

Activities of NHA Programs

October 10, 2023

ADVOCACY

LEGISLATIVE

Hydropower Licensing Reform – Both hydropower licensing reform bills continue to make progress in both the House and Senate. On Wednesday, July 19, the Senate Energy and Natural Resources Committee will be holding a legislative hearing on S. 1521, the Community and Hydropower Improvement Act, along with other energy bills. On September 20, the House Energy and Commerce Committee held a legislative hearing on H.R. 4045, the Hydropower Clean Energy Future Act.

Legislative hearings are the first step in the legislative process, and the fact that both bills are moving is a strong signal that there is bipartisan support for hydropower licensing reform. This progress, independent of a larger energy permitting package, shows the strength of each bill and the support they enjoy in their respective chambers.

We are hopeful that the Senate bill will receive a markup at the next Senate Energy and Natural resources business meeting scheduled for November 2nd. It is also expected that the House will mark up their bill at some point over the next several months. From there, the bill sponsors would look to secure time to get each bill to the floor for a vote.

Additionally, on September 28, The Permitting Institute (NHA is a member of TPI) hosted a Permitting University event, organized as a lunch and learn policy forum, on Capitol Hill focusing on hydropower licensing reform. The forum featured representatives from NHA members Eagle Creek Renewables and Berkshire Hathaway Energy on behalf of PacifiCorp, as well as former FERC Commissioner Phil Moeller and Mary Pavel of Sonosky Chambers Sachse Endreson & Perry, was a lead negotiator on the S. 1521 Community and Hydropower Improvement Act package. The briefing was highly productive and key staff were in attendance. Sen. Daines also stopped by to kick off the event and gave a brief set of remarks.

Hydropower legislative champions Sens. Daines and Cantwell, and Chairwoman Rodgers all received NHA hydropower awards during Waterpower Week for their efforts to protect, preserve, and expand

hydropower production. NHA is working in lockstep with their offices as these bills move throughout the legislative process.

Tax Credit for Environmental Improvements and Safety Upgrades at Existing Hydropower Facilities – On September 28, Senators Cantwell (D-WA) and Murkowski (R-AK) reintroduced their legislation that would create an investment tax credit for safety and environmental upgrades at existing hydropower facilities. The Maintaining and Enhancing Hydroelectricity and River Restoration Act, S. 2994, has 5 additional bipartisan cosponsors who include Sens. Stabenow (D-MI), Sullivan (R-AK), Gillibrand (D-NY), Tillis (R-NC) and King (I-ME). This incredibly strong bipartisan showing will be key to securing our place in a year-end tax deal.

Over the summer, the Legislative Affairs Committee stood up a subcommittee to support the NHA hydropower ITC efforts. After the Senate bill introduction this September, the subcommittee is now working to find a Republican Ways and Means Committee member to co-lead the ITC on the House-side with one or more Democratic Representatives. Democratic representatives Anne Kuster (D-NH) and Suzanne DelBene (D-WA) have expressed interest in supporting the package again.

Clean Water Act Reform – The NHA Legislative Committee is also coordinating with the NHA Regulatory Committee on Clean Water Act reforms. NHA had a very positive meeting with Senate Environment and Public Works Committee Republican staff about the proposed language in the RESTART Act (S. 1449) sponsored by Ranking Member Sen. Capito (R-WV). NHA shared its reform proposed language with staff that was a result of the Deep Dive Policy Committee efforts from earlier in the summer.

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.

One issue of particular note is that of the 45V hydrogen production tax credit, and efforts by the administration to impose additionality requirements on the credit. We expect there to be a hearing on hydrogen this fall on the Senate Energy and Natural Resources Committee where NHA should have an opportunity to provide its views.

