



COSSI

CHILDREN OF THE SUN SOLAR INITIATIVE

Presented by
Spokane Indian Housing Authority
(SIHA)





Children of the Sun

(Spokane Tribe of Indians)

- Spokane Tribe is a Washington interior Salish, river plateau Tribe
- sp'q'n'i? is the Salish word for Spokane
- The Spokane Tribe was made up of four bands that lived up and down the Spokane River all the way up to the Columbia River. The fourth being recognized as the Chewelah band.
- The Spokane Tribe is the only tribe known to have the signature Happy Dance song and dance routine.



Children of the Sun

(Spokane Tribe of Indians)

(Peaceful Valley, Spokane, Washington) The Indian
Congress of October 1925



Chief Illum Spokane and the lore of the Children of the sun.

There is no real certainty about how the term “Children of the Sun,” came to be but the historical evidence and English translation is believed to play a part in the term adopted by The Spokane Tribe “Children of the Sun. The word “Spokane” has four different meanings: calendar, seasons, moon and sun.

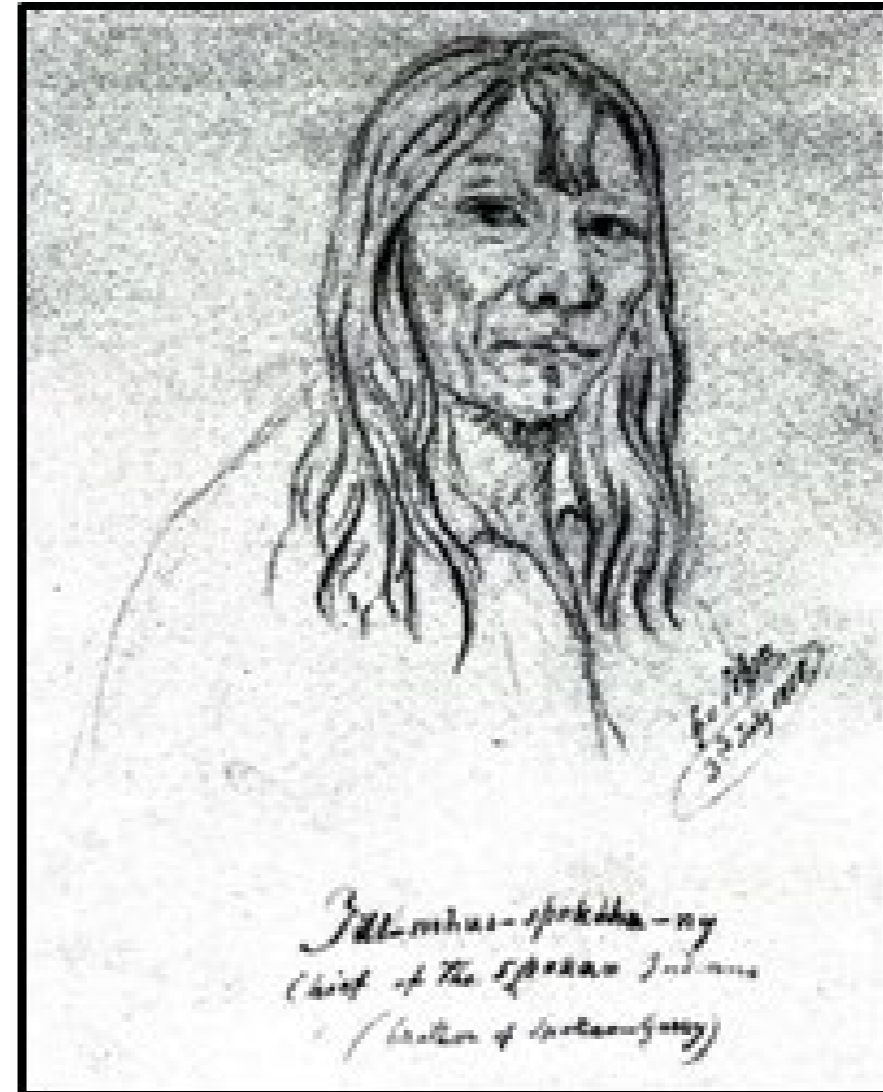
Chief Illum Spokane translates to Chief Sun (Sun Chief) and he would talk about his children, the sons of the sun.

The Spokane tribe also has stories of the two brother, the sun and the moon (Illum and Skulhult).

