

# Renewable Solar Energy at Rowdy Creek Fish Hatchery

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## About the Tolowa Dee-ni'

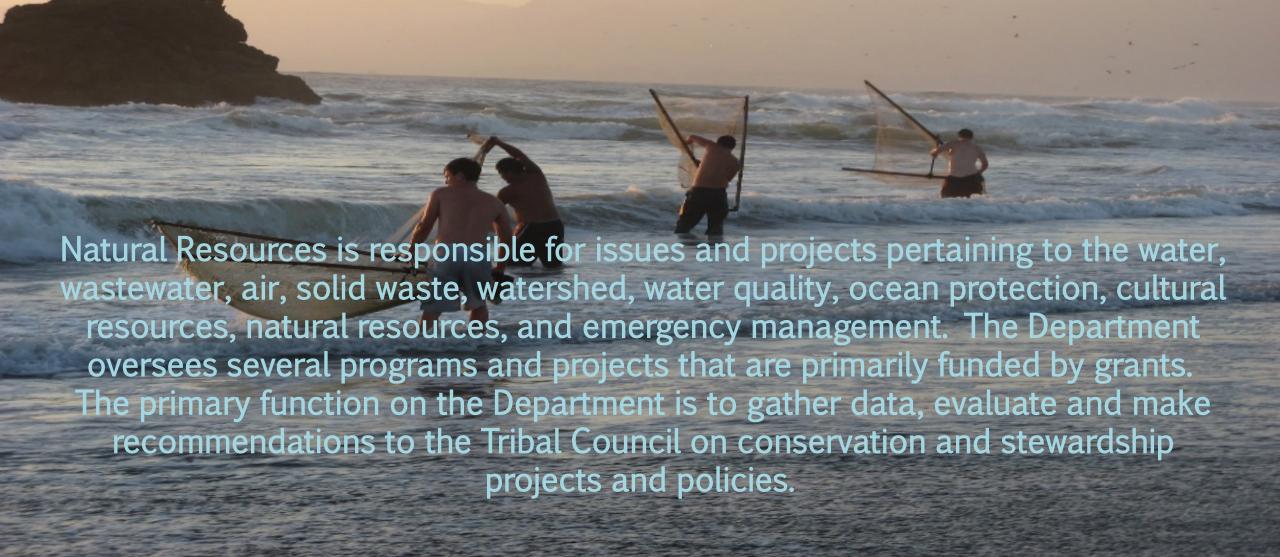
- 10,000; 1853 Yan'-daa-k'vt;1900 450
- 1862 17,000; 1868 abandoned; 1906 (Landless California Indian Act)– 160; 1960 termination; 1983 Tillie Hardwick; today 900+
- Federally recognized jurisdiction and service area 9,608; Humboldt, Del Norte, Coos, Curry, and Josephine
- Now the 10th largest Tribal Nation within BIA Pacific Region (California) 1,720
- The endurance of the Tolowa Dee-ni' despite loss of land, forced assimilation, two
  decades of dissolution, and historical trauma is due to deep reverence and
  connection to their ancestral lands
- Mission to exert and protect the inherent sovereignty endowed upon the Tolowa Dee-ni' Nation to promote our Tribal identity, and the well-being of our people, community and environment by building a strong foundation managing resources and perpetuating our cultural lifeways and legacy

Waa-saa-ghitlh-'a~ Wee-ni Naa-ch'aa-ghitlh-ni (Our Heritage is Why We Are Strong)











## Project Overview:



Rowdy Creek Fish Hatchery rears and releases Chinook and steelhead supporting fishing opportunities in the Smith River





Supplies Salmon in the Classroom and tours to the local schools



The Rowdy Creek Fish
Hatchery owned by Tolowa
Dee-ni' Nation has an average
electric operating expense of
~\$36,000 annually



Reduction in operational costs needed Reduction of carbon emissions and nonwith infrastructure updates renewable energy use by the Tribe

















113.88KW Photovoltaic system includes:

