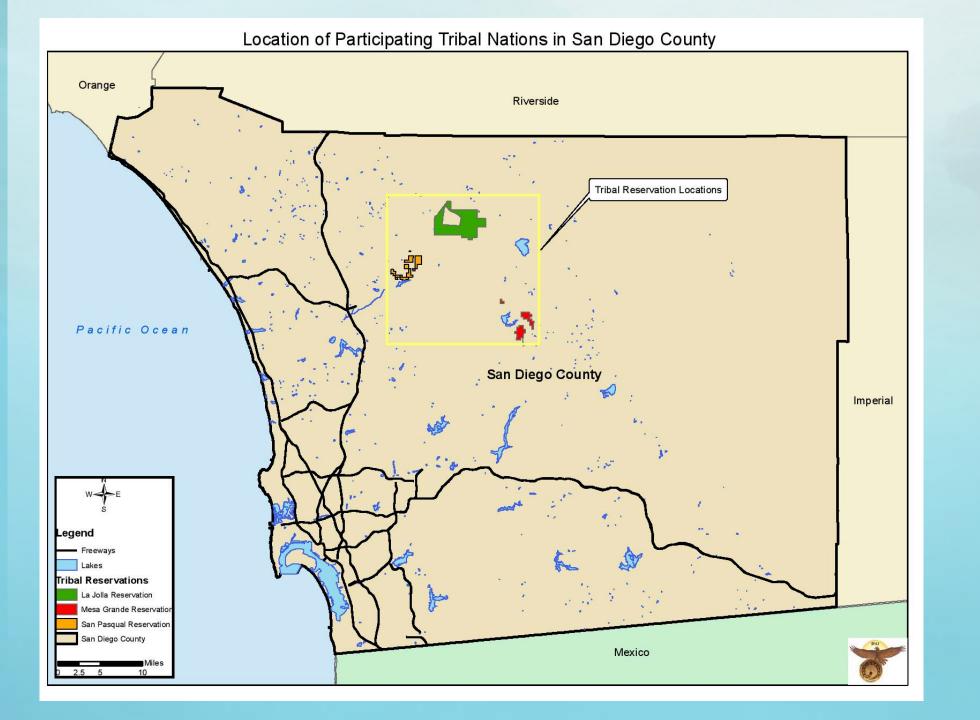


San Pasqual Reservation

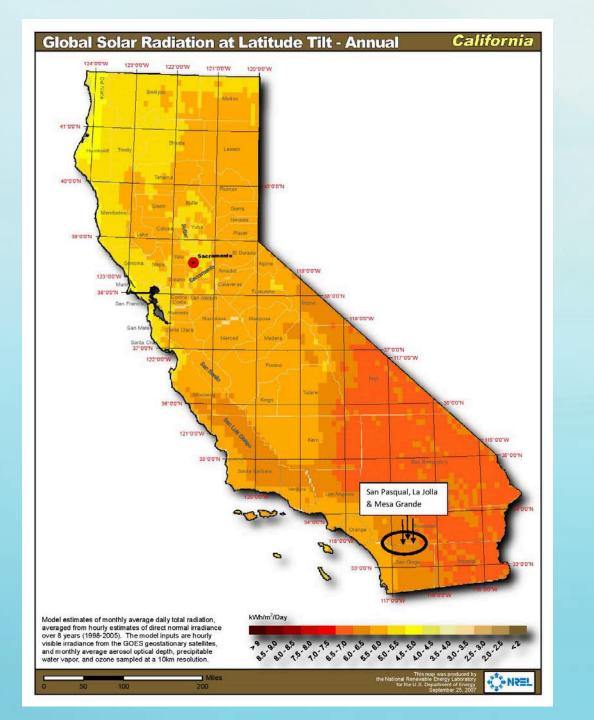


San Pasqual Reservation









San Pasqual & GRID Partnership

- Working with GRID Alternatives to provide installation of photovoltaic systems to low income homeowners at no cost
- Working with GRID since June 2011
- 335 homes on the San Pasqual Reservation
- First installation was completed in August 2011
- Since completed 44 installations on the San Pasqual Reservation

