

Nez Perce Solar and Energy Initiative



OUR MISSION

Climate Change and Energy developments

05

HISTORY

Purpose and Decisions

ABOUT THE PROJECT

RevoluSUN and Pre-construction requirements

04

PROJECT STAGES

Phase I Phase II Department of Energy Development (Future)

PROJECT GOALS and OUTCOME

Resilience through Energy Independence Energy cost reduction Provide renewable energy

06

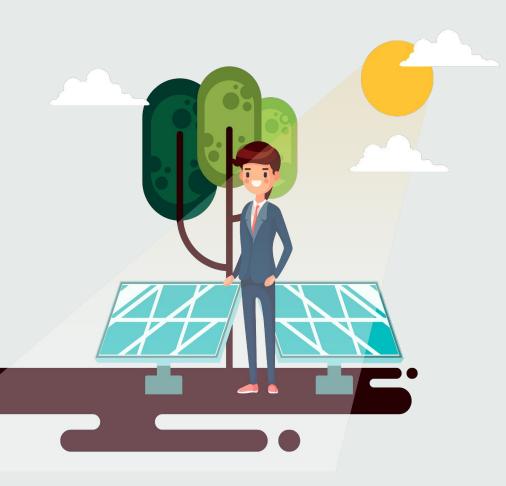
INDUSTRY

Women of Solar Workforce Development

OUR MISSION

Climate Change and Energy Subcommittee formulation Spring 2019

Serves to address climate change and natural resource issues, promote eco-justice, mitigation strategies, energy consumption, energy developments, environmental health, workforce development, and all efforts to take the Tribe to being greener, utilizing sustainable methodology and having sustainable solutions for and on behalf of the Nez Perce Tribe.



HISTORY

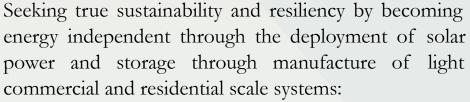
Council decision to invest into Renewable Energy and Workforce Development ...

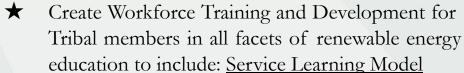
★ Resolution passed out of Climate Change and Energy Subcommittee to full (NPTEC)Nez Perce Tribe Executive Committee ratifying meeting.

★ Beginning of our Solar Journey to Energy Independence.



Purpose





- o design
- engineering
- o installations of solar panels and energy storage
- ★ Promote Renewable Energy
 - Partnership and Collaboration effort to offset the usage of hydropower





ABOUT THE PROJECT STEPS TAKEN

NPT Energy Initiative (Passed and approved Solar Resolution to enter into a Power Purchase Agreement with RevoluSUN LLC, Cleaner, Smarter Energy to develop Solar Energy Systems)

- 1. Mini Micro-grid creation
- 2. Budget based on design and cost (Matches Purpose)
- 3. Identify funding source, go over utility billing
- 4. Begin to Pre-construction, requirements and start date

Mini Micro-grid, Solar

System Creation

Three sites selected for initial deployment of photovoltaic solar (PV) arrays have easily accessible rooftops allowing for rapid solar arrays and totally 307kW and 778 panels of installed PV

★ Sites

- Administration Building and
- Community Center
- Waste-Water Treatment Plant
- o Boys and Girls Club Building

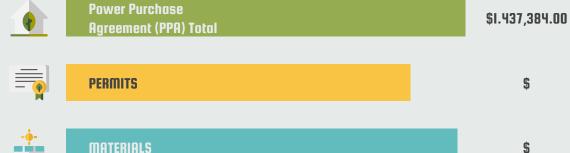


BUDGET



Funding Sources

- Cares funding was utilized for this project
- \star Grants are available through state, federal, and organizations like grid alternatives and other
- Investors and loan options \star



EMPLOYEES

\$267,459.00

MAIN REQUIREMENTS



TERO Compliance and Pre-construction meeting, Tribal recruitment

REQUIREMENT I



Revolusun req, utility agreements, ordering, final assessments

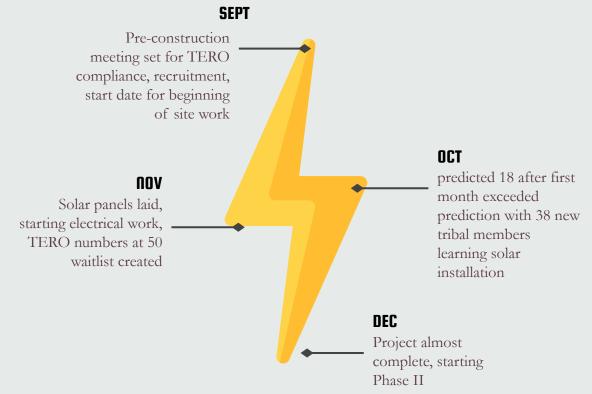
REQUIREMENT 2



sub-contract for electrical work

REQUIREMENT 3

TIMELINE



PROJECT STAGES

Future Development

Develop (Nez Perce Eenergy) Dept of Energy to maintain future projects, continue workforce, training and development