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 is continuing to advocate on behalf of the industry for beneficial treatment under the Inflation Reduction Act. Since the last board meeting, NHA has:
 - Met multiple times with Treasury, White House, Department of Energy staff on domestic content, 45X, 45V, and elective pay issues
 - NHA has filed comments on domestic content guidance and the elective pay Notice of Proposed Rulemaking.
- Staff has been working with K&L Gates on a policy proposal for the 80/20 rule. This rule would allow hydropower owners to elect the Inflation Reduction Act's credits after "repowering" the resource. NHA will have a finalized position to offer to Treasury in the fall.
- NHA has filed comments on the Endangered Species Act Notice of Proposed Rulemaking in August and Council on Environmental Quality's NEPA Phase 2 Rulemaking in September.

• NHA is working on litigation strategy regarding the Clean Water Act Section 401 final rule published in September.

ENERGY MARKETS

- The Markets Committee is continuing in monthly meetings as a clearinghouse of information to describe what is occurring in each of the FERC jurisdictional markets.
- This process has led to connections being made between members in similar jurisdictions and has created subgroups in the PJM RTO and soon the NYISO RTO.
- NHA and its members are monitoring numerous design changes throughout the FERCjurisdictional markets such as capacity accreditation (PJM and ISO-NE), new day-ahead markets (CAISO and SPP), and reserve price formation (ISO-NE and NYISO).

MEMBER PROGRAMS

<u>HYDROPOWER TECHNICAL COMMUNITY (HTC), WATERPOWER INNOVATION COUNCIL</u> (WIC), AND HYDRO ACADEMY



- Operational Excellence (OpEx) Online Resource Tool
 - New tool is live on the NHA Member Portal
 - 4 event reports received since July
- Asset Owner Forum
 - Now consists of three groups, open to asset owners that are NHA members:
 - Chief Dam Safety Engineers (CDSE) Roundtable
 - Operations and Maintenance (O&M) Roundtable
 - Senior Leaders Forum

WATERPOWER INNOVATION COUNCIL

• First Innovation Lunch and Learn held on September 27.

• 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.

- The Waterpower Research Portal (known as WaRP) contains 488 report entries from 52 organizations.
 - Research categories with high entry rates include:
 - Turbines
 - Dam Safety
 - Fish and Aquatic Resources
 - Hydraulic Forecasting
 - Water Management

<u>FLOW</u>

- 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.
- The September FLOW call featured a dialogue with former FERC Chairman Richard Glick. There was great attendance and engagement from FLOW members.
- Clean Currents will feature three key FLOW activities:
 - The Art of Public Speaking Workshop will be on Tuesday, October 10, 3:30-5:30 PM. This workshop will teach techniques to manage anxiety and boost confidence, explore strategies for distilling technical information into key themes, and learn how polishing public speaking skills can serve young professional in a multitude of situations.
 - FLOW Happy Hour on Tuesday, October 10, 6:00-8:00 PM, off-site at Tokyo Kitty. This ticketed event is open to FLOW members and young professionals under the age of 40.
 - FLOW member Meet-and-Greet with NHA staff and Board of Directors at NHA Booth in CC Central on Wednesday, October 11, 2:30-3:00 PM. Please plan to join this meet-and-greet with the FLOW group and endeavor to talk to people with the FLOW ribbon on their conference badge. This is a great way to meet other industry professionals as well as up-and-coming rising stars.
- The November FLOW call will have Kelly MacVane from HDR who will speak about Environmental Justice.
- FLOW leadership is starting to develop plans for Waterpower Week in 2024. The group would like to engage more Congressional staffers who are entering the workforce, and Waterpower Week will be a great conduit for this outreach.

Marine Energy Council

• Beginning work on Waterpower Week 2024 content development for people working in marine energy. NHA leadership has been performing listening sessions targeted to marine energy technology developers to better understand how to best represent them and provide tools/resources for the advancement of the marine energy sector through NHA events and programmatic work.

