

HYDROPOWER COMPLIANCE

HYDROPOWER 101

DECEMBER 7, 2020 | ONLINE

INTRODUCTION TO FERC HYDROPOWER

DECEMBER 8, 2020 | ONLINE

FERC HYDROPOWER LICENSING

DECEMBER 14, 2020 | ONLINE

FERC HYDROPOWER COMPLIANCE

DECEMBER 15, 2020 | ONLINE

Discounted rates available when attending multiple events

December 7, 2020
Online | Central Time



“Great intro course. Very knowledgeable and easy to listen to/follow in a remote format. Genuinely interested in answering all attendees’ questions.” –

Connecticut Public Utilities
Regulatory Authority

This course is ideal for those new to hydropower looking to accelerate the learning curve of this power technology. The instructor will present a basic overview of hydropower operations, including: how hydropower works, project types and definitions, and benefits and challenges associated with hydropower. Attendees will learn about hydropower development in North America and throughout the world. They will discuss the costs associated with hydropower. Our expert speaker will discuss engineering considerations, including flood control, irrigation, navigation, fish passage, entrainment mortality, in-stream flows, water quality, ramping rate, recreation, and dam safety. The instructor will discuss hydropower's role in developed and developing countries as part of the global energy transition to fight climate change.

LEARNING OUTCOMES

- Examine project types and definitions
- Discuss how hydropower works
- Describe hydropower development in North America and throughout the world
- Examine the regulatory considerations
- Analyze the benefits and challenges of hydropower
- Review engineering considerations associated with hydropower, including flood control, irrigation, navigation, fish passage and entrainment mortality, in-stream flows, water quality, ramping rate, recreation, dam safety
- Discuss hydropower relicensing
- Explain the value of hydropower in a changing electricity market and energy transition
- Discuss the differences between Open-Loop and Closed-Loop Pumped Storage projects as an electric storage solution



EUCI is authorized by IACET to offer 0.7 CEUs for the course

INSTRUCTOR

Tom Russo, Principal, Russo on Energy, LLC

INTRODUCTION TO FERC HYDROPOWER

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Online | Central Time

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*"Tom was great and his slides were
perfect in explaining everything.
He was fantastic!"*

Connecticut Public Utilities
Regulatory Authority



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This course will present a high-level overview of FERC's hydropower program. It is for those who know very little or need a refresher about how FERC licenses and administers non-federal hydropower projects. Attendees will leave with a general understanding of FERC hydropower fundamentals and current issues facing existing and new FERC hydropower proposals. They will learn about and compare the pros and cons of using FERC's Integrated Licensing Process (ILP), Alternative Licensing Process (ALP), and Traditional Licensing Process to facilitate review of a hydropower application. The course also includes a high-level review of hydropower compliance.

LEARNING OUTCOMES

- Describe at a high level the FERC hydropower regulation process from start to finish
- Distinguish between FERC and other federal and state regulators
- Discuss licensing- terms and conditions
- Examine hydropower's current and new role in electricity markets
- Identify the major parts of FERC regulation, including licensing, compliance, and dam safety
- Review preliminary permits and their applications
- Apply structural design fundamentals for latticed self-supporting towers
- Review the licensing process
- Identify FERC's staff's role in the licensing process and to the Commission
- Discuss the Integrated Licensing Process (ILP)
- Describe the Alternative Licensing Process (ALP)
- Explain how to use FERC's NEPA EAs and EISs for state and other federal agency permit issuances



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*"Tom did a great job. Well-spoken
and well versed."*

VP of Corporate Development,
Clearview Energy

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This course is a deep dive of FERC's three licensing processes and preparation of applications for original license and new license (relicense) and associated regulations. It assumes that the attendee understands FERC's hydropower program or the equivalent to Introduction to FERC Hydropower. The course will describe in detail the steps in FERC's Integrated Licensing Process (ILP), Alternative Licensing Process (ALP), and the Traditional Process. The course will also detail preparation of the various exhibits of the license application, especially the Exhibit E and offer insights and tips to ensure prompt FERC and agency reviews to expedite decision making as well as the issuance of mandatory conditions under Federal Power Act section 4(e), 18, section 401 and 404 of the Clean Water Act, and coastal zone determinations required by the Coastal Zone Management Act.