· 312 x 365 watt solar panels

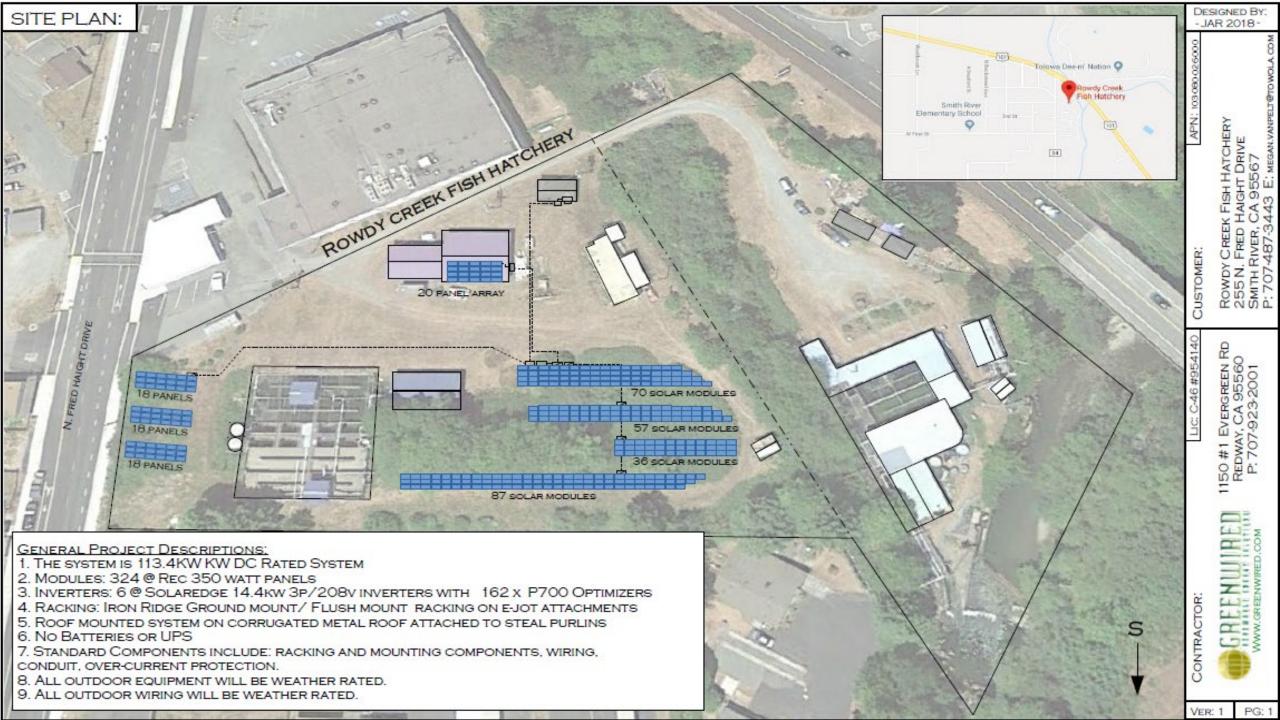
Installation of 28 panel roof mounted system

Installation of 284 panels on 6 different ground mounted solar arrays using ground mount racking system and trenching between solar arrays.

Installation of electric Balance-of-System from arrays to PV inverters

Removal of trees and vegetation in selected areas that will effect solar production.

Installation of landscaping material to impede vegetation growth beneath the arrays post construction and installation of landscaping materials to mitigate potential run off into waterways as a result of construction.