- The MEC is working to coordinate with international counterparts in the marine energy field such as Marine Renewables Canada and Ocean Energy Europe to aid in information-sharing and moving the marine energy resource forward globally
- Following the productive conversation with the DOE Water Power Technologies Office at Waterpower Week, the Vision Working Group is leading an effort to survey technology developers on their near-term and long term plans for components, systems and sub-systems R&D needs for their marine energy devices. Understanding these R&D needs and which components technology developers will be relying on the supply chain for is a key priority for the WPTO's Marine Energy Program.
- Regulatory Affairs Working Group is working on developing legislative language and a regulatory reform strategy for marine energy project licensing. The WG is also working to develop a task force with DOE WPTO to determine how WPTO could help expedite the process for early-stage deployments of marine energy technologies.
- Legislative Affairs Working Group is working in coordination with the Regulatory Affairs Working Group to map out the path for legislative action on regulatory reform for marine energy devices. The WG is also working to develop "model legislation" for state legislative action following the success of a California Wave and Tidal Energy bill and the promising movement of a New Jersey marine energy bill.
- Marine Energy Priorities Working Group is finalizing its third iteration of a survey to people working in the marine energy field to inform their third edition of the <u>Marine Energy Priorities</u> <u>Position Paper</u> to be published ahead of Waterpower Week 2024. The paper maps out and describes priorities for the marine energy sector.

Pumped Storage Development Council

- NHA has hired Barbara Tyran as part of the Board's strategic priority engagement to advocate for pumped storage in California. Barbara will lead NHA's engagement in forums where hydro's voice is not actively heard, including pumped storage advocacy. She will be staff support for the Pumped Storage Development Council.
- On September 5, 2023, NHA filed <u>comments</u> proposing amendments to California Assembly Bill 1373. This bill would create a central procurement entity housed within California Department of Water Resources. The bill creates a narrow pathway for a single pumped storage project to be eligible under the central procurement entity. NHA had advocated for a broader array of eligible projects.
- NHA is preparing to file comments on the California Integrated Resource Plan's final assumptions for input into modeling and PUC decision making. As this Board report was being prepared, the final input and assumptions document had not been finalized.

Small Hydro Council

- During the Alaska Regional Meeting, attendees toured two small hydropower facilities.
- Clean Currents There is an exciting tour of the City of Hamilton's small hydro facility and a panel discussion which will feature asset owners, ORNL, technology developers, and project developers discussing their unique perspective on small hydro projects and how to ensure we keep small hydro projects economical.
- 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.
- With the September monthly member call, the content plan for this year's Council calls has wrapped up. Each month, the Council discussed and had presentations on one project lifecycle phase, such as licensing, community engagement, construction, securing PPAs or RECs, etc. With the planned content done, the Council leadership team has discussed potential speakers for the next few months.
- Staying updated on the USACE's Sec. 408 implementation guidance. The industry submitted comments to the USACE on how the industry sees the most effective and efficient way to implement the Sec. 408 process based on enacted federal language in the WRDA 2022 law.
- 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

2023 NATIONAL EVENTS

Clean Currents Tradeshow + Conference



2023

Numbers as of 9.27.23

	Budget	Actuals to date	% of Actuals to Budget	Last Year at The Same # of Days Out from Event
Registration-	\$400,000	\$407,370	102%	\$388,703
Revenue				

Registration-	1,125	1,183	105%	1,054
Individuals				
Sponsorship	\$375,674	\$350,020	93%	\$282,745.00
Exhibits	\$1,189,000	\$1,323,180	111%	\$982,050.00

2024

- October 7 10, 2024
- Oregon Convention Center in Portland, Oregon
- Northwest Hydroelectric Association (NWHA), U.S. Army Corps of Engineers Hydroelectric Design Center, and PacifiCorp have expressed support and cooperation
- CC Central Floor plan finalized; exhibit space rebooking in process
- 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



	2022	2023
Registrants	477	590
Registration Revenue	\$311,609	\$404,948
Sponsors	20 companies	20 companies
Sponsorship Revenue	\$69,871	\$78,500
Speakers	124	133

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

- March 31 April 2, 2025
- Capital Hilton Hotel

Regional Meetings Update



2023 Leadership for Regional Meetings Series

Chair:

Jennifer Moore, Mesa Associates

Vice Chairs:

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

Numbers as of 9.27.23. The California Regional Meeting still to take place in December.

