

**National Hydropower Association
October 10, 2023 Board of Directors Meeting
Meeting Minutes**

Attendees:

Executive Committee

Mike Haynes	Thomas St. John	Sharon White
Pam Sullivan	Jay Anders (Past Chair)	Jim Hancock (General Counsel)

Board Members

Carl Atkinson	Suzanne Biddle	Suzanne Grassell
Scott Hennessey	Randy Herrin	Sarah Kulpa
Jeff Leahey	Joel Ledesma (Advisory)	Chris Mattson
Alan Michaels	Romain Pellegrino (Advisory)	Chris Rousseau
Chuck Sensiba	Mary Gail Sullivan	Justin Trudell
Eric Van Deuren	Heidi Wahto	

NHA Staff/ NHA Committee / Council / Task Force Representatives

Matt Allen	Marla Barnes	Francesca Blanco Hadjimichael
Jeremy Chase-Israel	Kimberly Costner	Chris Hayes
Joseph LoSasso	Brittney May	Michael Purdie
Kelly Rogers	Ellie Rubalow	Catherine Ryan
Copeland Tucker	Barbara Tyran	Malcolm Woolf

[Note: 19 of 20 voting Board members were present, representing a quorum. The minutes reflect the order that agenda items were discussed. All times are Eastern.]

Notes follow the Board meeting agenda (Item #) included in the final Board Book, unless noted.

Board Meeting starts at 7:59 AM Eastern – Mike shares a safety moment.

MEETING SUMMARY NOTES

Item 1 – Consent Agenda / Updates

- Mike Haynes notes the Consent Agenda Items are listed in the Board Book, including the updated Committee and Council report.
- **Thomas moves to approve consent agent; Eric VD seconded. Motion passed.**

Item 2 – Hydropower Foundation Update

- Linda Church Ciocci updates the Board on Hydropower Foundation activities.
- The Foundation has recently updated its mission statement to focus more directly on developing potential new workers for the waterpower industry.
- Foundation filed with DOE for \$1.3 million grant- includes WC² program, student engagement program, vets for hydropower program, a mid-career professionals program, trade school program, a women’s leadership program.
- Women’s leadership program- women’s executive training institute to bring in more diversity into C suites in industry. To be housed within the NHA Hydro Academy.
- WC² program- Student University Clubs at universities around the country, provides co-ops, internships. To be announced at the plenary session on Thursday morning. Organizing career fair at University of Cincinnati Linder College. Working with DOE to bring Hydropower Collegiate Competition students to Clean Currents.
- NHA funding for Foundation- 10k spent on welcoming session, 15k to organize career fair.

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- The Foundation requests that NHA provide the same level of funding in the coming year (25k).
- The Foundation complements NHA- brings in students so NHA can train them.

Item 3 – CEO Report on Key Activities

- Malcolm presents CEO report, shares updates on progress made on NHA’s 2023 Strategic Priorities, introduces new staff, and provides an update on the Uncommon Dialogue. Details are provided in the Board Book.
 - New Staff members: Barbara Tyran, Director of External Relations; Copeland Tucker, Director of Public Affairs; Ellie Rubalow, Events Specialist. Back up to full strength.
 - Tim Welch with DOE will be at Clean Current, hoping they will make announcement on infrastructure grants.
 - Uncommon Dialogue: grant money has been approved, \$3.7 million over 2 years (2024-25), NHA to receive \$600,000; 2023-24 election cycle- we have major pieces of legislation in Congress, people expect us to contribute on policy and politics, NHA does not have a PAC, need to support champions (Senator Cantwell is in cycle this year, Cathy McMorris Rodgers) with fundraisers.
- Some key topics discussed include:
 - Advocacy topics: hydropower license reform package- successful hearing in both the Senate and House, committee votes expected in both chambers in late October/November; tax bill to preserve existing fleet- re-introduced on 9/28, all eyes on Senate/House leadership, hoping there will be an end-of-year tax package; DOE 240 grant applications submitted, hoping for 243 announcements soon, 400 applications received for 247, DOE will rank proposals if needed; Clean Water Act 401 rule issued; IRA implementation- engagement with Treasury continues particularly on “Domestic Content” and Repowering (80/20 rule); billions more available in energy sector, NHA needs to be competing with wind and solar for that money, updated guidance document in Board book.
 - Connect topics: Clean Currents- \$2.1 million already raised, almost 1,500 registered, over 200 exhibitors, over 200 speakers. Waterpower Week- record participation, successful WPW Advocacy Day. Regional meetings received record attendance.
 - Inform topics: participation in committee and council meetings spiked in April and May because of 240 funding announcements, up by a third in participation in committee and council meetings; new curriculum development program will boost participation; Clean Living digital ad campaign is out and live in Northeast, Southeast, and Midwest; successful National Hydropower Day. [Action item- NHA to recirculate how to leverage federal funds guidance, results from Hydropower Day and Digital ad campaign \(in Board book but NHA will recirculate\)](#)
 - Implement: Strong financials thru September, already met budgeted revenues from year, still receiving registrations from CC and have California regional meeting in December; membership- 343 organizations with 38 new members.

Item 4 – Treasurer’s Report

- Thomas St. John presents the Treasurer Report. No slides presented but data is provided in the Board Book. Some highlights include:
- NHA in strong financial position, has collected over 100% of budgeted annual revenue and incurred 57% of modified budgeted expenses to date.
- NHA’s cash position remains strong with over \$1 million held in the operating account.

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- Clean Currents- to date has brought in 90% of budgeted revenue, expect to be well over 100%.
- Investments have been relatively flat, only 17% of NHA's financial assets are invested in equities.
- In the last 3 years we've made some big decisions (lease, CC, training curriculum), made wise decisions guided by staff leadership.
- Marla presented on membership status. Now have 343 member organizations (new record). Several new Alaska members. Salt River Project from Arizona has decided to join. See membership update on page 15 of Board book. More than half of the exhibitors at CC are not NHA members- opportunity to share message and encourage people to join. Over 350 registrants at CC have never attended CC before. A dozen students at CC- Wednesday lunch event, Board members encouraged to attend. 13 members currently at risk.

Item 5 – Board Nominations

- Open Board Seat: to fill Jay Anders' seat through end of 2025. ExCom recommends consideration of current advisory members (Sarah, Romain, Joel) to fill seat. Joel prefers to stay advisory. Sarah Kulpa appointed to fill Jay's seat.
- 2024 Board Candidate Slate. 24 nominations. Nominations committee recommends the following 12 for Board consideration:
 - Mark Benacquisto, (UBC) Millwrights
 - Deb Mursch, GE
 - Gia Schneider, Natel
 - Carl Atkinson, Voith
 - Scott Hennessey, Brookfield
 - Todd Briggeman, Black and Veatch
 - Jason Heilman, American Hydro
 - Kelly Larimer, Kleinschmidt
 - Jillian Lawrence, Patriot Hydro
 - Preston Pierce, Duke
 - Kamal Gautam, rPlus
 - Sarah Kulpa, HDR

In light of the election of Sarah Kulpa to replace Jay Anders on the Board, the nominations committee amends its recommendation to include Duff Mitchell on the slate.

Randy- motion to close nominations for final slate of 12. Thomas seconded. Motion passed.

Results of Board vote for final slate of 10:

Carl Atkinson
Mark Benacquisto
Todd Briggeman
Kamal Gautam
Scott Hennessey
Kelly Larimer
Jillian Lawrence
Duff Mitchell
Preston Pierce
Gia Schneider

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- 2024 Board Officer Positions nominations (to be voted on at December meeting):
 - Chair: Pam, Thomas
 - Vice Chair: Heidi, Carl, Chris Rousseau
 - Treasurer: Jeff, Eric
 - Secretary: Sharon

Item 6 – Recommendation to Launch New Service Offering: Professional Development Training

- Chris Hayes describes recommended approach to providing professional development training in the waterpower arena. Refer to memorandum in Board book for more information.
- Industry need for training based on listening tour in spring of 23 and reconfirmed in workgroup.
- NHA uniquely positioned to fill this role. Can leverage best content developers, trainers, and SMEs to provide high quality curriculum and cover a wide range of scope (licensing to asset management).
- Proposed Hydro Basics/101 course: 8 modules, 5 hours each equals 40 hours delivered over 6 to 9 months. Course Title: “Hydropower System Principals” covering overview of hydro (101), production planning, dam safety, equipment engineering and technology, asset management, markets, environment, licensing, etc.
- 201/301 level curriculum- will cross that bridge in the future.
- Delivery mechanisms: virtual but opportunity to leverage conference/meeting gatherings for in-person classes. Self-learning modules to provide flexibility.
- Certification: looking at Accreditation Board for Engineering and Technology for credits. Testing to play an important part in the curriculum.
- Cost per module: 150k x 8 = \$1.2 million. Additional costs for marketing, logistics and content delivery, etc.
- Jay commented that the proposal seems like a 201-level course and asked if the committee considered a true 101 one-day course? Chris Hayes- we were looking more at curriculum level program with accreditation, but we could develop a crash course in the future.
- Justin commented that FirstLight would send more people to a one-day 101 course, he doesn't see a large audience in IPPs for a 40-hour curriculum. It would take 500 people to sign up for course to recoup \$1.2 million.
- Alan asked who is your audience and recommended considering CLE credits for lawyers to attend. Chris- from my perspective the principles course would be for tech, lawyers, and everyone else.
- Scott asked what is the price point for the course, and noted that NHA needs to be sensitive to advanced training provided by unions and make sure it is complementary. Chris- \$4,000 per person is price point for members. Justin mentioned he thought it was too high for IPPs.
- Thomas commented that we don't want to underprice it. Need to take some risk. Void will be filled by someone else.
- Chris Mattson commented that Tacoma needs a 101 course for its utility workers. When onboarding people this would be valuable, especially FERC licensing overview and dam safety.
- Malcolm- I'm hearing consensus on a “yes and” program to include the larger curriculum and a one-day crash course. At 4k price point we'd need 300 registrants to break even. Need a better sense of how many people would sign up.
- Carl recommended to work in ½ day for a plant tour during a regional meeting.
- Chris Hayes- I've conferred with asset owners and I'm comfortable that they will send people at this price point.
- Warren Paul recommended that we touch base with USSD on its experience on training, it taps FERC and Corps of Engineers as lecturers.

