

Presentation

Department of Electrical Engineering

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United States Bureau of Reclamation (Reclamation)

Water Delivery and Hydro Power Generation in the West

From the Colorado to the Columbia River Basins, History, Basics, Water Policy, Dam Safety, Turbines, Generators, Transformers, Environment, and More

Reclamation plays a critical role in managing our nation's water resources and power generation needs. With more than 600 dams/reservoirs and 58 powerplants, Reclamation is the largest wholesale water supplier in the United States and the second largest producer of hydroelectric power. The Technical Service Center (TSC) in Denver employs 500+ engineers, scientists, and support staff to ensure Reclamation can achieve their mission to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

A group of engineers and scientists from the TSC, will be discussing present and future roles in their fields. The lecture on November 6 (Part 1) will focus on the history of the organization, canals, waterways, storage, environmental concerns, geotechnical services, and lab services. November 13 lecture (Part 2) will focus on the mechanical and electrical aspects directly related to the generation of hydroelectric power, applied research, and the future of water and power in America.

This 2-part presentation is designed for engineers from all disciplines, young and experienced, students (future engineers) and researchers, policy makers, economists interested in the broad interrelated field of energy, hydropower system, water resources, navigation to recreation, engineering design and maintenance, dam safety, and recent development in public policy. Focus is on almost every aspect of water resources for river projects across the west from history to year 2019. It is designed for a broader audience interested in energy, sustainability, and renewable energy. The key feature of this presentation is the "Questions and Answers" session.



Time: 4:00pm – 6:30pm (10 minute break)

Wednesday: November 6, Part 1

Wednesday: November 13, Part 2

Berthoud Hall Room No. BE241

Light refreshments will be served.

Contacts:

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