Phase 2

Develop Net Zero Comprehensive document to help the tribe with mitigation strategies and action steps



Phase I

First initial project (microgrid) gain support and inspire for future projects (complete)

PROJECT GOALS and OUTCOME

Imtribune.com



Tribe steps into solar age

Nez Perce Tribe flips switch on 770 solar panels, the first step in its effort to fight climate change, move toward energy independence

By Eric Barker Of the Tribune 7 hrs ago





Casey Mitchell, the vice chairman of the Nez Perce Tribal Executive Committee and the chairman of the climate change and energy subcommittee, officially flips the switch to turn on the solar panels atop the Pi-Nee-Waus Community Center during a ceremony Wednesday afternoon in Lapwai.

Pete Caster/Tribune

2020 energy cost



Admin/PNW \$5,020.63

WWTP \$4,185

BGC \$1,550



2021 Reduced energy cost

Adm/PNW

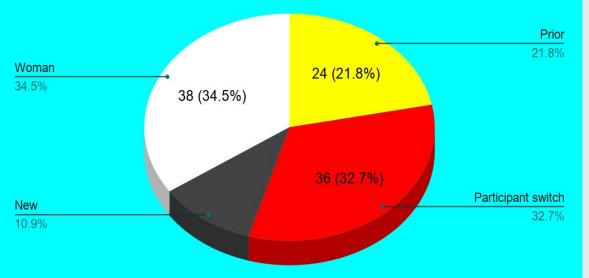
WWTP

BGC

Continue collection of data to get a true accounting of reduction and storage amounts

Employment

Tribal Rights Employment Office (TERO) Totals



- 1. How many were new participants? 35, only one had solar experience
- 2. How many were women? 8
- 3. How many are on the TERO waitlist? 16

Still collecting data from program...

Women of Solar



Public Law 102-477 and Certification

INDIAN EMPLOYMENT, TRAINING, AND RELATED SERVICES DEMONSTRATION ACT

What are some advantages a Tribe obtains by implementing a 477 program? Tribes participating in Public Law 102-477 have reported several advantages, including:

★ Improved client services:

Increasing the number of clients they serve, and improved outcomes for clients.

★ Better utilization of program staff:

Counseling staff can serve clients based on client needs, not based on where the money for their salaries originates. Line staff can focus on providing services to all clients who need them.

How our 477 Program helped our Solar Installers and increased participant numbers to our program.

★ Education, Employment, Training and Supportive Services activities are used to reduce barriers and enable eligible participants to work towards achieving self sufficiency. It also supports job creation and provides opportunities

★ 26 new participants

Solar Business and Technical Sales Certificate - SEI

Total Tuition (Excludes Exam Fees): \$4,854.00

CLASS:	DURATION:	TUITION:
OSHA 10-HR: GENERAL CONSTRUCTION		
OSHA EDUCATION CENTER*	10 HRS	\$79.00
PVOL101: SOLAR TRAINING -SOLAR ELECTRIC I	DESIGN	
AND INSTALLATION (GRID-DIRECT) - C	ONLINE 6 WKS	\$845.00
PVOL202: SOLAR TRAINING - ADVANCED PV SY	STEM	
DESIGN AND THE NEC (GRID-DIRECT) -	- ONLINE 6 WKS	\$845.00
PV201L: SOLAR TRAINING - SOLAR ELECTRIC LA	B WEEK	
(GRID-DIRECT)	5 DAYS	\$1,595.00
PVOL206: SOLAR TRAINING - SOLAR BUSINESS	AND	
TECHNICAL SALES - ONLINE	6 WKS/60 HRS	\$845.00
PVOL203: SOLAR TRAINING - PV SYSTEM		
FUNDAMENTALS (BATTERY-BASED) —	ONLINE 6 WKS/40 HRS	\$645.00
180722		2022
EXAM:		FEES:
NABCEP* PV TECHNICAL SALES (PVTS): REQUIR	RES SALES PROPOSALS & OSHA 10.	
-APPLICATION		\$125.00
-EXAM		\$375.00
-DOCUMENT PLACEMENT		\$25.00

Solar Training & Certification

Course Progress

OSHA 10 and RE 100 are completed for all current indigenous solar employees. On the job training is continuing for installation, sales, service, and maintenance.