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- Tom Sullivan noted that NHA has offered 2-3 day courses in the past and we should look to that experience. We offered course on settlement negotiations and could only do it every 3 years.
- This is not approval to spend \$1.2 million, only for staff to pursue RFP process and present back to Board with an estimate for the budget process at December meeting.
- Proposed Vote for Board approval: the Board directs NHA staff to: (1) solicit bids to hire external support, (2) seek commitments/pre-sell units to cover curriculum development and related program costs, (3) submit 2024 budget with goal of recovering costs in no longer than 2 years, and (4) continue leveraging ad-hoc Advisory Group.
- **Chris Rousseau makes motion to solicit bids to hire external support and seek commitments and pre-sell units for full curriculum and one-day comprehensive course, move to next step on budget proposal; Alan seconded. Motion passed.**
- **Action item: Chris Hayes and training ad-hoc group to solicit bids and pre-commitments and compile budget proposal for presentation at December board meeting.**

Item 7 – Biden Administration’s Clean Water Act 401, ESA and NEPA Rules

- Mike Purdie provides update.
- 401 rule: effective November 27. If you have an ongoing 401 application, certification will be processed under new rule. EPA claims this is not retroactive rulemaking, NHA looking to focus on this in litigation (low hanging fruit for preliminary injunction against the rule). Troutman will represent NHA to challenge rule. Still looking at what we will file- complaint, preliminary injunction or something else. A preliminary injunction might cause the judge in the existing complaint in N.D. Cal. district court to revive case to review the Trump rule. Will probably file in 5th Circuit in Louisiana.
- ESA Proposed Rule on interagency consultation: NHA/NWHA filed joint comments on August 21, 2023. Reinitiation provision could be very problematic, especially during the existing license term. Rule likely to be finalized in summer or fall 2024. NHA recommends we litigate this provision if it is adopted.
- NEPA Phase II: Proposed rule published by CEQ at end of July. NHA/NWHA filed joint comments. FERC would have to do its own rulemaking to incorporate provisions. NHA will monitor this proposed rule for now.

Item 8 – How to Get Ahead of the Methane Issue

- Mike Purdie presents an update on methane emission arguments.
- This continues to be an issue and the stakes are huge. We brand ourselves on essential part of clean energy solution. This is a direct challenge to whether we are clean. In addition, language in IRA that you qualify for tax credit if emissions are no greater than zero. 80/20 rule goes away if we don’t qualify for clean energy tax credit starting in 2025.
- NHA would like to pull together an advisory group to help guide us on this issue.
- Alabama Power Coosa FEIS issued last Friday- FERC pushed back on pre-project conditions, FERC found emissions of GHG are front loaded for projects, it has stabilized, will not require any further evaluation of emissions.
- Recent DOE reports assume reservoir emissions- this is problematic.
- WRI putting out Scope 1-3 guidance that is being picked up by industry. Have not yet issued final Scope 2. We think hydro will be in the clear (direct emissions). In Scope 3 we are vulnerable.
- EDF launching satellite that will monitor emissions, targeting natural gas facilities in Russia and China but only a matter of time before it flies over a reservoir. IHA pointed out there have been flights over hydros in other countries and found that de-gassing is a real phenomenon. NHA needs to figure out how to get ahead of this issue.

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- SEC has proposed rule to make public companies with net-zero claims to put out information and California legislation that is similar.
- Volunteers for ad-hoc group: Suzanne Grassell, Jeff Leahey, Tim Hemstreet, Scott Hennessey, Duff Mitchell, Alan Michaels, Randy Herrin. [Action item: Malcolm to form advisory group.](#)

Item 9 – DEI: What Steps Can Board Take to Further Advance Our Industry’s Commitment

- Malcolm presents on what additional steps Board can take to advance our DEI commitment.
- We are keeping track of speakers and events, highlighting diverse voices at our events. In terms of attendance and participation, our events look like our industry (70% male).
- We’ve been using an advisory group on this issue.
- Training won’t solve issue. Need to keep awareness up, think about unconscious bias. Over time we will make progress even though there is no silver bullet.
- Ad hoc committee wants to increase participation, looking for any Board recommendations.
- Idea to hold soft skills workshop at California regional meeting on implicit bias. Board agreed this would be appropriate. [Action item: NHA to proceed with soft skills workshop in California.](#)

Item 10 – Raising Awareness Beyond Our Industry

- Barbara Tyrann presents Vision for External Relations:
 - Trying to raise visibility of NHA within state energy policy groups
 - Help deepen our relationship with ACORE and on transmission issues
 - Barbara to attend NASEO event next week
 - Try to convey messages to state PUCs of valuation of pumped storage
- Copeland Tucker provides update on 2023 National Hydropower Day
 - Social media event was very successful.
 - 382 editorial mentions, 19 mentions from government officials, 396 articles shared on social media. Press releases, industry engagement
 - Invited members of Congress on tour of hydro facility, including Rep. Newhouse from WA.
 - See appendix to Board report.
- Copeland Tucker provides update on “Clean Living” Digital Ad Campaign
 - Aimed at 1 million millennials in 10 states.
 - Ad currently running.
 - Tomorrow is global hydropower day. Asking Board to push out IHA’s message.

Item 11 – Clean Currents 23: Leveraging NHA’s Board to Maximize Event

- Francesca and Joseph brief the Board on events planned during Clean Currents.
 - Registration at 1,511, at 136% of projected budgeted revenue.
 - 505 are first-timers (35%)
 - 21 countries represented
 - 21% of registrants are asset owners (62 companies)
 - Exhibits- \$1.3 million exhibitor revenue, 110% to budget, sponsor revenue at 350k.
 - 5 federal agencies here at Show Me the Money station
 - Refer to Board book on comps to last year
- Exhibitor outreach- Board members to greet exhibitors and thank them. Attend coffee break with new attendees to Clean Currents.

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Item 12 – New Business

- None

Action items:

- NHA to recirculate documents from the Board book on federal funding opportunities, results from National Hydropower Day, and Digital ad campaign.
- Chris Hayes and the training ad-hoc group to move forward on the RFP process and seek pre-sell commitments on the “yes and” training proposal to present at December Board meeting with a budget request.
- Malcolm to form and kick off advisory group to help guide NHA on the methane issue.
- NHA to move forward with soft skills DEI workshop at California regional meeting.

Item 13 – Executive Session

- *Thomas moved to go into Executive Session, Jay seconded.*
- *Jeff moved to conclude Executive Session, Thomas seconded.*

Eric VD moved to adjourn meeting, Thomas seconded. All approved. Meeting adjourned at 12:28 pm Eastern.



Activities of NHA Programs December 12, 2023

ADVOCACY

LEGISLATIVE

Hydropower Licensing Reform –

The House and Senate bills continue to make progress in their respective chambers. In the House, H.R. 4045, the Hydropower Clean Energy Future Act passed out of the Energy and Commerce Subcommittee on Energy, Climate, and Grid Security, with a final vote of 16/12 along party lines. On December 5th and 6th, the full Committee will hold a markup of 44 pieces of legislation, including H.R. 4045.

In the Senate, S. 1521, the Community and Hydropower Improvement Act has had a legislative hearing and is on the long list to be included in a December markup. The past two Senate Energy and Natural Resources Committee markups have been canceled, and the list of bills to be considered is long. We are continuing conversations with our bill champions to work to ensure that S. 1521 be included on the short list.

These two bills are directionally similar and have strong bipartisan support. If the Senate and House bills can successfully pass out of their respective legislative markups, they would then be sent to conference for both chambers to negotiate the final text.

Tax Credit for Environmental Improvements and Dam Safety Upgrades at Existing Hydropower Facilities –

The Maintaining and Enhancing Hydroelectricity and River Restoration Act, S. 2994, now has 9 cosponsors, including Sens. Murkowski (R-AK), Sullivan (R-AK), Stabenow (D-MI), King (I-ME), Tillis (R-NC), Gillibrand (D-NY), Shaheen (D-NH), Peters (D-MI), and Collins (R-ME).

In the House, Rep. Adrian Smith (R-NE) has agreed to lead the House companion to S. 2994. Rep. Smith is the third most senior member of the Ways and Means Committee, and he is planning to introduce the bill before the end of the year. So far, Rep. Tenney (R-NY) has agreed to cosponsor. NHA has several meetings set up to try to find Democratic cosponsors, and both Anne Kuster (D-NH) and Suzanne Delbene (D-WA) have expressed interest in supporting the package again.

NHA has heard from the Senate Finance Committee that for any proposal to be included in a tax package, it needs to meet three criteria: 1) Bipartisan 2) Bicameral 3) Under \$1 billion. Our legislation meets all three, making it a strong contender for inclusion.

Hydropower Start-of-Construction License Extension Legislation –

NHA has been supportive of efforts led by Nelson Energy, Juneau Hydro, and Rye Development to develop legislation that would allow the Federal Energy Regulatory Agency (FERC) to extend a congressionally mandated start-of-construction deadline for existing FERC licensed hydropower projects by 4 years. This extension aims to accommodate the time lost due to COVID-19, supply chain disruptions, inflation, and interconnection queue delays, which have collectively hindered the progress of 36 FERC-licensed, unbuilt projects in 17 states totaling more than 2.6 GW of hydropower, which are at risk of missing the start-of-construction deadline, with the earliest deadlines approaching in March and April of 2024.

S. 3373, a bill to require the Federal Energy Regulatory Commission to extend the time period during which licensees are required to commence construction of certain hydropower projects, was introduced by Senator Daines on November 30th. So far the bill has 3 cosponsors, including Sens. Casey (D-PA), Hyde-Smith (R-MS), and Fetterman (D-PA).

NHA submitted a letter of support to Chairman Manchin and Ranking Member Barrasso and will continue meeting with Congress to advance this bill through the legislative process.

BIL/IRA Implementation – Post passage of the Inflation Reduction Act (IRA), the Committee has focused on emerging federal regulation and will continue to provide guidance related to the implementation of this regulation. The Legislative Committee will continue to work with the Regulatory Committee to submit comments and feedback on all applicable Administration policies, ensuring that industry’s voice is heard.

