# **Technology Innovation Project**

#### **Project Brief**

# **TIP 417: CEATI – Hydropower Operations and Planning Technical Program** Services

#### Context

Although hydraulic generation has evolved through many decades of technological change and environmental regulation, it continues to demonstrate an enviable track record of outstanding performance. It now operates in a world of unparalleled change with new paradigms which include: the competitive pressures of deregulation; increasing consumer reliance on hydropower's relative low cost and greenhouse gas emission-free source of energy; high stakeholder expectations; and ever increasing investor, government and public scrutiny. Many of the changes and challenges facing the industry such as climate variability and greenhouse gas emissions are beyond the control but impact the hydropower water manager.

The long term strategic direction of this group will be to develop new and innovative technological approaches and options to support the role of the water manager in managing and enhancing the underlying fundamental value of the industry, and to provide a knowledge-based leading edge technological resource to assist the hydropower industry in meeting its many new challenges.

#### **Topics & Issues**

- Watershed Management
- Meteorology and Hydrology
- Data Acquisition, Validation and Dissemination
- Hydraulics and Hydraulic Structures
- Planning, Operation and Risk Management
- Hydropower Operation and Environmental Concerns
- Waterways and Public Safety

#### **Annual Activities**

- 2 Meetings
- 1-2 Workshops
- 5-7 Conference Calls
- Weekly Information Exchange

#### Why It Matters

Membership provides a forum to network with industry peers and share of common concerns related to the Topics and Issues outlined in this interest group.

By comparing best practices and sharing problem solving methods with the membership, BPA develops an independent perspective of its performance and enables a culture of continuous improvement.

Finally, collaboration leverages BPA's investment by providing access to results from many large projects that BPA could not support alone.

#### **Goals and Objectives**

The goal of CEATI's HOPIG is to develop and make available cost effective water management expertise, tools, and leading edge technology through collaboration across a wide community of knowledgeable participants including utilities, independent power producers, government and other agencies.

This TIP contributes funds to CEATI/HOPIG research projects identified as shared, researchable issues through TIP 416.

#### About CEATI

The Centre for Energy Advancement through Technological Innovation (CEATI) is a user-driven organization committed to providing technology solutions to its electrical utility participants. Together, they collaborate and act jointly to advance the industry through sharing and developing practical and applicable knowledge.



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Project Start Date: Janu

January, 2020

Project End Date: December, 2020

#### Links

www.ceati.com/HOPIG

# **Current HOPIG Projects**

T182700 0432 Review and Recommendation of Hydrologic Forecast Verification Strategies and Methods

T072700 0410 Technology Review: Benchmarking Water Management Business Process

## Additional HOPIG Program Services

#### • Networking & Information Sharing

- o Annual face-to-face Business Meetings with webinar call-in options
- 4-5 conference calls and learning webinars
- Access to a network of ~1,000 electrical utility peers from around the world

#### • Industry Benchmarking

- Requests for Information where your questions or concerns are circulated to other group participants with rapid-fire response rates
- o Internal benchmarking surveys for state-of-the-industry intelligence

#### Collaborative Technical Projects

- The flexibility to support only those projects which are relevant to your organization, meaning you know exactly, where your research dollars are going
- Supported by CEATI management, participating utilities and consultants work together across all phases of a project's life-cycle, ensuring your organization receives practical, high-quality deliverables

#### • Unparalleled Return on Investment

- Ability to split project funding costs with other organizations, resulting in highly-leveraged funding opportunities
- o Reduced pricing on published reports, training courses, and industry-open conferences

#### Leverage

BPA FY2020 Budget:

\$ 8,000

This membership provides us access to reports and results of several HOPIG projects

## For More Information Contact:

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