

Spokane Reservation Residential Solar Energy Project



SRRSEP

Elk Medicine, Artist George Flett



• The Spokane Tribe was nomadic and moved to where the natural food could be harvested. Salmon was one of the main staples of the tribe.

The river was a main source of dietary foods. The location of Downtown Spokane was one of the main gathering places of the Tribe and other Tribes visited the location, for several reason.

Social Gatherings.

Trade & Fish

Find a Mate





Grand Coulee Dam is a concrete gravity dam on the Columbia River in the U.S. state of Washington, built to produce hydroelectric power and provide irrigation water. Constructed between 1933 and 1942

Grand Coulee Dam Today



Spokane Reservation Residential Solar Energy Project (SRRSEP)

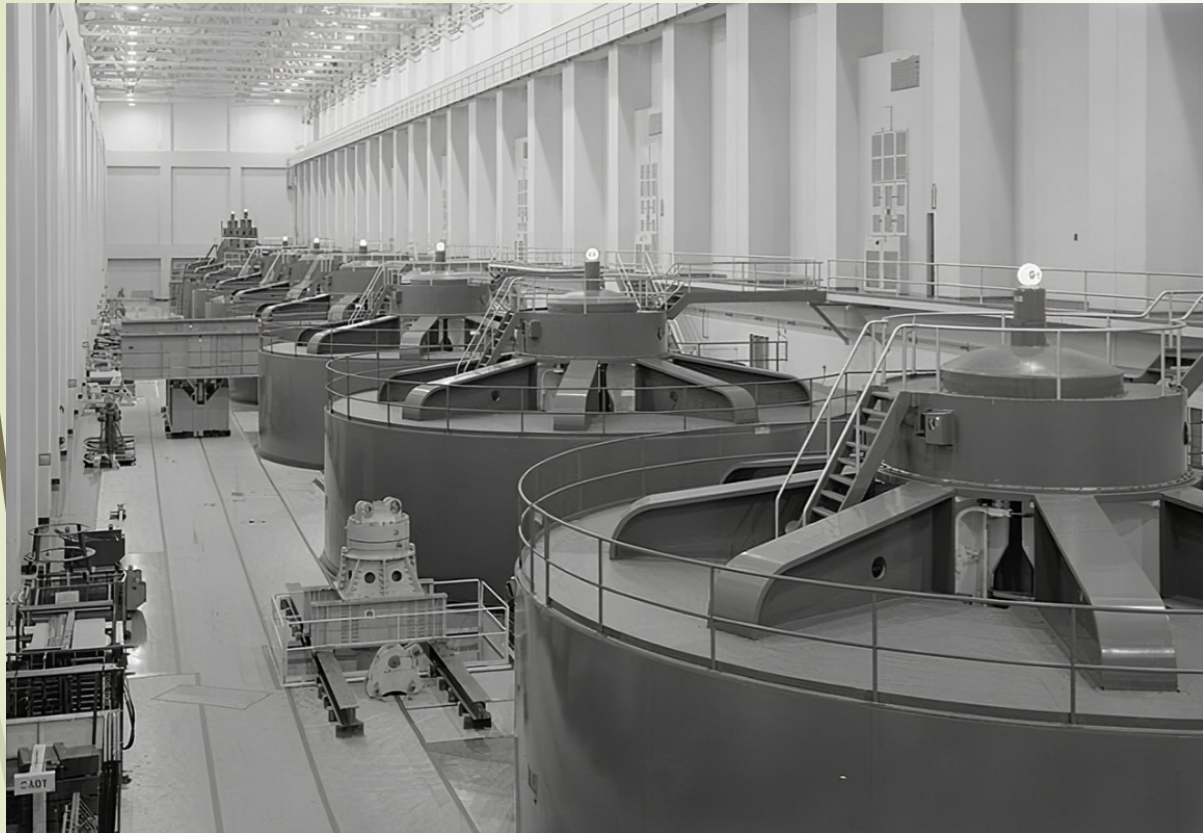
- Project” (Project) includes installing approximately 980 kilowatt (kW) of solar photovoltaic (PV) facilities on the Spokane Reservation (Reservation) that will serve about 140 Tribal member residences and provide an expected annual first year savings of approximately \$114,345.