REGULATORY

- NHA has submitted supplemental comments to IRS and Treasury requesting clarifying guidance on the application of the “80/20” rule for hydropower facilities and the treatment of hydropower for tax credits 45Y and 48E.
 - NHA requests that the value of real property be excluded from an 80/20 analysis in favor of a unit-level evaluation of equipment integral to the generation of electricity.
 - NHA also requests that pumped storage hydropower qualify as energy storage under 48E and qualify as a generation facility under 45Y.
- Staff are reviewing the recent Notice of Purposed Rulemaking on Section 48 ITC in the IRA. Comments are due January 22nd.

- NHA has filed a preliminary injunction against the Clean Water Act Section 401 final rule in the Fifth circuit court in Louisiana.
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ENERGY MARKETS

- NHA staff are continuing to monitor developments in the planning and design of Southwest Power Pool's Markets + and have begun initial conversations with members on how to best advocate in this new marketplace.
 - NHA has filed comments on docket ER24-275 applauding ISO New England for their proposal to finally compensate hydropower suppliers for the value of ten- and thirty-minute Day-Ahead reserves.
 - This long overdue product recognizes the large role hydropower plays in reliability and contingency protection
 - NHA also sought clarification that ISO-NE will be required to analyze the performance of the proposed \$10/MWH strike price adder a year after DASI implementation
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MEMBER PROGRAMS

HYDROPOWER TECHNICAL COMMUNITY



- Operational Excellence (OpEx) Online Resource Tool
 - New tool is live on the NHA Member Portal
 - Features:
 - 267 event reports, categorized by: Maintenance, Safety, Operations, and Environmental
 - Video Library, providing access to on-demand webinars on a variety of topics
 - 14 new event reports submitted in CY 23.
- Asset Owner Forum
 - Consists of three groups, open to any power producer/asset owner that is an NHA member organization:
 - Senior Leaders Forum
 - *Met at Clean Currents*
 - *Meeting in San Diego during the NHA California Regional Meeting*
 - Chief Dam Safety Engineers (CDSE) Roundtable
 - *Met at Clean Currents*

- *Meeting virtually on Dec. 8*
 - Operations and Maintenance (O&M) Roundtable
 - *Met at Clean Currents*
 - *Meeting virtually on Dec. 5*
- Lunch and Learn Webinar Series for Member Organizations
 - 10 webinars offered so far in 2023
 - 985 total participants (average of 99 participants per webinar)
 - Each webinar is recorded/uploaded to the OpEx Video Library for viewing “on demand”

Since the last Board meeting, two Lunch and Learns were held. Engagement in these meetings is summarized below.

Program	Date	Title	Attendance
Lunch and Learn Webinar	October 2023	A Variety of Hydroelectric Facility Water Mist Fire Protection Systems	18 owners / 77 people
Lunch and Learn Webinar	November 2023	Overview of Wholesale Electricity Markets	30 owners / 123 people

The last Lunch and Learns of the calendar year is set for December 20. Topic: Forecasting and Projecting Hydropower Generation at Brookfield Renewable US

WATERPOWER INNOVATION COUNCIL

Highlights of Council Activities:

- Innovation Power House at Clean Currents
 - A wide range of innovation was captured across several topic areas, including equipment, construction, artificial intelligence, and regulatory
 - Highlights include:
 - new coating solutions for different applications
 - leveraging AI in asset management
 - new Hydropower eLibrary (developed by DOE to make use of FERC eLibrary much simpler)
- Second Innovation Lunch and Learn held on November 29
 - Guest Speaker: Curt Jawdy, Senior Program Manager, Innovation and Research, Tennessee Valley Authority
 - Topic: Tips on accelerating change to meet the future needs of the TVA hydro system
 - More than 125 contacts at member organizations participated
 - Offering 1 hour of professional development credit (PDH) for those that participate

- Efforts continue to inform the U.S. Department of Energy’s Water Power Technologies Office funding request for the FY 2025 Energy and Water Development Appropriations measure.
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HYDRO ACADEMY



Highlights of Academy Activities:

- **Training/Educational Workshops offered at Clean Currents**
 - Basin Scale Planning and Licensing – 30 participants
 - Dam Safety Forum – 25 participants
 - Flowing Together: Reconciliation through Collaboration – 5 participants
 - The Art of Public Speaking and Facilitation – 40 participants
 - Unlocking the Behavior of Generator Stator Foundations – 24 participants
 - Writing RFPs for Equipment Refurbishments and Upgrades – 73 participants
- **Educational Workshop Offered at California Regional Meeting**

Wednesday, December 13, 1 p.m. to 5 p.m.
Dam Safety Workshop: Performing Comprehensive Assessments – Lessons Learned, Best Practices and What Comes Next?

 - Focus on undertaking Comprehensive Assessments under the Federal Energy Regulatory Commission’s new guidelines
 - Valuable insights will be shared covering the planning process, execution, level of effort, and next steps following a comprehensive assessment, including how to leverage outputs to inform decisions and prioritize work.
 - Several perspectives will be shared, including those from FERC (Dave Capka), independent consultants, and hydroelectric project owners.
- **Hydropower System Principals Certified Training Course:**

Working with an AdHoc Working Group of board members, created a proposal for a Hydropower System Principals Training Course (proposal was in front of the Board for consideration/approval at the October 2023 meeting), actions taken since include:

 - Member survey on need for employee training issued on November 15, response collection still underway.
 - Requests Expressions of Interest to Develop Curriculum for Training Course issued on November 18, responses requested by December 18.

- **Eels Workshop to be Offered in Washington, D.C., during Waterpower Week:**
 - Will focus on the American Eel, their long history in North America, importance to water systems and quality as well as their safe passage through hydropower production facilities including operational, policy and regulatory aspects.
 - Will discuss science-based best practices that support mutually beneficial outcomes such as simplified hydro operations, healthy fisheries, and improved water quality.
 - Intent is to bring forward the challenges that both natural resource agencies and hydropower practitioners face in addressing competing priorities (e.g., maintaining and developing renewable energy sources and reversing the decline of the American eel population)
 - Working with U.S. Fish and Wildlife and Natel Energy to develop curriculum
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FLOW

- Kelly Rogers is now acting as the primary staff support for FLOW. Kelly will be working closely with other NHA staff to ensure FLOW initiatives are incorporated into NHA's work as well as including those with diverse backgrounds to better inform FLOW's work.
- **FLOW Calls**
 - December 21 – A virtual holiday mixer featuring the NHA's very own Britney May.
 - January 18 – Advocacy 101 – guest speaker to be confirmed
- **2024 FLOW Goals & Plans**
 - November 6 – the committee met to discuss 2024 FLOW Goals & Plan. We will be continuing to strategize and expand on this brainstorming session.
- **Waterpower Week FLOW Events**
 - An official "Happy Hour" at a bar on the Hill on the Wednesday evening

We will be matching up first-time event attendees and interested FLOW members with senior industry members like the NHA board. We are trying to set aside some time at one of the lunches to bring in the matched pairs to sit down and network and then do sort of like a "speed dating" event at that same lunch with the pairs.

[Marine Energy Council](#)

- The MEC is working on a response to the DOE WPTO on their recent industry feedback meetings relating to the DOE WPTO Multiyear Program Plan. These meetings did not offer sufficient commenting time or topics for the private sector and universities.
 - The Marine Energy Priorities Working Group is still collecting responses to its survey which will inform the third edition of the Marine Energy Priorities Position Paper which outlines near-term and long-term priorities for the marine energy sector. The paper should be published prior to Waterpower Week.
 - We were pleased to see the California marine energy state legislation passed! California is the first state to pass marine energy focused legislation and the MEC will use this legislation in our work in creating model state legislation.
 - We have brainstormed Waterpower Week content and are working on fleshing out the sessions which will include a dialogue with DOE WPTO, following up on the dialogue the Council had at WPW 2023.
 - NHA was invited to speak at the Marine Renewables Canada Conference December 4-6. This is the beginning of a collaborative relationship with the NHA-MEC's Canadian counterpart.
 - The Council will be implementing a new structure for 2024. We will be consolidating our working groups to allow for better, more effective communication and coordination among the Council's participants. We will have an advocacy working group which will work on policy priorities and communications activities. We will also have a marine energy priorities working group which will focus on the direction of the Council and capturing and presenting the priorities of the U.S. marine energy sector.
 - We will be focusing on three key priorities for 2024. Those are:
 - Continuing to ensure robust RDD&D funding is available to private sector marine energy technology developers
 - Continuing to provide a forum for marine energy sector individuals to information-share and network at monthly meetings, within working groups and at industry events.
 - Pursuing advocacy action relating to "market pull" mechanisms for marine energy technology adoption at the state level which could fill a current gap in the technology's adoption
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[Pumped Storage Development Council](#)

On November 22, the Treasury Department released a Notice of Proposed Rulemaking (NPR) for Section 48 of the Tax Code that governs the Investment Tax Credit. As part of the Inflation Reduction Act, an energy storage ITC was included. The NPR includes numerous revisions, but in particular it explicitly allows for pumped storage to be an eligible storage technology for the purposes of the ITC. These credits will sunset on December 31, 2024. NHA is reviewing the document and will file comments towards the end of the 60-day comment period.

Small Hydro Council

- We finished our educational programming for the year with our November monthly member meeting on dam decommissioning and license surrender. As you may remember, our monthly member calls have gone through the project development lifecycle. We do still have one member meeting left this year on December 14. This upcoming call will be a case study extravaganza with guest speakers presenting their work on various aspects of small hydro.
- We are starting to strategize on what the Council's work will look like next year. This year's set-up went very well with having educational and advocacy topics covering the project development lifecycle, so we are exploring if we should continue that programming next year.
- We will be kicking off Council calls next year with a legislative “look ahead” in January which will look at legislation on the horizon and how it impacts small hydro.
- We are staying updated on developments at the USACE relating to their implementation of the WRDA 2022 bill which included Sec. 408 application process direction.
- Performing outreach to small hydro experts at FERC to invite some speakers to a Council call as a main priority for members of the Council is learning and engaging with FERC's small hydro licensing processes and options.
- Aimed at better informing NHA’s appropriations work, the Council is starting to strategize on what funding needs they need that could come from DOE WPTO.