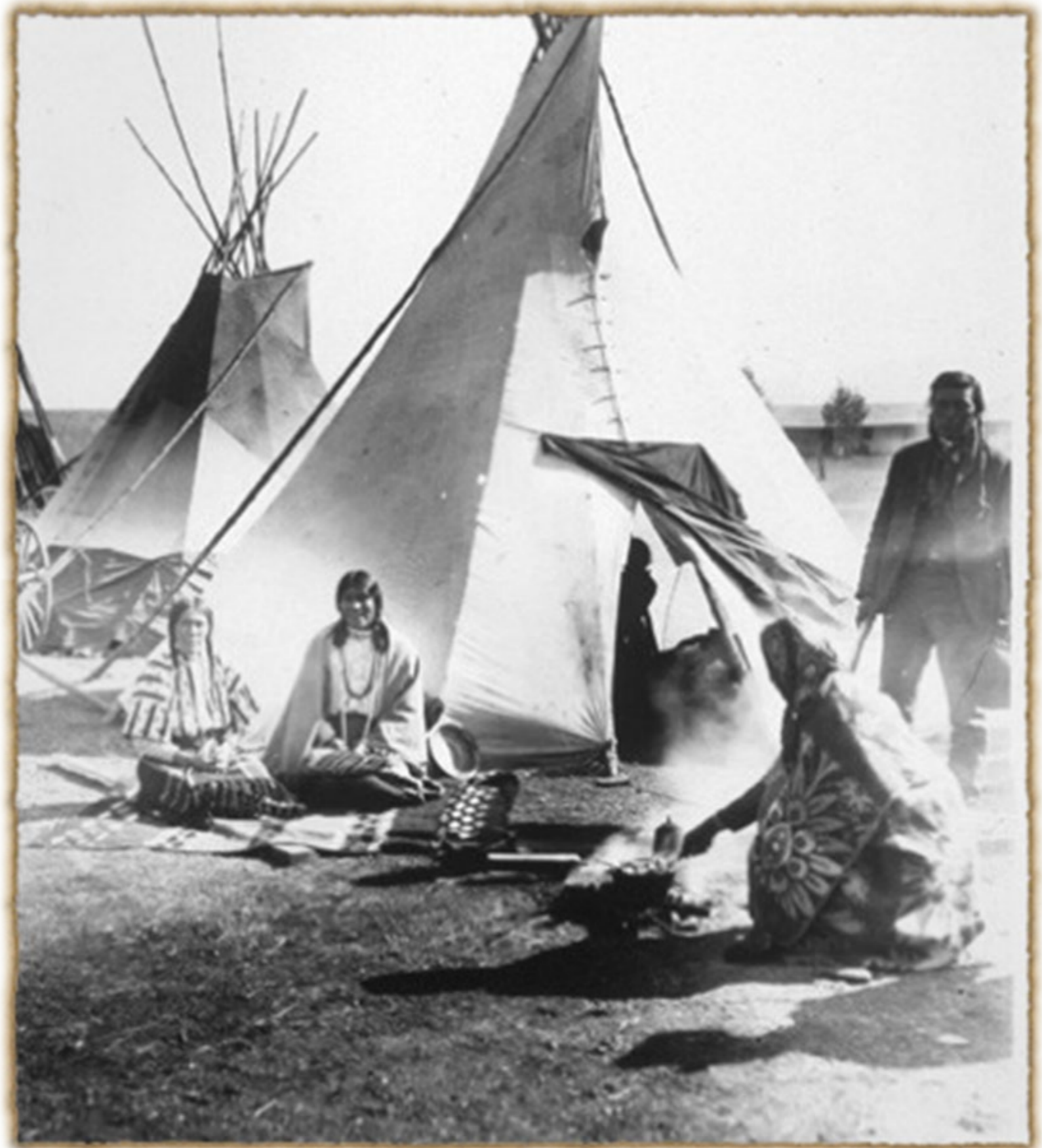
1812 - Ross Cox, a clerk with the Astor Fur Company who came to the Spokane House in 1812 stated that he met with the Chief of the Spokane Tribe. Spokane House is located at the confluence of the Spokane and Little Spokane.