Regional Meetings	Budget	Actuals to date	% of Actuals to Budget
Registration-Revenue	\$65,000	\$74,875	115%
Registration-People	560	570	102%
Sponsorship Revenue	\$120,000	\$148,750	124%

National Level Sponsors, to date:

- American Babbitt Bearing
- American Hydro
- Andritz
- Ballard Marine Construction
- Black & Veatch
- Emerson
- GE Renewable Energy
- GEI Consultants
- HDR
- J.F. Brennan
- Kleinschmidt

- L&H Industrial
- Litostroj
- Mavel
- Mesa Associates
- Schnabel Engineering
- Stantec
- Thompson | HCMS
- Troutman Pepper
- TurbinePros
- Van Ness Feldman
- WSP

Specific Region Sponsors:

Midwest:

- BCI Construction
- Lemke Industrial
- Mead & Hunt

Northeast:

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

Construction Corporation

Alaska:

• Barnard

McMillen

Consultants

McMillen

• Northwest Hydraulic

California:

2024 Regional Meetings

Region	Location	Date	Host/Partners	Tour
Southeast	Auburn, Alabama	January 23-24	Southern Company	Martin
				Dam
Midwest	Des Moines, Iowa	April 30 – May 1	Missouri River Energy	Red
			Services / Midwest	Rock
			Hydro Users Group /	Dam
			Hydropower	
			Collegiate	
			Competition, a	
			project of the U.S.	
			Department of	
			Energy, National	
			Renewable Energy	
			Laboratory, and the	
			Hydropower	
			Foundation	
Alaska	Juneau, Alaska	August	Juneau Hydropower,	TBD
	(Tentative)	(Tentative)	Alaska Power	
			Association, and	
			Alaska Energy	
			Authority (Tentative)	
California	Redding, California	December	Pacific Gas and	Pit 7;
	(Tentative)	(Tentative)	Electric Company	Shasta

PUBLIC AFFAIRS

Public Affairs

Welcoming Our New Director of Public Affairs: Copeland Tucker has recently joined the National Hydropower Association in this senior role at our organization. He brings many years of experience in communications and public affairs, serving on Capitol Hill for clean energy champions, as well as in the public relations world, where he advised major companies on promoting their energy transition research. He's eager to help tap into diverse audiences and partner with new stakeholders to help elevate the work of our industry and share the benefits of hydropower.

National Hydropower Day: This annual commemoration of all things hydropower was a major success. National Hydropower Day posts reached millions of users across social media and news platforms, and our messages were uplifted by large organizations like the Department of Energy and hydropower champions in Congress, including Sens. Lisa Murkowski, Steve Daines and Jim Risch; Reps. Cathy McMorris Rodgers, Mary Peltola, Dan Newhouse and Marie Gluesenkamp Perez; and Montana Gov. Greg Gianforte. We also thank all our members for adding to this national conversation. Please see the brief slide deck within the appendix for more key takeaways from National Hydropower Day.

There is also an upcoming opportunity to share the benefits of hydropower across the world on Global Hydropower Day, which is happening Wednesday, October 11th.

Clean Living Digital Ad: Thanks again to our members who helped fund our "Clean Living" digital media campaign aimed at millennials in 10 states. Our message seeks to encourage people to think about the importance of clean energy in their daily lives, and why hydropower is so important as it's the 24/7 foundation for a ready and reliable electricity grid. The campaign is now running on streaming platforms and social media, such as Facebook and Instagram, and we are eager to share the successes of this major effort.

Adding More Value to Meetings: In order to make our committee meetings more valuable to our members and to make sure those who can't make it don't miss out on important information, we will begin sending the top takeaways from each bi-monthly meeting to our members, including relevant messaging points. This change will also help to ensure all communicators have the tools you need to respond to difficult questions from media and other stakeholders.