EVENTS

Clean Currents Tradeshow + Conference



	2023 Budget	2023 Actuals	2022 Actuals	2021 Actuals
Registration- Revenue	\$400,000	\$567,948	\$566,077	\$259,325
# of Registrants	1,125	1,617	1,670	861
# of Attendees onsite	1,125	1,560	1,608	781
Exhibit Revenue	\$1,189,000	\$1,313,101	\$985,800	\$621,5500
# of Exhibitors		210	154	93
Sponsor Revenue*	\$330,674	\$309,020	\$282,745	\$208,550
# of Sponsors		42	37	37

*= does not include revenue from host utilities

2024

- October 7 – 10, 2024
- Oregon Convention Center in Portland, Oregon
- Northwest Hydroelectric Association (NWEHA), U.S. Army Corps of Engineers Hydroelectric Design Center, and PacifiCorp have expressed support and cooperation
- CC Central floor plan finalized; exhibit space rebooking underway (~83% rebooked so far), sponsor rebooking underway as well.
- Working on communications about Portland as a safe destination

2025

- October 13-17, 2025
- David L. Lawrence Convention Center, Pittsburgh, Pennsylvania
- Contracts being reviewed; not yet signed

Waterpower Week in Washington

	2023 Budget	2023 Actuals	2022 Actuals
Registrants	460	590	477
Registration Revenue	\$320,00	\$404,948	\$311,609
Sponsors	20 companies	20 companies	20 companies
Sponsorship Revenue	\$75,000	\$78,500	\$69,871

2024



- March 13-15, 2024
- Capital Hilton Hotel
- Expanded sleeping room block to accommodate more attendees
- Secured additional meeting space to allow for greater attendance in breakout sessions
- 2024 website live: www.waterpowerweek.com

2025

- March 31 – April 2, 2025
- Capital Hilton Hotel

Regional Meetings



2023 Leadership for Regional Meetings Series

Chair:

- Jennifer Moore, Mesa Associates

Vice Chairs:

- Ginger Gillin, GEI Consultants
- Emily Schwartz, Black & Veatch

Overall Numbers for Series as of 11.30.23 (Note: the California Regional Meeting not yet finalized)

Item	Budget	Actuals to date	% of Actuals to Budget
Registration-Revenue	\$65,000	\$87,973	135%
Registration-People	560	688	123%
Sponsorship Revenue	\$120,000	\$148,750	124%

2023 National Level Sponsors

- American Babbitt Bearing
- American Hydro
- Andritz
- Ballard Marine Construction
- Black & Veatch
- Emerson
- GE Renewable Energy
- GEI Consultants
- HDR
- J.F. Brennan Company, Inc.
- Kleinschmidt Associates
- L&H Mechanical
- Litostroj Group
- Mavel Associates
- Mesa Associates
- Schnabel Engineering
- Stantec
- Thompson | HCMS
- Troutman Pepper
- TurbinePros
- Van Ness Feldman
- WSP

2023 Specific Region Sponsors:

Midwest:

- BCI Construction
- Lemke Industrial
- Mead & Hunt

Northeast:

- Gomez and Sullivan
- Steel-Fab, Inc.
- Underwater Construction Corporation

Alaska:

- Barnard
- McMillen
- Northwest Hydraulic Consultants

California:

- McMillen

2024 Regional Meetings

Region	Location	Date	Host/Partners	Tour
Southeast	Auburn, Alabama	January 23-24	Alabama Power Georgia Power	Martin Dam – options to tour powerhouse/dam or to tour the reservoir and shoreline, via pontoon boat
Midwest	Des Moines, Iowa	April 30 – May 1	Missouri River Energy Services / Midwest Hydro Users Group / Hydropower Collegiate Competition, a project of the U.S. Department of Energy, National Renewable Energy Laboratory, and the Hydropower Foundation	Red Rock Dam (new hydro at an existing Corps of Engineers’ dam)
Alaska	Juneau, Alaska	August 27-28	Juneau Hydropower / Alaska Energy Authority / Alaska Electric Light & Power Company / Alaska Power Association	TBD
California	Redding, California <i>(Tentative)</i>	First week of December <i>(Tentative)</i>	Pacific Gas and Electric Company	TBD – options: Pit 7, Pit 1, Shasta

2024 National Level Sponsors, to date:

American Babbitt Bearing	Litostroj Group
American Hydro	Mavel Americas
Andritz	Mesa Associates
Ballard Marine	Schnabel Engineering

Emerson	Stantec
GE Vernova	Thompson HCMS
HDR	Troutman Pepper
J.F. Brennan Company, Inc.	Turbine Pros
Kleinschmidt Associates	WSP
L&H Mechanical	

2024 Specific Region Sponsors:

Southeast: BCI Construction

Alaska and California: McMillen

PUBLIC AFFAIRS

Board Report: Public Affairs Committee

Promoting Hydro on the Hill: Beginning November 30th, NHA placed an ad buy with DC policy publication, The Hill, that will run for 2 weeks. The campaign includes a digital advertisement on the outlet’s webpage and a full-page ad that will run in the December 5th print edition. The key messages in the advertisement are: reminding people of hydro’s importance in creating a 24/7 reliable clean energy grid and encouraging lawmakers to advance our industry’s legislative priorities.

Digital Ad Campaigns: The 2023 “Clean Living” digital ad campaign is shaping up to be a big success. The ad, which aired on social media and streaming platforms this fall, achieved around 5 million impressions with a frequency of over 22. We are currently seeking input on four proposals for a 2024 campaign to build on this momentum.

Committee Schedule Changes in the New Year: In an effort to encourage membership, we will be holding monthly meetings beginning next year that are only open to Public Affairs Committee members; these meetings will include discussions and input on NHA’s public affairs work. Meanwhile, we will begin holding learning sessions once a quarter, instead of every other month, to allow more planning time and to place greater emphasis on the more actionable monthly meetings. We will change the name of these learning sessions to “NHA Communicator’s Forum,” and they will remain open to the public.

Hydro in the News:

[Researchers explore using AI to count salmon and avoid fishy data, while others map human brain](#), Oregon Public Broadcasting

[Reflecting on Water Power Competitions and Research at Clean Currents](#), Office of Energy Efficiency and Renewable Energy

[Many residents say publicly they support maintaining hydropower at Willamette River dams](#), Oregon Capital Chronicle

NHA's Diversity Equity and Inclusion (DEI) Initiatives

In the past year, NHA has shown demonstrable steps in walking the talk of our DEI policy. For example

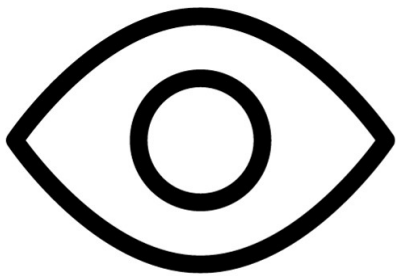
- At Waterpower Week we wanted to ensure diversity of speakers (1/3 being women and/or black, Indigenous and people of color (BIPOC))
 - SIGNIFICANTLY EXCEEDED: 56% of speakers were women and/or BIPOC
- At Regional Meetings, we wanted to accomplish something similar as WPW (1/3 being women and/or black, Indigenous and people of color (BIPOC))
 - ACHIEVED: For the first 3 Regional Meetings in 2023, 46% of speakers were women and/or black, indigenous and/or people of color (BIPOC)
 - NOTE: This number does not include the California meeting as it hasn't happened yet.
- And At Clean Currents (1/3 being women and/or black, Indigenous and people of color (BIPOC))
 - ACHIEVED: 37% of speakers were women and/or BIPOC

Finally, NHA has joined forces with a consortium of energy companies thru Renewables Forward, which will result in the creation of a DEI Framework, Resource Library, and Roll-out Campaign for those wanting to take advantage of these important resources and tools in '24. More information will be provided in coming meetings.

POWERHOUSE Website Statistics
All Data Pulled from Date Range: October 1 - November 30, 2023



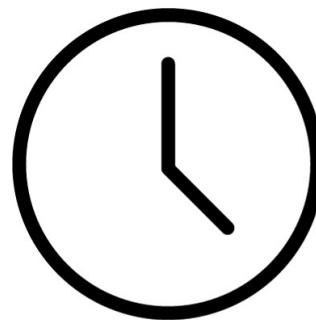
www.hydro.org/powerhouse



8,173

(# of Page Views)

13% of visits to hydro.org

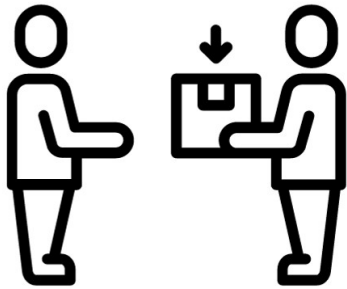


1:20

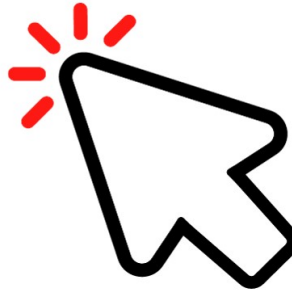
(Average # of Minutes Spent on POWERHOUSE Pages)

Every week, NHA staff posts content on www.hydro.org/powerhouse. Sections of content are: Insights, Connect and Learn, and Company Announcements.

POWERHOUSE Email Statistics: Averages from All Weekly Emails Sent from 10/1- 11/30



6,460
(Average # of Recipients)



282 (5% of Recipients)
(Average # of Unique Clicks*)



2,300 (35% of Recipients)
(Average # of Unique Opens)**



13%
(Average % of Unique Clicks to Open*)**

POWERHOUSE is distributed on a weekly basis. By utilizing RASA, an AI informed news aggregator, NHA is able to find and identify stories about waterpower related to member interests. Relevant stories are then 'fed' back to readers via a personalized email.