- The Project buildings are owned, controlled by SIHA. Approximately 100 Tribal members Rental Units will be fitted with approximately 5 kW roof-mount systems and are projected to produce approximately 6,000 kilowatt-hours (kWh) per year. There will be an additional 40 Rental Units fitted with, approximately 9 kW ground-mount systems and are projected to produce approximately 12,150 kWh per year.

- 1- Lower Tribal member energy costs
- 2- Step towards Tribal Energy Independence
- 3- Provide beneficial training and job opportunities for Tribal members



Step towards Tribal Energy Independence



- Spokane Tribe and the Spokane Indian Housing Authority applied for a DOE grant through the Office of Indian Energy and that was the Children Of the Sun Solar Initiative.
- Next the Spokane Indian Housing Authority applied for second DOE grant and that is the SRRSEP.
- The Spokane Indian Housing Authority applied several other related grants, Micro-grid Study and the Research Development and Demonstration under the Clean Energy Fund through the Wash State Dept. of Commerce.

What is COSSI?

"Children of the Sun Solar Initiative"

- **Micro-grid Study, triggered a response from Avista Utilities, who is working with the Spokane Tribe and SIHA on another grant, through Washington State Dept. of Commerce, The Grid Modernization Grant” is a grant for Utility Company's to apply only. Avista partnered with the Spokane Tribe and SIHA because of the Micro-grid Study was put together so well and easy to follow the logic of the study.**
- **COSSI will lead into a second phase project of installing solar panels for SIHA managed home’s to reduce energy cost for low income 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 its land.**

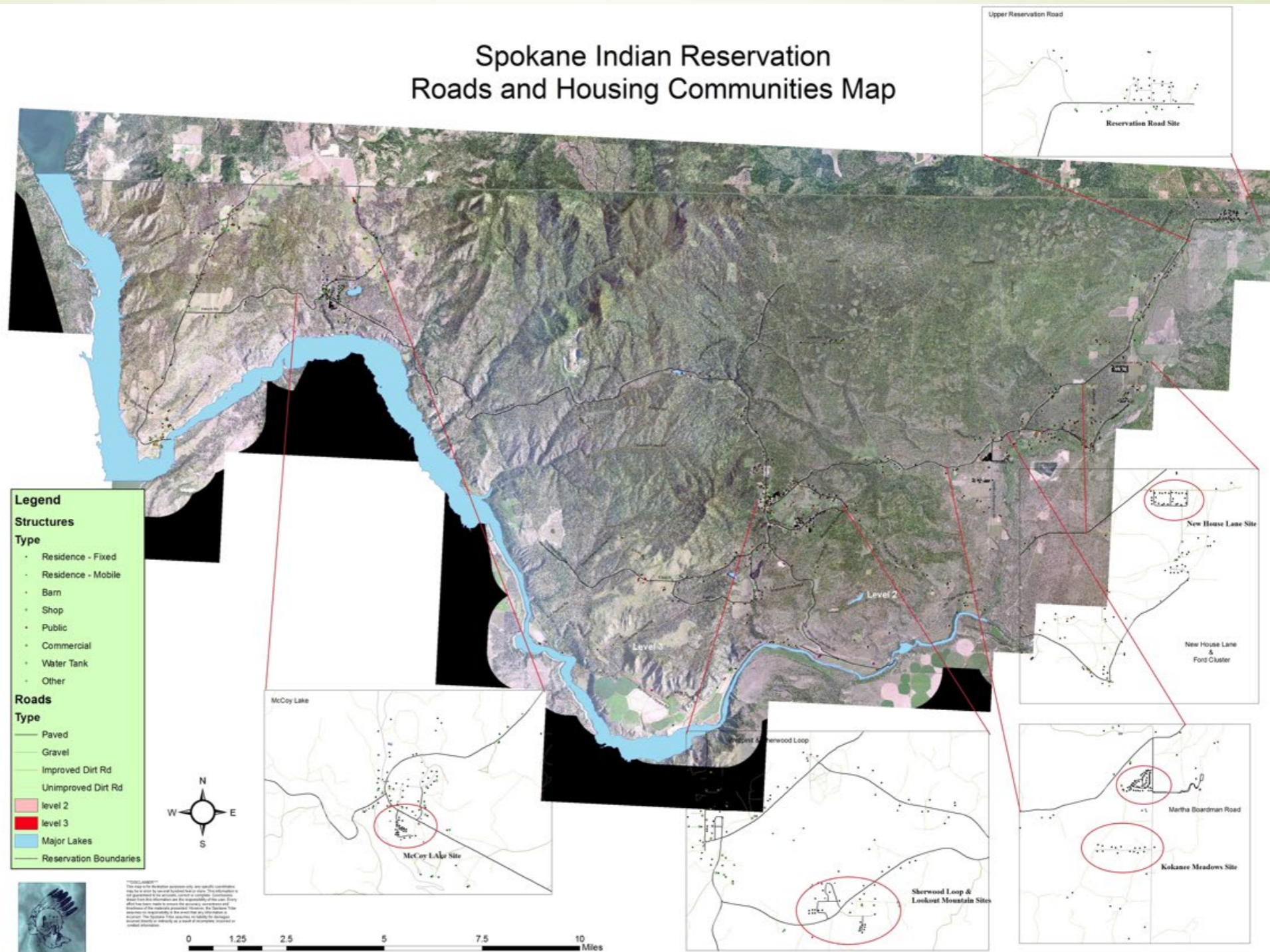
What is SRRSEP?