LEARNING OUTCOMES

- Review in detail the integrated, alternative, and traditional licensing processes
- Discuss FERC license application preparation and associated documents that will be used in the NEPA process
- Describe external factors influencing the FERC hydro review with federal/state permitting processes
- Evaluate how to use the FERC process to consult with and obtain other Federal and State permits
- Explain how to prepare for meeting with FERC staff and hydro stakeholders
- Explain reality checks for brand new hydro relicensing
- Discuss state permitting on other areas affecting hydropower

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“

Tom Russo did a tremendous job teaching this information virtually. The course was very interesting, and I learned a lot about different hydropower plants throughout the world.”

Environmental Justice Program
Coordinator, NYPA



This course will present a detailed overview of compliance and administration required at 1,000 active hydropower licenses and more than 600 projects that are exempted from licensing by the Federal Energy Regulatory Commission (FERC). Together, these include over 2,500 dams. Attendees will learn how to administer and comply with conditions in licenses and exemptions. Compliance during construction and surrendering and transferring licenses will also be covered. The course will provide attendees with insights on how to work with FERC staff to achieve good compliance while maximizing project benefits. The instructor will also provide details on what licensees must consider and do when planning to add generating capacity and amending their existing licenses, including how FERC handles allegations of non-compliance of environmental conditions. The instructor will also cover hydropower security issues and annual filings required in the license. Note: this course will not cover dam safety compliance issues.

LEARNING OUTCOMES

- Discuss how to work with FERC's Division of Hydropower Administration and Compliance (DHAC)
- Review the NEPA and Endangered Species Act process when applying for a capacity-related amendment
- Identify what triggers or reopens a Section 401 Water Quality Certificate on a license
- Review administration and filing of Project Exhibits and drawings
- Discuss removing land from the project boundary
- Assess compliance with conditions and articles in licenses and exemptions
- Review DHAC's process when allegations of non-compliance are filed with FERC
- Review how License Article Reopener Requests are handled
- Identify how to transfer, surrender, or transfer a license
- Review Article 5 – Property Rights and Eminent Domain



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INSTRUCTOR

Tom Russo, Principal, Russo on Energy, LLC

PLEASE SELECT

REGISTRATION INFORMATION

To Register Click Here, or

Mail Directly To:

PMA Conference Management
405 Highview Rd
Englewood NJ 07631
201 871 0474
Fax 253 663 7224
register@pmaconference.com

ALL 4 COURSES: HYDROPOWER 101, INTRODUCTION TO FERC HYDROPOWER, FERC HYDROPOWER LICENSING AND FERC HYDROPOWER COMPLIANCE ONLINE COURSES
DECEMBER 7, 8, 14, 15, 2020: US \$2,495 (Single Connection)

- PACK OF 5 CONNECTIONS:** US \$9,980 (20% Discount)
- PACK OF 10 CONNECTIONS:** US \$17,465 (30% Discount)
- PACK OF 20 CONNECTIONS:** US \$29,940 (40% Discount)

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- HYDROPOWER 101:** DECEMBER 7, 2020
- INTRODUCTION TO FERC HYDROPOWER:** DECEMBER 8, 2020
- FERC HYDROPOWER LICENSING:** DECEMBER 14, 2020
- FERC HYDROPOWER COMPLIANCE:** DECEMBER 15, 2020

Recording: Each event is recorded, and will be available for three business days. For registrants only.

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name

Job Title

Company

Address

City

State/Province

Zip/Postal Code

Country

Phone

Email

CREDIT CARD INFORMATION

Name on Card

Billing Address

Account Number

Billing City

Billing State

Exp. Date

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

OR Enclosed is a check for \$ _____ to cover _____ registrations.

Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before November 6, 2020 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices.

EUCI reserves the right to alter this program without prior notice.