*** Unique Clicks = # of unique recipients that click on a link**

**** Unique Opens = # of recipients who opened the email**

***** Unique Clicks to Open = Of the recipients who opened the email, the % who clicked on a link**

Social Media Followers

Social Media Statistics from October 1 - November 30, 2023



3,746 (Total # of Followers)

5,340 (Total # of Followers)

2,237 (Total # of Followers)

475 (Total # of Followers)

33 (Total # of **New Followers)**

358 (Total # of **New Followers)**

77 (Total # of **New Followers)**

52 (Total # of **New Followers)**

1% (Growth)

7% (Growth)

4% (Growth)

11% (Growth)

Content Overview

Social Media Statistics from October 1 - November 30, 2023



96 (Total # of Posts)	47 (Total # of Posts)	52 (Total # of Posts)	53 (Total # of Posts)
190 (Total # of Reactions)	1,709 (Total # of Reactions)	1,283 (Total # of Reactions)	342 (Total # of Reactions)
22 (Total # of Comments)	35 (Total # of Comments)	32 (Total # of Comments)	9 (Total # of Comments)

BYLAWS
NATIONAL HYDROPOWER ASSOCIATION

ARTICLE I. Name

The name of this corporation shall be the National Hydropower Association, Inc., hereinafter referred to as NHA.

ARTICLE II. Objectives

The objects and purpose of this association shall be:

- A. To unite in common organization any person, trade union, firm, company, corporation, partnership, trade association, governmental entity or other organization which owns a hydropower facility, or which is engaged, directly or indirectly, in the manufacture of hydropower equipment or the development, financing, licensing, operation, or maintenance of hydropower facilities; or in providing services to the hydropower industry.
- B. To encourage, stimulate and promote cooperation among the members of the hydropower industry;
- C. To promote the common interests of its members and improve their business condition; and
- D. To conduct other such activities as may be within the meaning of Section 501(c)(6) of the Internal Revenue Code of 1954, as amended. Specifically, these may include but shall not be limited to:
 - 1. Influencing legislation of interest to NHA members by appearances before, submittal of statements to, and transmittal of communications to committees and individual members of Congress with respect to legislation or proposed legislation.
 - 2. Promoting better understanding of the hydropower industry by regulatory agencies and review and comment on regulations or proposed regulations affecting the industry.
 - 3. Improving hydropower's public image by conducting a public relations program, including preparing and publishing material to educate the public, energy stakeholders and other interested entities about hydropower.
 - 4. Developing programs and the holding of seminars and lectures for the education of its members and the general public.
 - 5. Promoting research on and analysis of methods and effects of increasing the utilization of hydropower in the United States.
 - 6. Helping generator members achieve a high level of operational excellence in their hydropower operations.

ARTICLE III. Members

Section 1. Requirements. Membership in NHA shall be limited to any person, trade union, firm, company, corporation, partnership, trade association, governmental entity, or other organization which:

- A. Owns or leases a hydropower facility, or
- B. Is engaged, directly or indirectly, in the manufacture of hydropower equipment; the development, financing, licensing, operation or maintenance of hydropower facilities; or in providing services to the hydropower industry.

Section 2. Classification. There shall be two classes of membership, voting and associate; the voting class shall be made up of three grades of membership, Generator members, Service Industry members, and supporting members:

- A. The Generator grade shall:
 - 1. Include members that own, directly or indirectly, hydropower facilities in operation.
 - 2. Be comprised of two levels of membership:
 - a. Leadership Level – generators with an installed capacity greater than or equal to a capacity established by the Board of Directors.
 - b. Contributing Level – generators with an installed capacity less than the limit set for the Leadership Level as established by the Board of Directors.
 - 3. Have full voting and participation rights in NHA.
- B. The Service Industry grade shall:
 - 1. Include members that provide services or manufacture equipment to the hydropower industry.
 - 2. Be comprised of two levels of membership:
 - a. Leadership Level – Service Industry members with annual revenues from the hydropower industry greater than or equal to an amount established by the Board of Directors.
 - b. Contributing Level – Service Industry members with annual revenues from the hydropower industry less than the limit set for the Leadership Level as established by the Board of Directors.
 - 3. Have full voting and participation rights in NHA.
- C. The Supporting grade shall:
 - 1. Include members who are individuals, partnerships, corporations, or associations involved in any aspect of the hydropower industry described in Section 1 of this Article III , whose size or stake in the hydropower industry is small relative to Contributing Service Industry members;
 - 2. Have full voting and participation rights in NHA.

D. The Associate class shall:

1. Include members who are individuals, companies, educational institutions, governmental entities or associations with an interest in NHA.
2. Have no voting rights, but shall be allowed to attend annual meetings, conferences, and seminars and participate as otherwise directed by the Board of Directors.

The differences set forth distinguishing among the classes, grades, and levels of membership may be waived by the Chief Executive Officer, with the concurrence of the Executive Committee, for good cause. The Board of Directors shall be notified of any such waiver at its next regularly scheduled meeting.

Section 3. Admission of Membership. Admission of membership shall be obtained by eligible persons, as defined in this Article, Section 2, A, B, C, D, upon written application, and full payment of dues.

Section 4. Annual Dues.

- A. Annual dues for each grade and class of membership shall be established by the Board of Directors.
- B. Annual dues are payable prior to February 15 and are considered delinquent after March 1.
- C. Members whose current dues are not paid in full before April 1 or the Annual Conference (whichever comes first) shall cease to be a member of NHA. Any such member shall be eligible to reapply for membership without prejudice.

The Board of Directors may revise dues from previously established amounts upon a 2/3 majority vote of the Directors at a meeting for which advance notice of pending dues revision of at least 10 days has been given or by a unanimous vote of all Directors without notice of such pending dues revision.

Section 5. Resignation.

- A. A member may resign from NHA by giving notice to the Chief Executive Officer and any such resignation shall be presented at the next meeting of the Board of Directors.
- B. Dues shall not be refunded to a member presenting its resignation.

Section 6. Suspension and Expulsion. Members must remain in good standing to retain their membership privileges. Good standing includes, but is not limited to, keeping current with dues and other payments to NHA and acting in a manner not prejudicial to the best interests of NHA or its members. The Board of Directors shall have the power to suspend or expel any member, for cause, which may include a violation of any provision of these bylaws.

ARTICLE IV. Board of Directors

Section 1. Composition.

- A. The members of the Board of Directors shall be:
 - 1. The 20 elected Directors;
 - 2. The Chief Executive Officer;
 - 3. The General Counsel;
 - 4. The three most recent Past Chairmen;
 - 5. Up to five (5) additional persons, appointed by the Board of Directors, for no more than a one-year period.
- B. Voting Rights of Directors. Only the 20 elected Directors and the immediate Past Chairman have the right to vote.

Section 2. Nomination and Election of Voting Directors.

- A. Nomination.
 - 1. Eligibility for office as a voting Director.
 - a. Only individuals of Generator, Service Industry, or Supporting grade members of NHA in good standing shall be eligible to be nominated, elected or serve as a voting Director.
 - b. Individuals from a member company with a representative already serving as a voting Director shall not be eligible to be nominated, elected or appointed to serve as a voting Director during the same term.
 - c. No Director shall serve more than eight (8) consecutive years as an elected Director.
 - 2. The Chairman shall appoint a Nominating Committee of five (5) members of the Board of Directors in consultation with the Executive Committee, and shall designate one member to serve as Chair of the Committee. The members shall serve staggered two-year terms. The Chairman and Chief Executive Officer shall serve as advisory members of the Nominating Committee.
 - 3. The Nominating Committee shall propose no less than ten (10) and no more than twelve (12) nominees to the Board of Directors for its consideration as candidates to be submitted to the membership for election to the Board.
 - 4. The Nominating Committee shall solicit recommendations from the NHA membership for nominations for Board candidates.
 - 5. The Board of Directors shall approve a list of ten (10) candidates for election to the Board of Directors, no more than two (2) of whom may be incumbent voting Directors.
 - 6. The consent of each candidate must be obtained before his or her name is placed on the ballot for election.

7. If sufficient candidates withdraw their names from the election so that the total number of candidates is less than the number of seats to be filled, any unfilled seat shall be treated as a vacancy and filled by an election by the Board of Directors.
8. Representation. So far as possible, the Board of Directors should include:
 - a. Representation from the following industry groups:
 - 1) Manufacturers and suppliers.
 - 2) Developers.
 - 3) Consultants and engineers.
 - 4) Industry.
 - 5) Municipalities.
 - 6) Public and private utilities.
 - 7) Independent power producers.
 - 8) Contractors.
 - b. Representation should be as regionally balanced as possible, without excluding any member on that basis alone.

B. Elections.

1. Election of Directors may be conducted by mail, electronic voting, or other such method as determined by the Board of Directors,
2. Election shall be by ballot. Ballots shall be sent no later than twenty-one (21) days prior to the date of the fall Board of Directors meeting.
3. Members shall vote for five of the ten nominees. The five candidates receiving the highest vote totals shall be deemed elected.
4. In the event there is a tie for the fifth Board position, that Board position is deemed to be vacant. By election of the Board of Directors, with a minimum of eleven (11) affirmative votes, the vacancy shall be filled from among those nominees who tied for the fifth Board position.

Section 3. Term of Office. An elected Director's term of office shall begin on January 1 and shall be for a period of four (4) years.

Section 4. Vacancy in Office.

- A. Any Director who no longer meets the eligibility for office requirements provided by these bylaws or who submits to the Chairman a notice of resignation from the Board shall cease to be a member of the Board of Directors creating an immediate vacancy.
- B. A vacant Board position shall be filled by election by the Board of Directors within a reasonable time. Prior to any such election, the Executive Committee shall prepare a list of nominees for the Board's consideration to fill the vacancy.
- C. A Director elected to fill a vacancy shall hold office for the remainder of the term of the Director whose Board position has been vacated.

Section 5. Authority and Responsibility.

- A. The Board of Directors shall be the governing body of NHA and shall have responsibility for its general supervision and strategic direction. In fulfilling this responsibility, the Board of Directors shall have the authority to:
1. Hold meetings at such times and places as it thinks proper.
 2. Admit, suspend or expel members.
 3. Print and circulate documents and publish articles.
 4. Retain a President who shall be NHA's chief executive officer ("Chief Executive Officer") and other officers as necessary, and shall appoint a General Counsel.
 5. Establish bank accounts as may be necessary to carry out the purposes of NHA.
 6. Devise and carry out such other measures as it deems proper to promote the objectives of NHA.
 7. Elect the Board Officers at the fall Board meeting and fill any vacancies in office as needed.
 8. Have the authority to adopt special rules of order or standing rules to govern its own proceedings.
 9. Establish business and financial policies and procedures consistent with sound business practices.