# Progress to Date

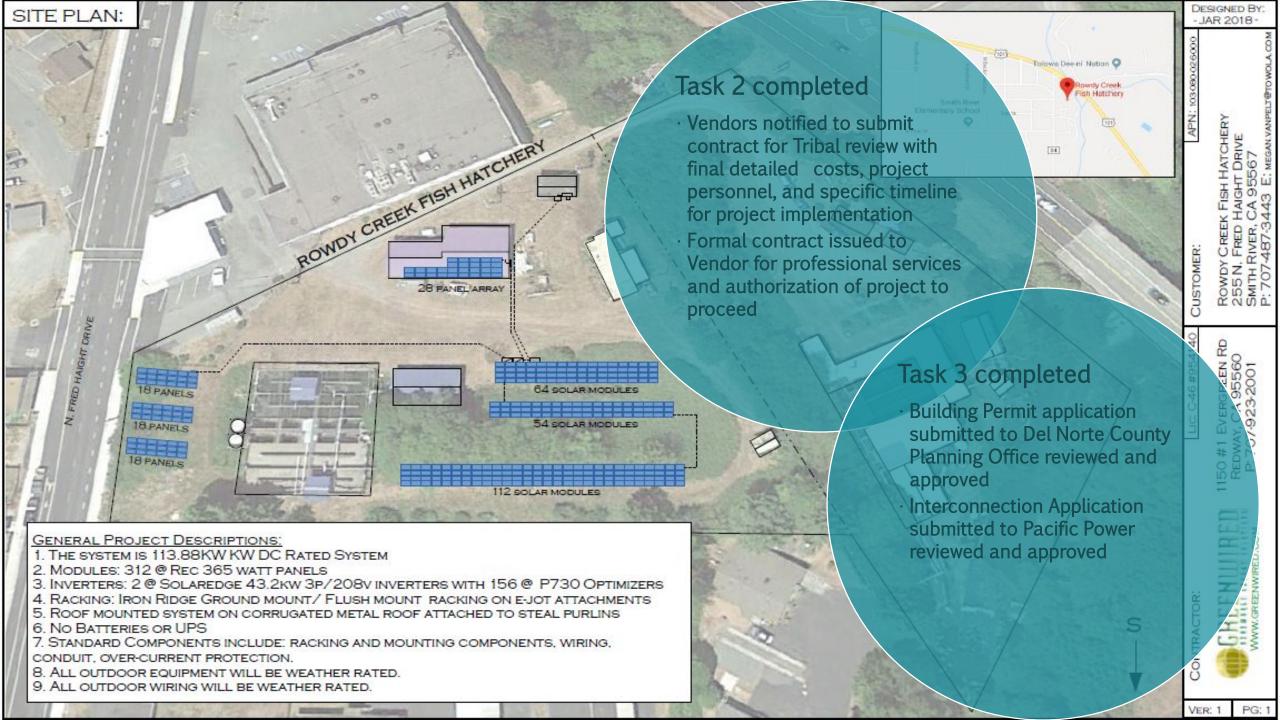
#### Task 1 completed

Completed pre-award negotiation process with DOE

- Biological Assessment Completed
- Elevation Certificate Submitted
- Contractor getting under contract
- Tribal administrative and fiscal responsibilities assigned
- Kickoff meeting convened
- <sup>o</sup>Tribal Council informed on project progress







# Task 4 completed

Rowdy Creek Fish Hatchery project site ready for project implementation

- Heavy equipment brought in for removal of blackberry bushes, trees, and grading
- Debris removed from roof of building
- Trenches prepared to accommodate solar arrays







Task 5 Final PV
System
Commissioning,
Inspection, and
Launch

- Del Norte County final inspection and approval
- Pacific Power
   Interconnection process
- Utility interconnection process; system launch approval
- NEW Solar Photovoltaic Renewable Energy System launched
- Monitor system for 12 months



#### Tolowa Dee-ni' Nation

- GrantAdministrators
- Prepared the landscape for panel installation along with guidance from Greenwired
- Will assist in maintaining the system

### **Project Participants**

#### Rowdy Creek Fish Hatchery

- Provided site knowledge to Greenwired
- Will assist in maintaining the system

# Greenwired Renewable Energy Solutions

- Designed and constructed the system
- Assisted with getting the required permits
- Obtaining interconnection agreement with Pacific Power
- Assisted with any additional needs required to construct and operate the PV system

## SPECIAL THANKS



## Office of Indian Energy







