

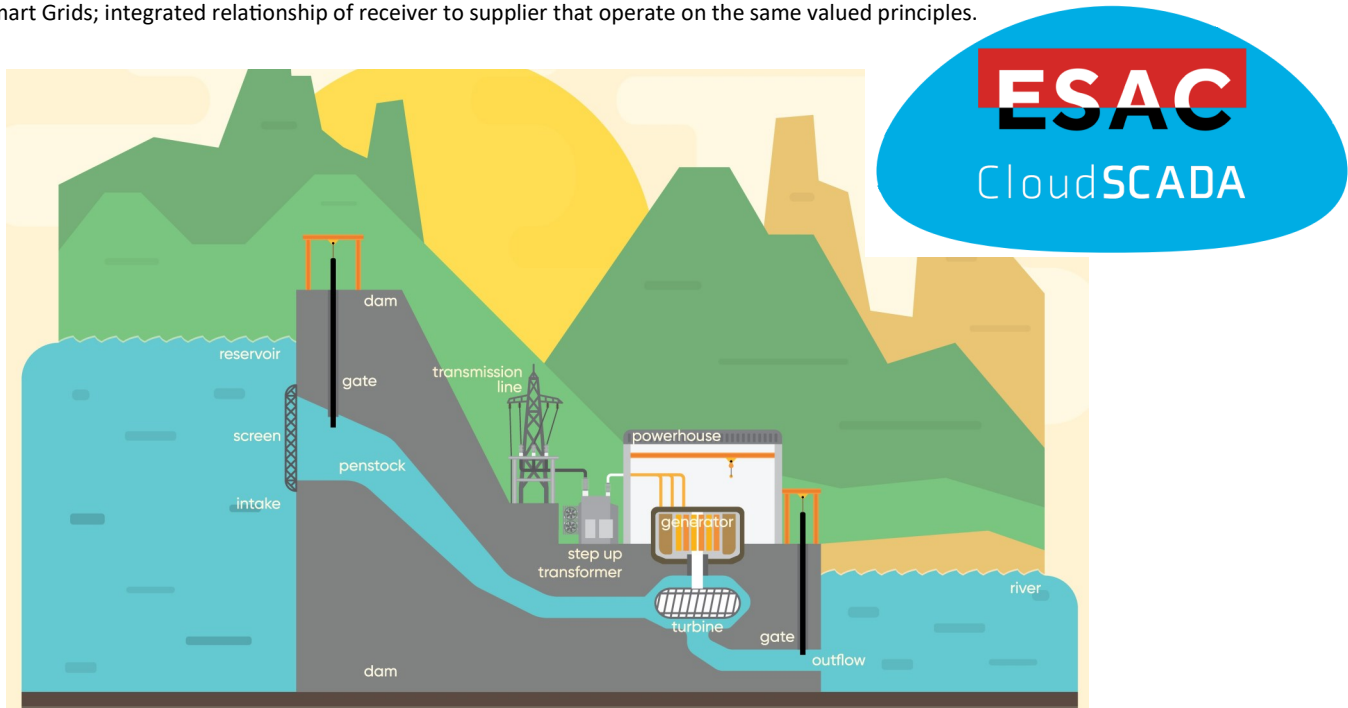
Hydroelectric

Powerhouse modernization with existing or new units, grid and environmental compliancy.

- Establishing equipment requirements with new technology applications improving costs
- Reducing operational resources assignment and maximizing production returns

Generate energy in adherence with maintaining flow/level stipulations documented for regulatory authorities, metering for revenue return and equipment maintenance notification.

Smart Grids; integrated relationship of receiver to supplier that operate on the same valued principles.



Minimize production operations with supervised control, automatic predefined decisions and effective notification that documents conditions for assessment and planning permitting other works.

I. Generation operating modes that maximize capacity available as a result of changing conditions.

- Water Level/Flow varying power output with maintaining connection power quality
- Develop efficiency profiles for head/tail water level from reported operational data
- System criteria control objectives to ensure grid and environmental regulatory compliance

II. Manage equipment maintenance using real-time alarming and reported conditions.

- System monitoring of functions timing, vibration and temperature to determine wear
- Alerted as devices and operations approach defined states for proactive scheduling
- Events of machine and peripherals conditions reported to develop multi-year planning

III. Local and remote systems integration with regulatory authority and staffing mobile interface.

- Protection and condition monitoring systems ensuring assets damage control
- Control systems maintaining repeatable operations within defined equipment applications
- SCADA monitoring of equipment status, alarms and metering with historian reporting

ESAC has 30+ years experience of power systems with generation and grid interfacing as overall project or strategic solutions supplier working with owners to ensure quality deliverables.

Electrical Equipment and Integrated Control Systems – Assessment and Detailed Budgets
Installed Solutions Maximizing Production and Asset Protection
Maintenance and Support Programs Achieving Specified to Improved Performance

All with Versed Technical Staff and CloudSCADA Integrated Solutions

Addressing projects owners and clients electrical with equipment details for software/hardware integration working with your team to establish achievable objectives and planned implementation.