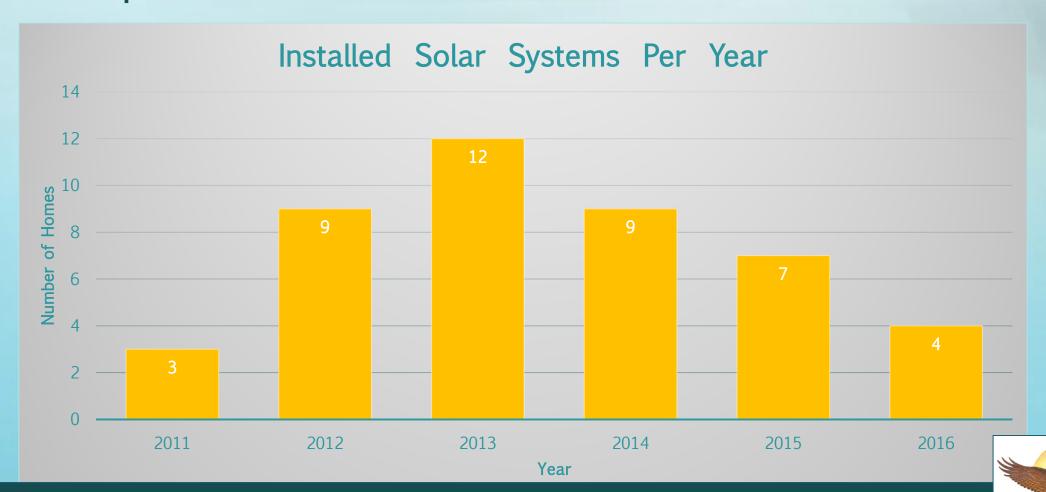


Solar Projects on San Pasqual

- 44 homes with solar through GRID Alternatives
 - Cash value of over \$880,000
- 5 additional homes with solar through private companies
- Installed 3 residential solar systems with GRID Alternatives Solar Spring in 2016 (Arizona State) and 6 in 2015 (University of Michigan & Claremont Mckenna)



Solar Installed from 2011 – 2016 (San Pasqual)



Solar Spring Break 2016





Home Installation





Home Installation



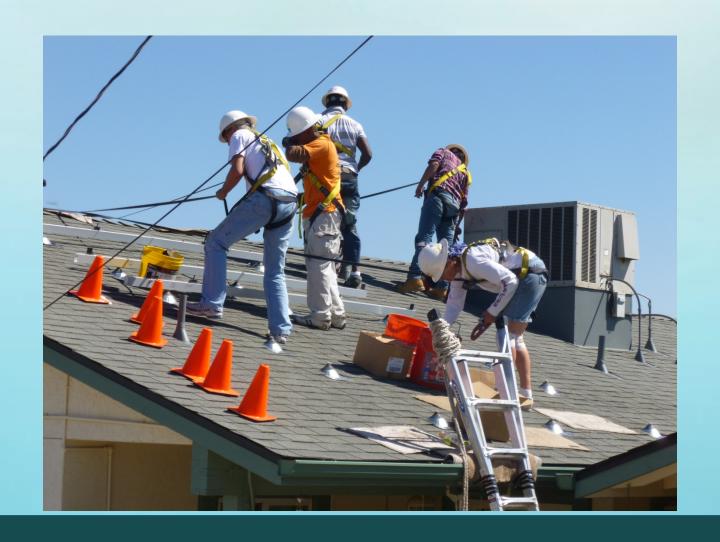
































would like to have your septic mapped

nvironmental Department so we can

please do not hesitate to call the

John Flores, Environmental &

Domestic Water Manager at 760-651-5141 iphnf@sanpasqualtribe.org

 Desiree Morales-Whitman, Environmental Manager at 760-651-5142

desireem@sanpasqualtribe.org

- Melissa Morales, Environmental Coordinator at 760-651-5143 melissam@sanpasqualtribe.org
- · Roland Escarcega, Water Master
- Louie Morales, Water Technician

Bi-monthly newsletters help us to constantly educate and provide environmental updates to the community .



During the past year San Pasqual's Environmental and Water Departments have promoted different ways to reduce water usage in and around your home. Throughout the year we have seen a great response, many homeowners have taken advantage and put to use the free faucet aerators and shower



heads provided by SDG&E. But during California's current drought status and with Governor Brown directing the statewide mandatory water reduction we as a community need to continue in our efforts to reduce daily water usage.

There are many great websites with helpful tips and examples on how Californians are saving water such as;

www.saveourwater.com

www.socalwatersmart.com

www.wateruseitwisely.com

www.watersmartcheckup.org

On top of the water reduction information some websites have information on Water Smart Landscaping.

www.landscapemakeover.watersmartsd.org

Provides information on upcoming classes that provide instruction from industry professionals, that will educate you on how to develop a landscape makeover plan that works for your yard and climate.

A large part of water reduction efforts are now focused on landscapes and many cities including Valley Center now have mandatory reductions on irrigation. A fun way you can start saving on water usage would be to take out some of your water dependent grass and plants and creating a drought friendly landscape by using California native plants.