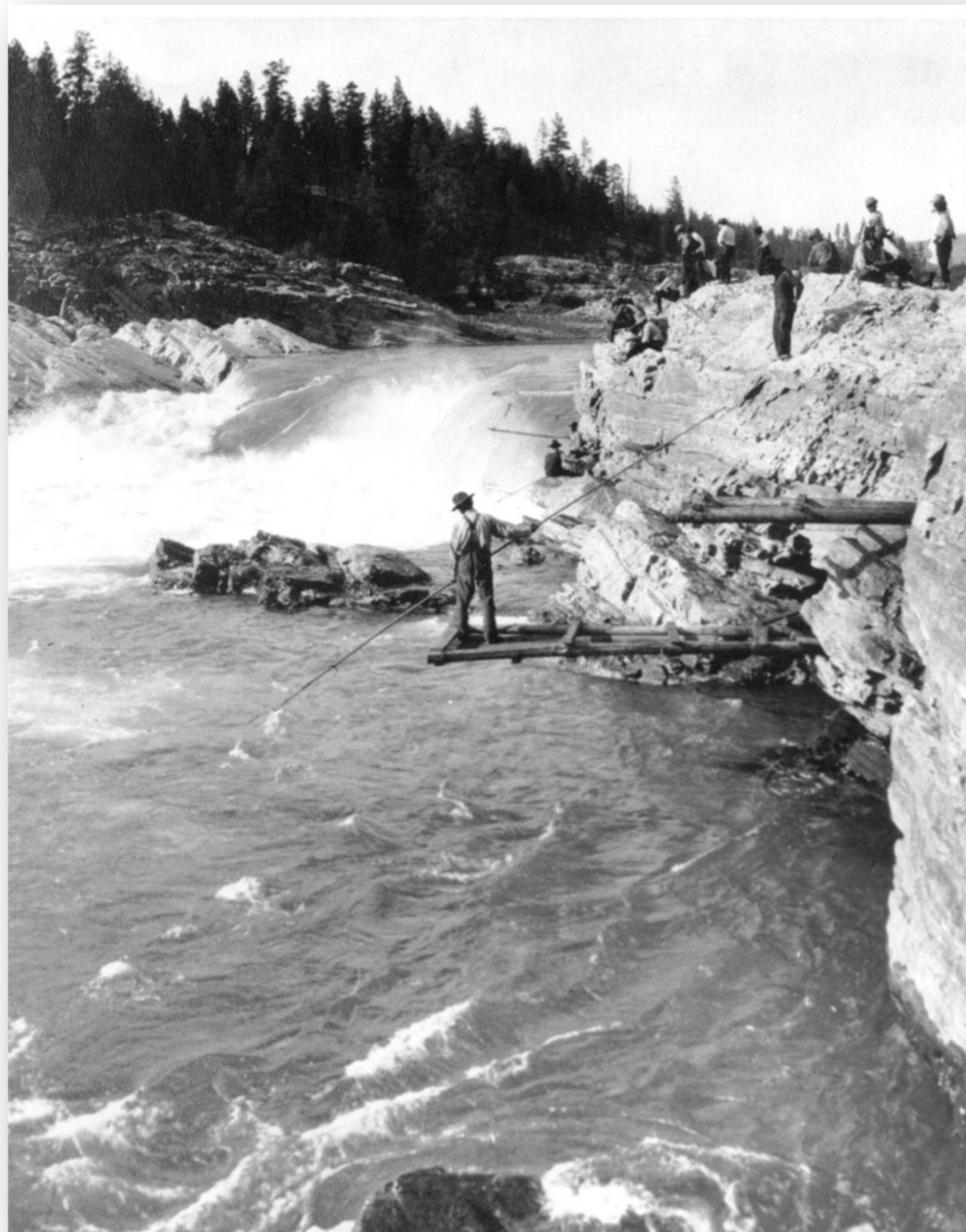
“... Their Chief, Illum-Spokane, or the Son of the Sun...” (Illum-Spokane – Father to Spokane Garry)

1836 - Rev. S. Parker – who visited the country in 1836, says: “The Spokane Indians denominated themselves the ‘Children of the Sun’ which in their language is ‘Spokane’.”



- The Salish Tribe was nomadic and traveled with the seasons to gather and forge up and down the rivers.
- The Salish people lived in tee-pee's during the spring and summer months and settled in tule mat lodges and pit houses in the winter.
- The river was a main source of dietary foods. Roughly 80% of their food came from the rivers fish being their main protein with the salmon being the most sacred.