In its infancy stage

- **Spokane Reservation Residential Solar Energy Project:**
- **Reduce tribal energy costs on a Residential level energy sovereignty by serving approximately 140 Tribal member Residences.**
- **The Spokane Tribe who's Nick Name is "Children of the Sun" will have an edge to combat any threatening disaster conditions in the future.**
- **Contributing to lowering our carbon footprint as a Tribal entity by promoting and utilizing green energy as fully as possible.**
- **Providing 6 to 8 members with construction training and jobs and 4 members with operation and maintenance training.**
- **Addressing the significant energy reliability we have through non-tribal energy sources and moving towards our energy sovereignty and self sufficiency.**

Spokane Reservation Residential Solar Energy Project

Spokane Indian Reservation
Roads and Housing Communities Map



New House Lane Site



Martha Boardman Site



McCoy Lake Sites



Turning up the Heat

- Working with Tribal and housing partners fund \$ \$3.3 Million dollars with grant and tax credit investment funding.
 - DOE renewable energy for tribal lands
 - Tax Credit Investor “Quantyzed”
 - GRID Alternative
- Install the PV solar panels on more than 140 Tribal homes through out the Spokane Reservation.
- Moving closer to Tribal energy sovereignty.
- Affordability and Benefits of clean energy.



Quantyzed Project Development



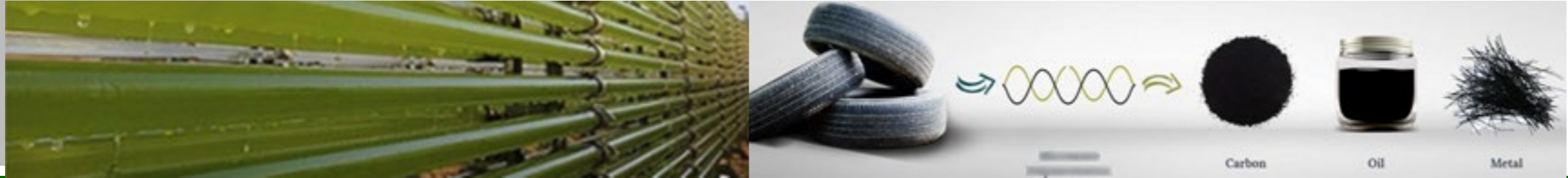
*Quantyzed Project Development:
Renewable Energy as a Force Multiplier
for Commercial, Industrial and Community Projects*

Q4 2021

For More Information, Contact

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*Create Generational Revenue and Jobs
for your Nation, from
Sustainability Facilities and
Renewable Energy Infrastructure*

Q4 2021

For More Information, Contact



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About Xilayne's Generational Revenue Program for American Tribes

Xilayne LLC is an experienced project development firm for Native American tribes, having offices in New York and California. We have projects underway on tribal territories in multiple states.