Section 6. Meetings.

- A. Regular.
1. At least four regular meetings of the Board of Directors shall be held each year. At least twenty (20) days' notice shall be given each member of the Board of Directors.
 2. The meetings shall be held at times and places to be determined by the Board of Directors.
 3. Any NHA member in good standing may attend meetings of the Board of Directors.
- B. Special. Special meetings of the Board of Directors may be called by the Chairman or upon written request of five (5) Directors. At least ten (10) days' notice shall be given each member of the Board of Directors.

Section 7. Ratification of Board Action. Any action that is not supported by the vote of at least eleven (11) Directors shall be submitted to the full Board by mail or electronic mail within ten (10) days for ratification.

Section 8. Action Without Meeting. Except for actions requiring two-thirds (2/3) majority vote, any action required or permitted to be taken at any meeting of the Board of Directors may be taken without a meeting, through other means of direct communication.

Section 9. Quorum. Eleven (11) voting members of the Board of Directors participating in the meeting either in person or by other means of direct communication

shall constitute a quorum, provided however that such direct communications shall not include the granting of a proxy by one Director to another.

ARTICLE V. Board Officers

Section 1. Elected Officers. The elected Board officers of NHA shall be a Chairman, a Vice Chairman, a Secretary, and a Treasurer.

Section 2. Appointed Officers. Appointed Board officers shall be the Chief Executive Officer and the General Counsel who shall be the chief legal officer of NHA. The Chief Executive Officer and General Counsel shall attend all meetings of the Board of Directors and Executive Committee in an advisory capacity.

Section 3. Nomination and Election of Officers.

A. Qualifications.

1. Nominees for the offices of Chairman and Treasurer shall be individuals who during the term of office for which they are nominated shall be one of the twenty (20) elected Directors and shall have served on the Board as an elected or advisor Director for at least one year during the seven years prior to their prospective term of office.
2. Nominees for the offices of Vice Chairman and Secretary shall be individuals who during the term of office for which they are nominated shall be one of the twenty (20) elected Directors.
3. Nominees for elected offices must be an individual of a company or organization, during their term of office, which is a Generator or Service Industry or Supporting member of NHA.

B. Nominations. The Nominating Committee shall provide a slate of candidates for Board officers.

C. Representation. In developing a slate of candidates, the Nominating Committee shall consider the following:

i. Representation from the following industry groups:

1. Manufacturers and suppliers.
2. Developers.
3. Consultants and engineers.
4. Industry.
5. Municipalities.
6. Public and private utilities.
7. Independent power producers.
8. Contractors.

ii. Representation should be as regionally balanced as possible, without excluding any member on that basis alone.

D. Nominations for elected Board officers may also be made by a Director at the summer and fall Board meetings.

- E. Elections. Elections of officers shall take place at the fall Board of Directors meeting with a quorum of Board members present. A majority vote of the Directors shall constitute election.

Section 4. Term of Office. All elected officers shall take office on January 1 and shall serve for one year. An officer may be removed for cause at any time by the vote of two-thirds (2/3) of the Board of Directors at a meeting of which at least 10 days' notice of such removal issue has been given, and shall automatically lose their office if his or her membership or the membership of their organization lapses for any reason as provided in these bylaws.

Section 5. Duties of Officers. Officers shall perform the duties provided in this section and such other duties as are prescribed for the office in these bylaws and in the adopted parliamentary authority.

A. The Chairman shall:

1. Be the Chairman of the Board of Directors and be an official spokesperson of NHA.
2. Preside at the meetings of the membership, the Board of Directors, and the Executive Committee.
3. Appoint the chair and co-chairs of all Standing Committees and Councils, with consultation with the Executive Committee.
4. Be a member of all committees, with the exception of the Nominating Committee of which he or she serves as an advisor.
5. Make recommendations to the members and the Board of Directors at the annual meeting and at other appropriate times on ways to promote the goals of NHA.
6. Fulfill such other duties as may be assigned by the Executive Committee or the Board of Directors.

B. The Vice Chairman shall:

1. Assist the Chairman and preside at meetings in the absence of the Chairman.
2. Serve as acting Chairman until a new Chairman is selected by the Board of Directors, if a vacancy occurs in the office of Chairman.
3. Fulfill such other duties as may be assigned by the Chairman, the Executive Committee or the Board of Directors.

C. The Secretary shall:

1. Record the minutes of Board of Directors meetings and Executive Committee meetings.
2. Provide copies of the minutes of the Board meetings to each member of the Board and to such other persons as may be directed by the Chairman or the Board of Directors.
3. Furnish a copy of the minutes of Executive Committee meetings to each member of that committee and to the Chief Executive Officer.
4. Fulfill such other duties as may be assigned by the Chairman, the Executive Committee or the Board of Directors.

- D. The Treasurer shall:
1. Monitor the financial affairs of NHA.
 2. Make financial reports at each meeting of the Board of Directors and to the Executive Committee when requested.
 3. Submit an audited annual report at the annual meeting.
 4. Deliver to his or her successor all books and records.
 5. Fulfill such other duties as may be assigned by the Chairman, the Executive Committee or the Board of Directors.
- E. Delegation of Duties. The Board officers may from time to time delegate the performance of their duties outlined in this section to the Chief Executive Officer, or with consultation with the Chief Executive Officer, to other salaried NHA employees, but in any case such Board officer shall remain responsible for assuring that his or her assigned duties are properly discharged.

ARTICLE VI. Executive Committee of the Board

Section 1. Composition. Members of the Executive Committee shall be the elected Board officers and the immediate Past Chairman. The Chief Executive Officer and General Counsel shall attend Executive Committee meetings in an advisory capacity.

Section 2. Duties. The Executive Committee shall:

- A. Have general supervision of the affairs of NHA between meetings of the Board of Directors.
- B. Conduct business that may be referred to it by the Board of Directors.
- C. Consult on committee, council and other appointments by the Chairman as provided in these bylaws.
- D. Formulate recommendations and policies to be submitted for approval by the Board of Directors
- E. Have the authority to adopt special rules of order or standing rules to govern its own proceedings.
- F. Perform such other duties as defined in these bylaws or as specified by action of the Board of Directors or the membership at a general meeting.

Section 3. Meetings. Meetings of the Executive Committee shall be at the call of the Chairman, or at the request of three (3) members of the committee. At least five (5) days' notice shall be given each member of the committee, except for a meeting called during a session of the Board of Directors or at a membership meeting.

Section 4. Business.

- A. Business may be conducted by mail, electronic mail or telephone conference when necessary.

- B. Action taken by mail, electronic mail or telephone conference shall be ratified and made a part of the minutes of the next meeting of the Executive Committee.

Section 5. Quorum. Three (3) members, including at least the Chairman or Vice Chairman, of the Executive Committee shall constitute a quorum.

ARTICLE VII. Member Meetings

Section 1. Annual Meeting. An annual meeting of members shall be held each year in conjunction with the NHA conference. The purpose of the meeting shall be to inform the membership of the association's activities and to transact any business that may be properly brought before the meeting.

Section 2. Special Meetings. A special meeting of members may be called by the Board of Directors or upon written petition of twenty percent (20%) of the membership. Special meetings called as a result of written petition shall be held within 60 days of receipt of such petition.

Section 3. Time and Place. Notice of every meeting of members stating the location, date and time of the meeting, shall be sent to the address of each member as it appears on the records of NHA not less than 30 days (except special meetings called by petition) prior to the meeting.

Section 4. Quorum. The presence of 45 Generator or Service Industry or Supporting members of NHA shall constitute a quorum for the taking of votes. The Chairman, or a majority of Directors present, may direct that matters be submitted to the membership for vote.

Section 5. Voting. The voting rights of members shall be as stated in Article III. The affirmative vote of a majority of the votes entitled to be cast, by the members entitled to vote and present or represented by proxy at a meeting at which a quorum is present, shall be necessary for the adoption of any matter voted upon by such members, unless a greater proportion is required by law.

ARTICLE VIII. Committees

Section 1. Committee Appointment. The Chairman shall appoint the chair and co-chairs of all committees and councils or as otherwise provided in these bylaws.

Section 2. Standing Committees.

- A. The Board of Directors shall review the organization of established Standing Committees periodically.

- B. An annual strategic plan, developed in consultation with the Standing Committees, shall be adopted annually by the Board outlining the goals and initiatives of the Standing Committees.
- C. Committee Members. Committee membership shall be open to all Generator, Service and Supporting Grade members of NHA, and to such other NHA members as may be directed by the Board. The Chairman shall be a member of all committees.
- D. Written reports of committee work, including the Executive Committee, shall be provided to the Board of Directors at each Board meeting, unless excused by the Chairman or Chief Executive Officer.
- E. No member shall serve as chairman of more than one Standing Committee.

Section 3. Special Committees and Councils.

- A. The Board of Directors may create special committees and councils as it deems appropriate.
- B. Unless otherwise directed by the Board of Directors, the Chairman shall appoint the leadership and members of special committees and councils.

ARTICLE IX. Headquarters

Section 1. Location. The headquarters of NHA shall be located in the Washington, DC, metropolitan area at a place approved by the Board of Directors.

Section 2. Headquarters Staff.

- A. Composition. The headquarters staff of NHA shall be comprised of the Chief Executive Officer and additional staff as needed.
- B. Duties.
 - 1. The Chief Executive Officer shall:
 - a. Have responsibility for the day-to-day management and activities of NHA under direction of the Chairman. The Chief Executive Officer shall be an official spokesperson of NHA.
 - b. Engage additional staff required for the operations of NHA.
 - c. Maintain job descriptions for all personnel employed on behalf of NHA.
 - d. Have the authority to waive, subject to the concurrence of the Executive Committee, established distinctions between grades of membership for good cause.
 - e. Coordinate the distribution of meeting notices, meeting minutes and other communications to the Executive Committee, Board of Directors, and the general membership.
 - f. Have custody and control of the official seal subject at all times to the orders, instructions and control of the Board of Directors.

