

# STRATEGIC ENERGY PLANNING, SEDRO WOOLLEY, WA

Client: Upper Skagit Indian Tribe

Ridolfi provided strategic planning and engineering services to the Upper Skagit Indian Tribe in support of the Tribe's long-term energy planning efforts. To support the development of the Tribe's Strategic Energy Plan for New and Existing Lands, Ridolfi completed an energy assessment and a strategic energy plan.

The energy assessment included energy audits for Tribal administrative, health, educational, recreational, cultural, and residential facilities at the Helmick Road Reservation, as well as for gaming, lodging, and service facilities at the Tribe's Skagit Valley Casino Resort at Bow Hill. The energy assessment summarized the Tribe's current energy use, costs, and greenhouse gas emissions, and identified and prioritized energy efficiency opportunities, potential energy savings, and costs for efficiency projects at all facilities. The energy assessment also included a renewable energy resource assessment which identified potential renewable energy resources, including solar, wind, geothermal, hydroelectric, and biomass resources at the Helmick Road and Bow Hill locations. The renewable energy resource assessment provided a screening of potential renewable energy generation alternatives, and evaluated the technical and economic feasibility of selected renewable energy project options.

The strategic energy plan summarized the energy assessment results for all the Tribe's facilities, articulated the Tribe's energy goals and objectives, and included an action plan for moving towards those goals. The action plan provided a schedule for the phased implementation of energy efficiency and renewable energy generation projects, including projected greenhouse gas emission reductions, and estimated timelines for the recovery of capital costs through energy savings.

Implementation of the recommended short-term energy efficiency improvements were projected to reduce the Tribe's energy-related greenhouse gas emissions by more than 200 tons per year, and the project capital costs would be recovered through energy savings in less than four years.

In addition to the energy assessment and strategic energy plan, Ridolfi also developed an Energy Conservation Code for the Tribe.