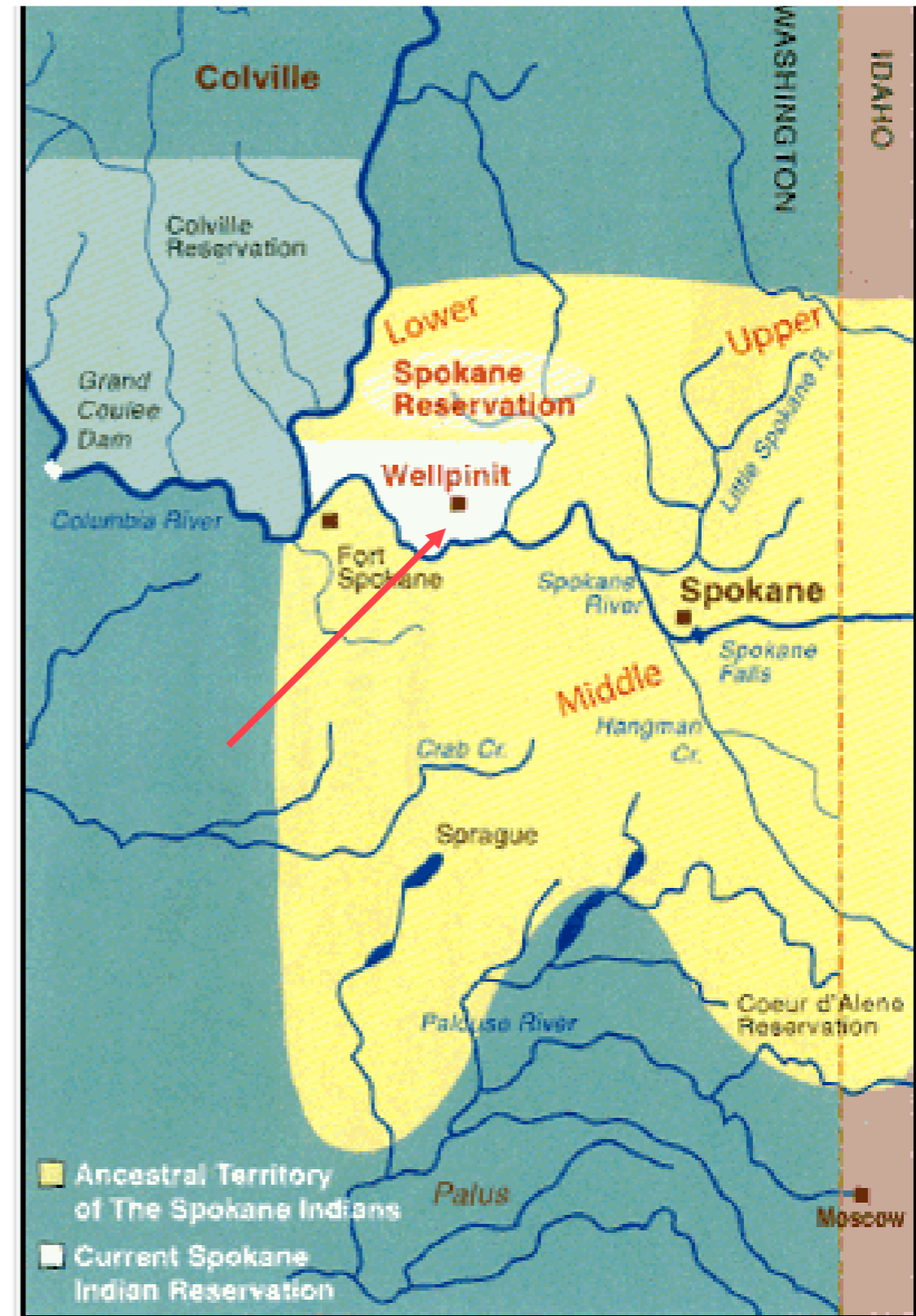


This is a picture taken by William S. Russell for the Bureau of Reclamation in 1941 of the traditional Chiefs of the Colville Indian Reservation. This is some of the final steps to completing the Grand Coulee Dam. These chiefs gathered before this structure to witness the finishing of the dam. The photo is held at the Confederated Tribes of the Colville Reservation History and Archeology Program. It is also held at the WSU and University of Washington photo archives.

Children of the Sun

(Spokane Tribe of Indians)

- Spokane Reservation designated in 1881
- Wellpinit resides 50 miles Northwest of Spokane, Washington in the heart of the Spokane Reservation.
- As of May 2017, tribal membership includes 2879 people (spokanetribe.com)



Children of the Sun

(Spokane Tribe of Indians)

- Today the Spokane Reservation stretches to 159 thousand acres.
- Traditionally the Spokane Tribes economy was made up of trading and bartering with other tribes. Today's economy includes tribal enterprises such as The Spoko gas stations, The new Spokane Tribe and Chewelah Casinos, as well as timber sales.

