

COMPREHENSIVE ENGINEERING CAPABILITIES

EES Consulting offers a full range of civil, mechanical, geotechnical, structural and electrical engineering services, for hydropower and other energy projects. EES Consulting staff has extensive expertise in all facets of energy project engineering, including design and analysis, construction, and project management.



SERVICES PROVIDED

- Siting studies
- Structural evaluation and design engineering—concrete, wood, steel, and hydraulic structures
- Dam design — gravity, arch, embankment, and RCC
- Selection and specification of turbines and valves
- Governor system design
- Balance of plant design for hydroelectric projects
- Engineering audits and life assessments
- Start-up testing
- Switchyard/switchgear equipment
- Gate design, analysis, inspection and evaluation
- Coating and corrosion control design
- Generators
- Motors and motor control centers
- Protective relaying
- Power system analysis and design
- Field inspections
- Revenue enhancement and cost reduction strategies
- Identification of rehabilitation requirements
- Recommendations for performance improvements
- Construction and project management
- Computer-Aided Design and Drafting (AutoCAD)
- Geographic Information Systems (GIS)
- Due diligence studies
- Dam safety assessment

PARTIAL LIST OF CURRENT PROJECTS AND CLIENTS

Comprehensive Regulatory and Engineering Services for Relicensing
Box Canyon Hydroelectric Project
Pend Oreille County Public Utility District No. 1, Newport, Washington

Gas Abatement Program Engineering Support
Clark Fork River Hydroelectric Project
Avista Corporation, Spokane, Washington

PARTIAL LIST OF CURRENT PROJECTS AND CLIENTS (cont'd)

Engineering Support for Hydroelectric Relicensing
Blue Lake Hydroelectric Project
City of Sitka, Alaska

Fish Passage Design and Engineering Support
Pelton Round Butte Hydroelectric Project
Portland General Electric, Portland, Oregon

Fish Passage Engineering Support
Clackamas River Hydroelectric Project
Portland General Electric
Portland, Oregon

Comprehensive Regulatory and Engineering Services for Capacity-Related License Amendment
Sullivan Creek Hydroelectric Project
Utility District No. 1 of Pend Oreille County Public
Newport, Washington

Engineering for Pipeline Repair
Calispell Hydroelectric Project
Public Utility District No. 1 of Pend Oreille County
Newport, Washington

Engineering Support for Municipalization of Transmission and Distribution System
Central Valley Association of Governments
Riverside County, California

Engineer of Record
Municipal Light and Power
Anchorage, Alaska

New Dam Geotechnical Review and Feasibility
Finca Secacao
Hidroelectrica Secacao, S.A.
Guatemala City, Guatemala