- g. Adhere to NHA’s business and financial policies and procedures.
 - h. Fulfill such other duties as may be assigned by the Chairman, the Executive Committee or the Board of Directors.
2. Additional Staff. The duties of all other headquarters staff shall be defined by the Chief Executive Officer. All such staff shall be under the direction of the Chief Executive Officer.
- C. Employment of Chief Executive Officer and General Counsel. The Chief Executive Officer and General Counsel shall be employed or discharged by the Board of Directors.
 - D. Compensation. Compensation for the CEO will be established by the Board of Directors.
 - E. Bonding. All personnel employed by NHA who have authority to disburse funds may be bonded to levels determined by the Board of Directors.

ARTICLE X. Fiscal Policies

Section 1. Limitations on the Use of NHA Funds. All NHA funds must be used for the purposes of NHA and shall not inure to the benefit of any member, officer, or director.

Section 2. Supplemental Contributions. In addition to annual dues, members may make supplemental contributions to NHA. The contribution may be designated by the member for a specific purpose.

Section 3. Handling of Funds.

- A. Disbursements shall be made by the Chief Executive Officer or NHA staff, as designated by the Chief Executive Officer.
- B. NHA funds shall be deposited in a bank or banks or trust company approved by the Board of Directors.
- C. Records. Financial books and records of NHA shall be supervised at all times by the Board of Directors and shall be subject to its inspection and control.

Section 4. Separate Accounts. The Board of Directors may allocate annual dues and supplemental contributions to separate, segregated amounts for the different activities of NHA.

Section 5. Budget. A proposed budget shall be prepared annually by the Chief Executive Officer, reviewed by the Executive Committee, and submitted by the Chief Executive Officer to the Board of Directors for consideration, recommendations and approval. The annual budget for the following year shall be adopted by the Board of Directors before the end of the current fiscal year.

Section 6. Audit. The financial records of NHA shall be audited annually and at other times as requested by the Executive Committee or the Board of Directors. All audit reports shall be approved by the Board of Directors.

Section 7. Fiscal Year. The fiscal year for NHA shall begin on January 1 and end on December 31.

ARTICLE XI. Diversity, Equity and Inclusion

NHA and its Board of Directors are committed to incorporating the values of diversity, equity and inclusion in the governance and operations of this association. These values shall be codified in a diversity, equity and inclusion policy adopted by the Board of Directors.

ARTICLE XII. Contract and Indemnification

Section 1. No Personal Liability. No contract entered into by or on behalf of NHA shall personally obligate any NHA member, officer, director or employee authorizing such contract or executing same.

Section 2. Indemnification. Every director, officer, or employee shall be indemnified by NHA against all expenses and liabilities, including counsel fees, reasonably incurred or imposed upon him or her in connection with any proceeding to which he or she may be made a party, or in which he or she may become involved, by reason of his or her being or having been a director, officer, or employee of NHA, or any settlement thereof, whether or not he or she is a director, officer, or employee of NHA at the time such expenses are incurred.

Notwithstanding the foregoing, the indemnification provided in this section shall only apply if the indemnified party acted in good faith and in a manner reasonably believed to be in or not opposed to the best interests of NHA, and with respect to any criminal proceeding, had no reasonable cause to believe the conduct was unlawful. Moreover, the indemnification shall not apply in cases wherein the director, officer, or employee is adjudged guilty of willful misfeasance or malfeasance in the performance of his or her duties. The foregoing right of indemnification shall be in addition to and not exclusive of all other rights to which such director, officer, or employee may be entitled. For purposes of the preceding right of indemnification the term “director, officer, or employee” shall be construed to include all executives, Board members, and staff employees, whether salaried or not. The Board shall have the right to approve the selection of counsel retained by the indemnified party and shall also have the right to approve any settlements (or require settlements) to resolve claims or actions giving rise to indemnification under this Section.

NHA may supplement the right of indemnification specified above by purchase of insurance, indemnification agreements and advances for related expenses of any person indemnified.

ARTICLE XIII. Dissolution

Section 1. Dissolution. NHA may be dissolved upon a vote of members representing two-thirds (2/3) of the total votes of the membership entitled to vote at a duly called meeting of members.

Section 2. Distribution of Assets. Upon the termination, dissolution or other ending of NHA in any manner or for any reason, its assets, if any, remaining after payment (or provision for payment) of all liabilities of NHA shall be distributed to, and only to, one or more corporations, funds or foundations, qualified for exemption from federal income taxation under either (I) Section 501(c)(6) of the Internal Revenue Code of 1954, as amended, and organized and operated for one or more of the purposes enumerated in Article THIRD of the Articles of Incorporation or (ii) Section 501(c)(6) of the Internal Revenue Code of 1954, as amended, as may be determined by the Board of Directors.

ARTICLE XIV. Official Seal

The Official seal of NHA shall be in the form of a circle and shall set forth the name of the association, the year of its organization and the words “CORPORATE SEAL, DISTRICT OF COLUMBIA.”

ARTICLE XV. Parliamentary Authority

The rules contained in the current edition of Roberts Rules of Order Newly Revised shall govern the proceedings of NHA in all cases to which they are applicable and in which they are not inconsistent with these bylaws and any special rules of order that NHA may adopt.

ARTICLE XVI. Amendment of Bylaws

Section 1. Power to Amend. The power to alter, amend or repeal these bylaws shall be vested in the Board of Directors.

Section 2. Notice. Copies of proposed amendments to these bylaws shall be furnished to the Board of Directors at least ten (10) days in advance of a regular or special meeting of the Board of Directors.

Section 3. Approval of Amendments. Approval of amendments to these bylaws shall require a majority affirmative vote of the voting Directors as defined in Article IV, Section 1.B. herein.

NHA 2023 Executive Committee - Updated October 2023							Term
Michael	Haynes, Chair	Seattle City Light	700 5th Avenue, Suite 3200/ P.O. Box 34023	Seattle, WA 98124-4023	mike.haynes@seattle.gov	(206) 684-3618	2023
Pamala	Sullivan	American Municipal Power, Inc.	1111 Schrock Rd., Ste. 100	Columbus, OH 43229	psullivan@amppartners.org	(614) 540-0971	2024
Sharon	White, Secretary	Rock Creek Energy Group	1 Thomas Circle NW, Suite 700	Washington, DC 20005	swhite@rockcreekenergygroup.com	(202) 998-2775	2024
Thomas	St. John, Treasurer	Alabama Power	600 N 18th Street	Birmingham, AL 35219	TWSTJOHN@southernco.com	(205) 918-6669	2025
Jay	Anders, Past Chair	Anders Hydropower Consulting	5172 Eaglefeather Ln.	Ooltewah, TN 37363	janders@southern.edu	(423) 362-2647	
James	Hancock, Counsel	Balch & Bingham LLP	1710 6th Avenue North - Eleventh floor	Birmingham, AL 35203	Jhancock@balch.com	(205) 226-3418	
Malcolm	Woolf, CEO	National Hydropower Association (NHA)	200 Massachusetts Ave NW Suite 320	Washington, DC 20001	mwoolf@hydro.org	(202) 750-8399	
Board							
Carl	Atkinson	Voith Hydro Inc.	P.O. Box 15022 / 760 East Berlin Rd.	York, PA 17405	Carl.Atkinson@voith.com	(717) 792-7891	2023
Suzanne	Biddle	Tennessee Valley Authority (TVA)	1101 Market Street	Chattanooga, TN 37402	sbiddle@tva.gov	(865) 254-1081	2026
Suzanne	Grassell	Chelan County PUD	327 N. Wenatchee Ave.	Wenatchee, WA 98801	suzanne.grassell@chelanpud.org	(509) 661-4177	2024
Scott	Hennessey	Brookfield Renewable Energy Group (US)	6307 Marywood Rd.	Bethesda, MD 20817	scott.hennessey@brookfieldrenewable.com	(917) 561-5967	2023
Randy	Herrin	Duke Energy Corporation	257 Duke Lane	Stanley, NC 28164	randy.herrin@duke-energy.com	(704) 812-1154	2023
Sarah	kulpa	HDR	440 S. Church Street, Suite 1200	Charlotte, NC 28202	sarah.kulpa@hdrinc.com	(315) 415-8703	2025
Jeffrey	Leahey	SMI, Inc. (Strategic Marketing Innovations)	1020 19th St. NW #375	Washington, DC 20036	jeff@strategicmi.com	(202) 683-2358	2024
Chris	Mattson	Tacoma Power	3628 South 35th Street	Tacoma, WA 98409	cmattson@cityoftacoma.org	(253) 208-6141	2026
Alan	Michaels	New York Power Authority (NYPA)	30 South Pearl Street	Albany, NY 12207	alan.michaels@nypa.gov	(518) 801-6018	2026
Megan	Nesbitt	Andritz	10735 David Taylor Dr, Suite 500	Charlotte, NC 28262	megan.nesbitt@andritz.com	(704) 943-4343	2025
Christopher	Rousseau	J.F. Brennan Company	826 Wolner Drive	Cloquet, MN 55720	crousseau@JFBrennan.com	(218) 393-5585	2026
Charles	Sensiba	Troutman Pepper Hamilton Sanders LLP	401 9th Street, N.W., Suite 1000	Washington, DC 20004	charles.sensiba@troutman.com	(202) 274-2850	2025
Mary Gail	Sullivan	Northwestern Energy	11 East Park Street	Butte, MT 59701	marygail.sullivan@northwestern.com	(406) 497-3382	2023
Justin	Trudell	FirstLight Power	111 South Bedford St., Suite 103	Burlington, MA 01803	justin.trudell@firstlightpower.com	(781) 653-4247	2024
Eric	Van Deuren	Pacific Gas & Electric Co	1649 Canal Street	Auburn, CA 95603	Eric.VanDeuren@pge.com	(916) 208-7409	2025
Heidi	Wahto	Stantec	2353 130th Ave NE, Ste 200	Bellevue, WA 98005	heidi.wahto@stantec.com	(425) 602-3514	2026
Advisory Board							
Joel	Ledesma	SMUD	7606 River Ranch Way	Sacramento, CA 95831	jledesma1@sbcglobal.net	(916) 956-3830	
Romain	Pellegrino	GE Renewable Energy	5005 Boul. Lapiniere BP 75	Brossard QC J4Z 0N5 Canada	romain.pellegrino@ge.com	(438) 342-5182	
Rich	Wallen	Grant County PUD	P.O. Box 878	Ephrata, WA 98823	rwallen@gcpud.org	(509) 754-6744 ext. 2515	
NHA Staff							
Malcolm	Woolf, CEO	President and CEO			mwoolf@hydro.org	(301) 767-6698	
Matthew	Allen	Director of Legislative Affairs			matthew@hydro.org	(202) 993-0660	
Marla	Barnes	VP of Membership and Industry Engagement			marla@hydro.org	(816) 588-4639	
Francesca	Hadjimichael	Director of Meetings and Events			francesca@hydro.org	(202) 740-8068	
Kimberly	Costner	Director of Operations			kimberly@hydro.org	(202) 378-3114	
Jeremy	Chase-Israel	Content Development Specialist			Jeremy@hydro.org	(339) 368-2255	
Joseph	LoSasso	Sales and Membership Engagement Manager			joseph@hydro.org	(202) 697-2404	
Brittney	May	Legislative Affairs Manager			Brittney@hydro.org	(202) 897-8580	
Connor	Nelson	Regulatory and Markets Specialist			connor@hydro.org	(301) 821-1405	
Michael	Purdie	Director of Regulatory Affairs and Markets			michael@hydro.org	(703) 851-1257	
Kelly	Rogers	Manager, Policy and Communications			kelly@hydro.org	(202) 740-0248	
Sydney	Rovner	Program Assistant			sydney@hydro.org	(301) 821-2037	
Ellie	Rubalow	Events Specialist			Ellie@hydro.org	(703) 389-2537	
Catherine	Ryan	Program Specialist			Catherine@hydro.org	(202) 805-5057	
Copeland	Tucker	Director of Public Affairs			copeland@hydro.org	(771) 216-4699	
Barbara	Tyran	Director of External Relations			barbara@hydro.org	(202) 262-1323	
NHA Consultant							
Chris	Hayes	Senior Advisor of Technical Programs			Chris@hydro.org	(514) 795-8413	