Upper and Middle Band of the Spokane Tribe. Kettle Falls, Columbia River



Cayuse Mountain Fire

(August 2016)

- In 2016 The Cayuse Mt. Fire left its devastating mark on the Spokane reservation causing much damage to local wildlife and land. In recent history this was the first time a fire of this scale had effected the Spokane tribal government, community and local first responders. The Cayuse wild fire awoke the consciousness of the Spokane tribe and (SIHA) that the severity of wild fires due to environmental change will not stop and we must be prepared for the worst scenario.









Cayuse Mountain Fire

(Continued)

- Closing in within 1 mile of tribal governmental buildings the wildfire cut off electrical power and water to the locals and emergency responders.
- Tribal admin, shut down for a week due to power outage creating loss of revenues and hampering the progress of internal affairs.
- SIHA shut down for three days.
- 18,000 Acres lost to the fire impacted the tribe's timber sales.
- 14 homes lost to the wild fire. Due to evacuation notices no lives were lost.



The New Day of Readiness

(COSSI – the response – born from fire)

- Due to wild fires in past decade like the Cayuse fire we must acknowledge the inherent issues and have a plan of action.
 - **Emergency plan and readiness**, we must first have an emergency plan in place to help defend against wild fires and disasters so that we can recover expeditiously from damages that can occur. This will help keep tribal operations from being significantly disrupted during a time of disaster.
 - **Power and water backups**, this is important for first responders and emergency personnel to have access to these utilities in an emergency situation. This support can help tribal, county and state workers to fight fires, support supply and relief aid while still operating.
 - **Environmental impact**, its important in todays society to be mindful of the consistent threats we face each year due to environmental change. SIHA and Spokane tribe needs to have a pledge to the environment and commit to low cost green energy.
 - **Resilience**, educating the community on these topics helps prepares us for future threats of wildfires as well showing us how we can change our impact on the environment.



“We must be conscious of climate change and act to have a plan in place for emergency readiness while creating clean energy. Part of that solution is the beginning phase of the solar project known as The Children of The Sun Solar Initiative (COSSI), this is our commitment to the Earth and our tribe”.

Children of the Sun Solar Initiative

2017-2018

What is COSSI?

"Children of the Sun Solar Initiative" The Project

- **COSSI is a green energy plan that allows SIHA to install solar panels on essential tribal buildings that need to operate during emergency time.**
- **COSSI will lead into a second phase project of installing solar panels for Tribal home's to reduce energy cost for families and tenants making energy more affordable.**
- **Essentially, COSSI is a energy plan to help prevent issues caused by environmental change that threaten the social, economic and environmental well-being of the Tribe, its people and land.**

Climate Change is Real

International academies: Joint statement

"Climate change is real. There will always be uncertainty in understanding a system as complex as the world's climate. However there is now strong evidence that significant global warming is occurring. The evidence comes from direct measurements of rising surface air temperatures and subsurface ocean temperatures and from phenomena such as increases in average global sea levels, retreating glaciers, and changes to many physical and biological systems. It is likely that most of the warming in recent decades can be attributed to human activities (IPCC 2001)." (2005, 11 international science academies)¹⁰

<https://climate.nasa.gov/scientific-consensus/>

Our Vision

- **Is to reduce tribal energy cost and becoming more focused on energy self reliance, self-sufficiency and energy sovereignty.**
- **Emergency readiness, being prepared will give the Spokane tribe the edge it needs to combat any threatening conditions in the future.**
- **Contributing / pledging to lowering our carbon footprint as a tribal entity by promoting and utilizing green energy.**
- **Addressing the significant energy reliability we have through non-tribal energy sources and moving towards our energy sovereignty and self sufficiency.**

Our Mission Statement


**“The Spokane Tribe adapts to change
and we are still here”
-SIHA**

qe huł snx^wme'ne? hu qec
q^wemmste'm lu? stix^wx^wlm hu
puti que l?e.


Plan of Action

- **Working with tribal and housing partners fund \$ 2.13 Million dollars with grant and tax credit investments.**
 - DOE renewable energy for tribal lands
 - SunVest - Tax Credit Investor
 - Wells Fargo Foundation
 - GRID Alternative Tribal Solar Accelerator Fund
 - NorthWest Office of Native American Programs
- **Purchase and install the PV solar panels on more than 28 essential tribal buildings and homes through out Wellpinit.**
- **Moving us closer to Tribal energy sovereignty.**
- **Affordability and benefits of clean energy.**
- **Model and foundation set for a second phase**

Spokane Tribal Administration Building, Wellpinit WA (245.1 kW)