Our roadmap creates long-term jobs, diversified income, technical training and self-sufficiency on tribe-owned territory.

Our long-term goal is to help transform each tribe's economy by offering economic diversification, well-paying sustainable jobs and technical training opportunity on their land, or by *creating options to support other tribes through co-investment.*

We work each tribe to diversify their Nation's economy via *renewable energy production and manufacturing* while *adding jobs, training, long-term revenue, attractive economic returns, housing and fresh food* based on each tribe's priorities.

Our unique, state-of-the-art technologies in *sustainability* and *renewable energy* help to achieve this. These projects also *empower succeeding generations of the tribe's citizens* to acquire wealth via **high-value technical, entrepreneurial and financial skills.**

We believe in environmental & economic justice and seek to create stable, profitable businesses that *clean up nature* while *creating hope and opportunity for future generations.* **Give the kids, interesting reasons to come home.**

Our unique approach to renewable energy and the circular economy, enable the creation of *24/7/365 operating vertical farms* for growing of *fresh organic vegetables and fruits* on the most arid land with zero emissions and complete self-sufficiency.



We create high-efficiency, net-zero buildings with multiple revenue streams

1 Solar panels and batteries reduce carbon emissions and cut cost of utility power

2 Building-wide broadband captures added revenues

3 High-speed EV charging stations in basement paid by card swipe, powered by rooftop solar panels provide additional revenue

4 Dense Vertical Farm fits into the rooftop space below the solar panels

Vertical farm: *multiple harvests per month, all year, any climate*

The space at the top of this affordable housing **net-zero building** below the rooftop solar panels, accommodates a high-density, low-water usage vertical farm to grow **local, fully organic, high-value produce 24/7/365 (12 multi-veg crops per year)** to supplement the earnings of the building while mitigating heat islands.

With **turnkey operations**, such properties can add **additional revenues from utilities**, card-swipe **EV charging stations**, **property-wide broadband** and **crop sales** aside from **rents**.



Department of Energy

DOE



U.S. DEPARTMENT OF
ENERGY


About the Office of Indian Energy:

The Indian Tribal Energy Development and Self Determination Act of 2005, under the Energy Policy Act of 2005, authorizes the U.S. Department of Energy (DOE) Office of Indian Energy to fund and carry out a variety of programs and projects that:

- **PROMOTE** tribal energy development, efficiency, and use
- **REDUCE** and **STABILIZE** energy costs
- **ENHANCE** tribal energy natural resources
- **STRENGTHEN** economic infrastructure
- **ELECTRIFY** Indian lands and homes.

To address these mission-driven priorities, we work alongside Native American and Alaska Native communities to develop and deploy energy solutions, offering:

\$ Financial assistance  Technical assistance

 Education and capacity building

Spokane Tribe Of Indians



- In earlier times, the Spokane Tribe lived on 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 Season.

- Today the Spokane Indian Reservation is 157,376 acres in size. As of May 2017, tribal membership includes 2879 people; we are strong and growing. We welcome you and thank you for wanting to learn more about the proud Children of the Sun.

(Below) Salmon Chief monument on the Spokane falls, Spokane Washington.

<http://spokanehistorical.org/items/show/508>



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 white rectangular box with a brown border. The word "GODFREY" is written in a large, bold, blue, sans-serif font. Below it, the word "KAHN" is written in the same font, followed by "S.C." in a smaller, blue, sans-serif font. To the left of "KAHN" is a stylized logo consisting of four brown squares arranged in a 2x2 grid, with a white cross-like shape in the center.

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

- GRID Alternatives
- Renewable energy can drive economic growth and environmental benefits in communities most impacted by underemployment, pollution and climate change.
- GRID Alternatives is a national leader in helping economic and environmental justice communities nationwide get clean, affordable renewable energy, transportation, and jobs.



GRID
ALTERNATIVES

<https://gridalternatives.org/>

Spokane Indian Housing Authority

- SIHA Established 1972
- Operates and manages 220 rental and mutual help units.
- 2 low income housing tax credit projects.
- Force account and weatherization crews.
- Preliminary planning to build the Spokane Urban Indian Village.

<http://www.spokaneiha.com/>





FOR MORE INFORMATION ABOUT THIS PROJECT,
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