- ★ We are creating a training program for National Board of Certified Energy Practitioner (NABCEP) Solar Certification for continuing education. Working with Lewis Clark State College Workforce Training and Development and creating a specialized curriculum, career pathway.
- Also working with the Bonneville Environmental Foundation for K-12 renewables education that will also utilize the career pathway into solar and energy coaching curriculum.

Green Economy



70%

New Wind/Solar to make up 70 % US generating capacity in 2021.

Connecting of projects and agriculture ie...wine, hemp, infrastructure

53II Dam removal or breaching goal





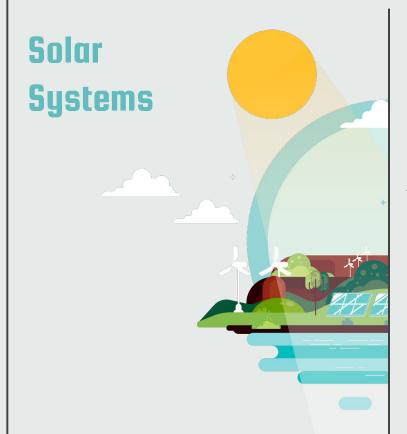




50%Less fuel consumption transition to electrification

Dive Brief

- ★ Battery storage capacity is set to quadruple over the next year, according to the U.S. Energy Information Administration (EIA) expected to add 4.3 GW
- ★ ²/₃ of new Solar projects are now built in tandem with energy storage like ours
- ★ At the current rate wind, solar and storage could overtake conventional technology as the leading source of generation by the early 2030's according to Wood Mackenzie principle analyst Robert Whaley



What happens when Partnership and Collaboration come together.....

Solar System Success

Our Solar Army created the Foundation:

- ➤ Service Learning (Utilized)
- > Tribal Resilience (Created)
- ➤ Dam removal or breaching (Promoted)
- ➤ Salmon Recovery (Promoted)
- > Eco-tourism (Promoted)
- ➤ Green Economy (Promoted)





A Mega finish...

WHAT WE ARE WORKING ON



- ★ Enterprise Casino, Golf Course
- ★ Fisheries Cherrylane, Hatchery, Joseph, OR offices

STRAWBALE HOUSING PROJECT

Community Rebuilds Partnership STEM education and building workforce training and development



REDUCED CO2 EMISSIONS

The 2016 dam removal or breaching number from BPA is 5311 MW of solar and constitutes to 2.14 Million Solar Panels installed.

DOING OUR PART

- ★ Net Zero Energy Efficiency plans currently being developed
- ★ Nez Perce Energy Dept creation (sustain future growth)
- ★ Build partnerships and Expand

CREDITS

Thank you to the ones who were apart of this project.

Nez Perce Tribe

Nez Perce Executive Committee

NPT Cares Committee

RevoluSUN LLC

Mezia Creative Media

Stefanie Krantz, Climate Change

Coordinator

Darren Williams, OLC

McCoy Oatman, Former NPTEC

Rich Ramsey, Maintenance

Jesse Leighton, Interim Executive

Director

Dr. Dave Burica and Ingrid Burica

Solar Indigenous Installers

Basil George

Dayne Goodheart

Naomi Holt Scott Miller

Robin Black Eagle

Michelle Penney Hali Bizbee

Kim Williams

Koyama Young Nickles Two Moons

Vernon Holt

Alesandro Domebo

Pox Young

Win Laprairie Louis Reuben

Maynard Wilson

Solar Indigenous Installers

Davis Bear Henry Martin

Jesse Elwell

Cameron Shawl Nathan Moose

Allen Pinkham

Jerri Johnson

Michael Fox Jeremiah Bursch

Juan Contreras

Isaac Lawrence Leland Allen

Davis Eneas

Robert Mitchell Reuben Padilla

Titus Oatman Esai Moses

Jalon Greene Jordan Wheeler



Chantel L. Greene

Planner | Executive Direction Nez Perce Tribe

2087908491

cgreene@nezperce.org

PO Box 764, Lapwai, ID, 83540, Uni...



THANK YOU

For more information contact

Nez Perce Tribe
Executive Direction Dept
cgreene@nezperce.org
(208) 790-8491
nezperce.org
Follow the project updates





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RESOURCES

- http://www.indianaffairs.gov/WhoWeAre/BIA/OIS/DWD/index.htm
- Guidance Public Law 102-477 Financial Reporting Functional Cost Categories
- utilitydive.com
- https://thebossmagazine.com/women-in-energy/
- local8news.com
- kivitv.com