2023 NHA Committee and Council List

Committee Leadership	First Name	Last Name	Organization Name	Email	Phone
Hydropower Technical Community - Chair	Thomas	Fitzgerald	Schnabel Engineering	tfitzgerald@schnabel-eng.com	(336) 314-8772
Hydropower Technical Community - Vice Chair	Phil	Cantarinha	Yuba	pcantarinha@yubawater.org	(530) 741-5000
HTC Advisory Leadership Member	Ellen	Faulkner	Ayres Associates	faulkner@ayresassociates.com	(715) 559-0779
HTC Advisory Leadership Member	Jim	Miller	Signal Hydropower Consultants, LLC	ljmiller-sec@epbfi.com	(423) 521-4406
HTC Advisory Leadership Member	Raymond	Chow	Duke Energy Corporation	raymond.chow@duke-energy.com	(704) 382-6041
HTC Advisory Leadership Member	Jennifer	Erickson	Columbia Industrial Products, Inc. (CIP)	jennifer@cipcomposites.com	(541) 607-3656
HTC Advisory Leadership Member	Daniel	Langlois	GE Renewable Energy	daniel.langlois@ge.com	(450) 522-0755
HTC Advisory Leadership Member	Scott	Klabunde	HydroPartners	sklabunde@Hydropartners.onmicrosoft.com	(920) 570-2156
Hydropower Technical Community - Dam Safety Subcommittee - Chair	Seth	Green	Southern Company	sjgreen@southernco.com	(205) 257-6607
Hydropower Technical Community - Dam Safety Subcommittee - Vice Chair	Jillian	Lawrence	Hull Street Energy	jlawrence@hullstreetenergy.com	(856) 906-0180
Hydropower Technical Community - OpEx Subcommittee - Chair	Carl	Brewster	WEST USA, Inc. Water Energy Systems & Tests	carl.brewster@west-hydro.com	(855) 937-8871
Hydropower Technical Community - OpEx Subcommittee - Vice Chair	Scott	Korab	Ballard Marine Construction	scott.korab@ballardmc.com	(206) 753-0021
O&M Chair	Scott	Romero	U.S. Army Corps of Engineers	scott.f.romero@usace.army.mil	(252) 665-3191
O&M Vice Chair	Travis	Hart	Ameren Missouri	thart4@ameren.com	(573) 365-9340
NHA Rep	Chris	Hayes			
FLOW - Chair	Camille	Ellsworth	rPlus Energies	cellsworth@rplusenergies.com	(208) 340-6544
FLOW - Vice Chair	Norbert	Woodhams	Worthington Products	norbert@tuffboom.com	(330) 316-8579
NHA Rep	Kelly	Rogers			
Legislative Affairs - Chair	Clark	Mather	Tacoma Power	cmather@cityoftacoma.org	(253) 441-4159
Legislative Affairs - Vice Chair	Annette	Price	Pacificorp	annette.price@pacificorp.com	(971) 284-6996
NHA Rep	Matthew	Allen			
Markets - Chair	Aleksandar	Mitreski	Brookfield Renewable Energy Group (US)	aleksandar.mitreski@brookfieldrenewable.com	(413) 636-5732
Markets - Vice Chair	Chris	Fry	New York Power Authority	Christopher.Fry@nypa.gov	(914) 287-3435
Markets - Vice Chair	Jamie	Simler	Ameren	jsimler@ameren.com	(202) 783-7606
NHA Rep	Michael	Purdie			
Public Affairs - Chair	Karrie	Carnes	Bonneville Power Administration (BPA)	klcarnes@bpa.gov	(503) 230-5575
Public Affairs - Vice Chair	Leonard	Greene	FirstLight	leonard.greene@firstlightpower.com	(781) 653-4240
Public Affairs - Vice Chair	Rachel	Hansen	Chelan County PUD	rachel.hansen@chelanpud.org	(509) 661-4320
NHA Rep	Copeland	Tucker			
Regional Meeting Committee - Chair	Jennifer	Moore	Mesa Associates, Inc.	jmoore@mesainc.com	(865) 740-3947
Regional Meeting Committee - Vice Chair	Emily	Schwartz	Black & Veatch	SchwartzE@BV.com	(512) 351-4910
Regional Meeting Committee - Vice Chair	Ginger	Gillin	GEI Consultants	ggillin@geiconsultants.com	(406) 240-3231
NHA Rep	Francesca	Hadjimichael			
Regulatory Affairs Committee - Chair	Jenna	Mandell-Rice	Van Ness Feldman	jrm@vnf.com	(206) 623-9372
Regulatory Affairs Committee - Vice Chair	Nuria	Holmes	SWCA Environmental Consultants	Nuria.Holmes@SWCA.com	(503) 380-9888
Regulatory Affairs Committee - Vice Chair	David	Zayas	Idaho Power	dzayas@idahopower.com	(202) 836-1747
NHA Rep	Michael	Purdie			

2023 NHA Committee and Council List

Council Leadership	First Name	Last Name	Organization Name	Email	Phone
CEO Council - Chair	Tom	Sullivan	Gomez and Sullivan	tsullivan@gomezandsullivan.com	(603) 496-9389
CEO Council - Chair	Randy	Herrin	Duke Energy	randy.herrin@duke-energy.com	(704) 798-2089
NHA Rep	Malcolm	Woolf			
Marine Energy Council - Chair	Paul	Gay	SMI, Inc. (Strategic Marketing Innovations)	paul@strategicmi.com	(202) 683-2359
Marine Energy Council - Chair	John	Ferland	ORPC, Inc.	jferland@orpc.co	(207) 358-4990
Marine Energy Council - Chair	Samantha	Quinn	Pacific Ocean Energy Trust (POET)	s.quinn@pacificoceanenergy.org	(303) 945-9601
Marine Energy Council - Secretary	Brenda	Langley	Pacific Marine Energy Center (PMEC)	brenda.langley@oregonstate.edu	(541) 737-4390
MEC Work Groups					
Regulatory Affairs	Tim	Acker	BioSonics	tacker@biosonicsinc.com	(206) 782-2211
	Michael	Murphy	Stantec	michael.e.murphy@stantec.com	(207) 837-2724
Vision	Gabriel	Alsenas	Florida Atlantic University	galsenas@fau.edu	(561) 297-0954
	Reenst	Lesemann	Columbia Power Technologies (C-Power)	rlesemann@cpower.co	(434) 220-6127
	Jason	Busch	Pacific Ocean Energy Trust (POET)	jbusch@pacificoceanenergy.org	(503) 729-2253
Industry Priorities	Jonathan	Colby	Streamwise Development	streamwisedev@gmail.com	(404) 694-1434
	Walter	Schurtenberger	Hydrokinetic Energy Corp	ws@hydrokinetic-energy.com	(305) 296-2773
Legislative Affairs	Chris	Lee	Tidal Energy Corp	chrisdlee1@icloud.com	(504) 875-8223
	George	Bonner	Coastal Studies Institute	ggbonner@ncsu.edu	(757) 719-0702
	Kristi	Terrasa	C-Power	kterrasa@cpower.co	
NHA Rep	Kelly	Rogers			
Pumped Storage Development Council - Chair	Todd	Briggeman	Black & Veatch Corporation	briggemantj@bv.com	(913) 458-3117
Pumped Storage Development Council - Vice Chair	Kelly	Larimer	Kleinschmidt	kelly.larimer@kleinschmidtgroup.com	(509) 260-0151
Pumped Storage Development Council - Vice Chair	Preston	Pierce	Duke Energy	preston.pierce@duke-energy.com	(727) 409-0450
NHA Rep	Barbara	Tyran			
Small Hydro Council Chair	Emily	Morris	Bowersock Mills	emily@emrgy.com	(855) 459-1818
Small Hydro Council Co Vice Chair	Jon	Petrillo	Gravity Renewables	jon@gravityrenewables.com	(203) 623-4637
Small Hydro Council Co Vice Chair	Ushakar	Jha	Rye Development	ushakar@ryedevelopment.com	(864) 320-9293
NHA Rep					
Waterpower Innovation Council - Chair	Miles	Hall	Natel	miles.hall@natelenergy.com	(503) 729-3012
Waterpower Innovation Council - Vice Chair	Erin	Foraker	USBR	eforaker@usbr.gov	(720) 320-2201
Waterpower Innovation Council - Vice Chair	Debbie	Mursch	GE Renewable Energy	debbie.mursch@ge.com	(414) 828-9640
NHA Rep	Chris	Hayes			