 HelioScope

Annual Production Report produced by Bjorn Johnson

 Detailed Layout



COSSI Benefits

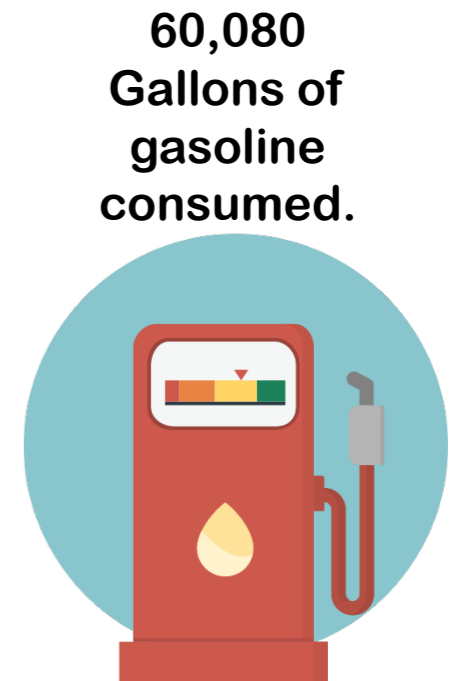
- **The solar photo voltaic panels installed will produce 650 kW (annually)**
- **Providing 23,126,810 kW of electricity over the life of the project.**
- **COSSI Energy will supplement 24% of the energy used in Wellpinit.**
- **Energy cost efficiency saving tribal programs approx. \$ 2.8 million over the 35 year life cycle of the PV system.**
- **One megawatt hour of solar electricity offsets about 3/4 to 1 ton of CO₂.**
- **This will reduce CO₂ emissions by approximately: 9.32575 Tons per year**

COSSI Benefits

(continued)

- **Environmental Reduction in greenhouse gas and other emissions.** The projected reduction of greenhouse gas emissions using projected solar energy, including SO₂, NO_x, and CO₂, is 506 pounds of SO₂, 960 pounds of NO_x and 729,056 pounds of CO₂ per year.
- **SO₂-SO₂** is the component of greatest concern and is used as the indicator for the larger group of gaseous sulfur oxides (SO_x). Emissions that lead to high concentrations of SO₂ generally also lead to the formation of other SO_x. The largest sources of SO₂ emissions are from fossil fuel combustion at power plants and other industrial facilities.
- **NO_x-Nitrogen Dioxide (NO₂)** is one of a group of highly reactive gases known as oxides of nitrogen or nitrogen oxides (NO_x). NO₂ primarily gets in the air from the burning of fuel. NO₂ forms from emissions from cars, trucks and buses, power plants, and off-road equipment.
- **CO₂-Carbon Dioxide (CO₂)** is the primary greenhouse gas emitted through human activities. In 2016, CO₂ accounted for about 81.6% of all U.S. greenhouse gas emissions from human activities.
- **These calculations were made using the EPA Power Profiler at http://oaspub.epa.gov/powpro/ept_pack.charts**
- This is using the energy data in Wellpinit, Wa and Solar PV systems at full capacity.

- **Equivalency of greenhouse gas emissions. The annual greenhouse gas emission reductions referenced are equal to: carbon sequestration by**



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The above amounts were calculated using the GHG Equivalencies Calculator at <http://www.epa.gov/cleanenergy/energyresources/calculator.html>

This is for the full capacity of the Solar PV systems can offset annually in Wellpinit, Wa.