Many of the Native plants on our reservation are drought tolerant and have adapted to the dry climate and tuff soil we have so they are perfect to start your drought friendly landscape. Now I'm not saying to let the weeds grow wild but rather to use our natural resources in a manner that fits you. Using the same native plants and resources around your home design your landscape around your family.

Pathways and patio areas can be made out of River Rock, Flagstone, Gravel, Boulders or sitting wall blocks instead of grass. In areas were the kids play that we usually prefer grass in maybe try wood chips or artificial turf.

A few colorful and attractive native plants:

↓ Lavende

Liriope

Rosemary Tuscan Blue
 Mexican Feather Grass

Small succulents

Date Palm

Acorus

Golden Shrub Daisy

Install rain barrels with drip irrigation to the plants and areas that need the most water, such as gardens.

Creating a native friendly landscape will not only be relaxing and visually pleasing but water friendly. It will reduce your usage significantly and save water for the important things in your life.







Domestic Water Department

- . John Flores, Environmental & Domestic Water Manager at 760-651-5141 johnf@sanpasqualtribe.org
- . Desiree Morales-Whitman, Environmental Manager at 760-651-5142
- desireem@sanpasqualtribe.org Melissa Morales, Environmental Coordinator at 760-651-5143 melissam@sanpasqualtribe.org
- · Roland Escarcega, Water Master
- · Louie Morales, Water Technician

f you suspect a water or septic leak or would like to have your septic mapped lease do not hesitate to call the Environmental Department so we can

Transfer Station Hours

CLOSED

La Jolla & Pauma **Earth Day 2015**



For those not in attendance La Jolla and Pauma Earth Day 2015 was a great success. There was a lot fun for the family and very helpful information on Climate Change and ways that we can help lower our carbon foot print. There were a lot of organizations in attendance including many Tribal Environmental Departments that were providing information on all the latest environmental topics and handing out cool and useful environmentally friendly products. San Pasqual Environmental Department hosted a booth focused on reduce, reuse and recycling skills by introducing our k-cups for the garden project. Booth visitors were taught simple everyday steps to recycling and reuse of products no longer desired and participated in planting seeds in recycled K-Cups. Booth

Other cool giveaways included reusable water bottles, totes, emergency flash lights and whistles. Children participated in fire safety training, coloring contests, games and activities. If you were not able to attend don't forget to check out the upcoming events for more fun filled family events.



Upcoming Events





Massage Therapists • Chiropractor • Podiatrist • Youth Activities ◆ Information Booths ◆ Speakers ◆ Drum Group Men and Women Sweats • Bird Singers • Bear Dancers Lunch and Dinner will be provided

Fraditional Gathering will be held at the Pala Rev Youth Camp 5 miles east of 1-15 Pala, California 92059

COMMUNITY NOTICE

Attention San Pasqual Resident, the Environmental Department in collaboration with RCAC will be mapping and inspecting all septic systems on the reservation as part of a Community Wide Septic System Management Plan.

The first phase requires collecting information on existing septic systems this includes;

- locating and mapping
- general description of the system
- capacity
- lines locations footage

Mapping will take place prior to the inspection starting Monday April 20th, 2015 and will be ongoing throughout the next few nonths. No appointment required. If you wish to schedule for mapping due to pets or systems located in a gated area please call Melissa Morales at 760-651-5143.

Appointments are required for inspections, to schedule please call Melissa Morales at 760-651-5143, All remaining appointment times will be assigned.

Maintaining septic systems on tribal land is a priority. Together we can take to steps to ensure that our families and neighbors, water resources, natural habitats, and personal property are protected from the dangers of septic system failure. For questions or concerns please feel free to call John Flores at 760-651-5141 for more information.

rabbit brush rabbit 'ephar. cottontail rabbit hellyaaw. jackrabbit kunyaaw. sage rabbit 'ephar.

Next | ssue look for Earth Day Activities for Kids

Don't forget to stop by the Water

Department to pick up your **free** Water Saving High Efficiency shower heads and faucet aerator pack.

For questions call John Flores at 760-749-3200 Ext. 405

Shower Heads supplied by part of Hor Energy and Water Savin



A Sempra Energy utility'

San Pasqual Environmental Newsletter is going Green. To add your self to the e-newsletter mailing list, please send your name and email address attached with the message going green to spenvironmental@sanpasqualtribe.org

You may also check out past newsletters on the San Pasqual website by going to www.sanpasqualbandofmissionindians.org





Questions and Comments

Thank you

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