Community Impact

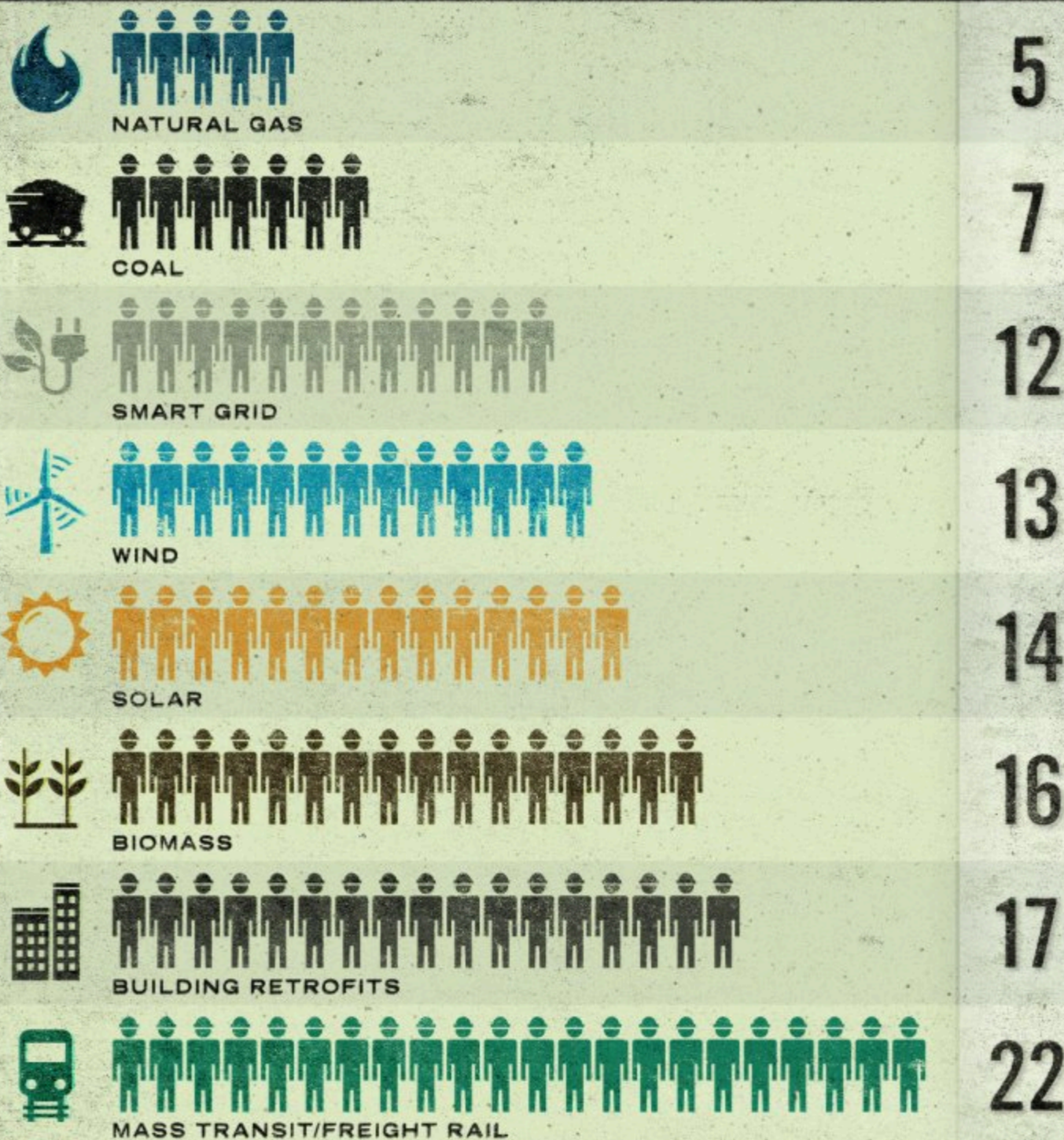
- **Operations and Maintenance (O&M) contracted to Spokane Tribe's Sovereign Power entity .**
- **6-8 Training opportunities for tribal members.**
- **4-6 Hiring positions for tribal members.**
- **Lowering energy bills for tribe.**
- **Changing the status quo on renewable energy.**

THE TRUTH

ABOUT

JOB CREATION

INVEST \$1,000,000 IN THE FOLLOWING INDUSTRIES, YOU GET THIS MANY JOBS:



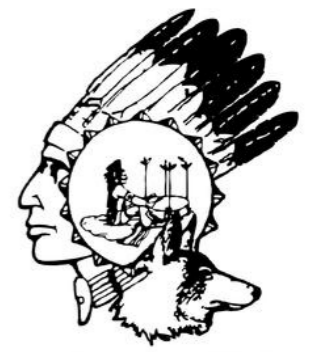
SOURCE: Political Economy Research Institute at the University of Massachusetts





Our Partners

Spokane Tribe Of Indians



Spokane Tribe
of Indians

- In earlier times, the Spokane Tribe lived on, protected, and respected over 3 million acres of land. Tribal members fished the Spokane River, the Columbia River, and utilized the grand Spokane Falls as a gathering place of family and friends. The Spokane's lived along the river in three bands known as the Upper, Middle and Lower Spokane Indians. Traditional campsites were lived in depending upon the Seasons of the year.
- In January 1881, President Rutherford B. Hayes formally declared the Spokane Indian Reservation the new and smaller home of the Spokane Indians. The three bands of Indians were split up and some found new homes, which are now known as the Coeur d'Alene Indian Reservation, the Flathead Indian Reservation, and the Colville Indian Reservation. Today the Spokane Indian Reservation is 157,376 acres in size. As of May 2017, tribal membership includes 2879

(Below) Salmon Chief monument on the Spokane falls, Spokane Washington. <http://spokanehistorical.org/items/show/508>



Department of Energy

DOE

- Indian Energy Policy and Programs Grant: Deployment of Energy Efficiency and Clean Energy on Indians Land-2017

- (Funding Opportunity Announcement Number DE-FOA-0001660)

- Between 2010 and 2016, DOE office of Indian Energy co-funded the deployment of 43 tribal clean energy projects values at more than 70\$ million.
- Match grant awarded to SIHA for COSSI solar project helping move the tribe into a clean energy future.
- DOE's support in clean energy developments, helps improve the quality of life in Indian country.



U.S. DEPARTMENT OF
ENERGY

Investors: Solar Investors

- A National developer who has worked with over 600 customers.
- Ranked among the top 50 solar developers by Solar Power World Magazine.
- <http://sunvest.com/>



GRANT: Wells Fargo Foundation

- “\$5 million in charitable giving over three years to support solar projects in tribal communities.”
- “\$5 million for solar panels is part of a larger, \$50 million commitment from Wells Fargo over five years to address economic, social and environmental needs in American Indian and Alaska Native communities.”
- ““Our goal was to find projects that were shovel-ready that we could get across the finish line,” said Mary Wenzel”
- (<http://www.spokesman.com/stories/2018/aug/28/spokane-tribe-launches-children-of-the-sun-solar-i/>)



Consultant: Godfrey & Kahn

- A High-level service and creative legal solutions.
- Strategic legal advice with smart, practical solutions to real world problems.
- An Award winning team.

<http://www.gklaw.com/GodfreyKahn.htm>

The logo for Godfrey & Kahn S.C. is displayed within a thin, hand-drawn brown border. It features the word "GODFREY" in a large, bold, blue, sans-serif font. Below it, the word "KAHN" is also in a bold, blue, sans-serif font, followed by "S.C." in a smaller, blue, sans-serif font. To the left of "KAHN" is a stylized icon consisting of four squares arranged in a 2x2 grid, with the top-left and bottom-right squares being a light brown color and the top-right and bottom-left squares being a light blue color.

GODFREY
 **KAHN** S.C.

Non-Profit: GRID Alternative Grid Alternative Tribal Solar Accelerator Fund

- GRID Alternatives is a 501(c)(3) certified non-profit organization that brings together community partners, volunteers and job trainees to implement solar power and energy efficiency for low-income families, providing energy cost savings, valuable hands-on experience, and a source of clean, local energy that benefits us all.

<https://gridalternatives.org/>



Sovereign Power

- The mission of Sovereign Power is to identify, leverage, and develop opportunities in the renewable energy sector in a manner that reflects our historic culture of stewardship and sustainability.
- The partnership Sovereign Power has with the Spokane Indian Housing Authority to deploy community scale solar pv moves the Spokane Tribe toward energy independence while reducing the monthly burdens for tribal elders and tribal departments operational costs.
- The partnership creates job opportunities for unemployed and under-employed tribal citizens. The jobs created, matched with skilled labor development, supports Sovereign Power in creating a market driven business that is gearing up to operate on the reservation and throughout the region.
- We look forward to the engagement with external partners in relationships that we have developed with organizations like GRID Alternatives to provide capacity that meets those goals in labor development.



Spokane Indian Housing Authority

- Established 1971
- Operates and manages 220 rental and mutual help units.
- 2 low income housing tax credit projects.
- Staff and workforce of over 37 employees.
- Force account and weatherization crews.
- Three Bands Construction
- Preliminary planning to build the Spokane Urban Indian Village.





Energy Sovereignty



<http://www.spokesman.com/stories/2018/aug/28/spokane-tribe-launches-children-of-the-sun-solar-i/>

THE SPOKESMAN-REVIEW

“We’re delighted to bring this benefit to the reservation,” Horan said. “Losing power during the fire was critical. Avista crews did an excellent job ... but they couldn’t work in the fire hot spots. We were looking at the loss of facilities – all of our administrative capacity could have been wiped out.” – Tim Horan, Executive Director of SIHA (The Spokesman Review)

References & Websites

- ◆ <http://www.spokanetribe.com/>
- ◆ <http://sunvest.com/about/>
- ◆ <http://www.gklaw.com/GodfreyKahn.htm>
- ◆ <https://gridalternatives.org/>
- ◆ <https://www.inlander.com/spokane/nation-building/Content?oid=4660112>
- ◆ <http://www.spokaneiha.com/>
- ◆ <http://www.spokesman.com/stories/2018/aug/28/spokane-tribe-launches-children-of-the-sun-solar-i/>
- ◆ <https://www.energy.gov/indianenergy/office-indian-energy-policy-and-programs>

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