Key Coverage

Why you should give a damn about America's dams, The Hill, Sep 6, 2023 *Opinion column by Dan Reicher, Tom Kiernan, and Malcolm Woolf*

"Congress now needs to take the next steps to increase dam safety, boost clean energy deployment and enhance ecological systems across the nation. At the top of the list is the bipartisan 21st Century Dams Act, which would invest billions of dollars more in the implementation of the 3Rs plan. Also critical is reforming the hydropower licensing process, which would address the cost and delays that bog down hydropower projects while also speeding up the decommissioning process for removing hydropower dams. With more than thirty percent of all hydropower licenses in the country set to expire by 2030, it's time to reform these processes so we can both maintain this important energy source and improve river health."

SWPA Celebrates 2023 National Hydropower Day, Energy.gov, August 23, 2023

"As a way to collectively recognize hydropower's undeniable contributions to bolstering the nation's clean energy infrastructure and providing grid resiliency and reliability benefits, the National Hydropower Association (NHA) has established August 24th as National Hydropower Day. This year's theme is Hydropower is Key and celebrates that hydropower is the key to cleaner communities, local job creation, and a dependable clean energy future."

National Hydropower Day 2023 Wrap-Up

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NATIONAL HYDROPOWER DAY AUGUST 24, 2023

HYDROPOWER IS KEY

#HydroDay

Executive Summary



Editorial Mentions 382 The number of times Hydro Day messaging appeared in articles

Broadcast News Mentions 8 The number of mentions on broadcast

news

Government Engagement 19 Number of Twitter posts from Federal and State government officials

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Articles on Social Media 396

Number of times articles about National Hydropower Day were shared on social media

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HydroDay	#HydroDay		·····
Yahoo! Finance	A Ssociated Press		Washington Exam
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National Hydropower Day	National Hydropower Day	National Hydropower Day	Daily on Energy: Interior hides
2023: Celebrating America's	2023: Celebrating America's	2023: Celebrating America's	behind rare whale in oil and
First Renewable on August 24	First Renewable on August 24	First Renewable on August 24	gas Gulf fight
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Fox 8 News us Aug 23, 3:30	WGN-TV us Aug 23, 4:24	GlobeNewswi by notified WXIN-TV us Aug 23, 3:30	Department of En us Aug 24, 12:13
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National Hydropower Day	National Hydropower Day	by notified WXIN-TV us Aug 23, 3:30 National Hydropower Day	us Aug 24, 12:13 Hydropower Is Key to a Clean

Federal & State Engagement



Industry Arranged Tours Two industry members (Tacoma PUD and NorthWestern Energy) invited and organized tours for their members of Congress



Theme Utilization Dept. of Energy and Members of Congress used the "Hydropower is Key" theme, as well as the social

media toolkit

Continuing Dialogue National Hydropower Day provides another opportunity to reach out to Congressional offices and educate them about hydropower, acting as a starting point for further advocacy

US Depart Twitter US U! Governor G Twitter US / Happy National Hydropower Day! Hydropower plays a significant role in America's clean energy infrastructure, strengthening our nation's generate reliable more than 950, across Montana Happy #hydrod @MTDEQ https://t.co/bv6d		24 - 4:53 PM Image: Twitter US Aug 24 - 1:18 PM energy for the permitting process for D households private hydropower infrastructure because I know #hydroiskey to Idaho. #hydroday https://t.co/alytIK9		Aug 24 - 1:18 PM rocess for wer ecause I know Idaho.	W Twitter US Aug 24 - 5	
© 4.92M	ve ○	Positive O	© 118k	4k Positive O	Hydropower Day 5.71k Reach 21 En	ngagement 741 Views Positive O
 U.S. Department of Energy (Twitter US Aug 24 · 3:13 PM Happy National Hydropower Day This clean energy source can be relied on during periods of high energy demand and even during droughts. 	Ywitter US Aug 24 ⋅ 3:13 PM Happy National Hydropower Yay This clean energy source an be relied on during periods f high energy demand and Twitter US Aug 24 ⋅ 2:06 PM Yang Twitter US Aug 24 ⋅ 2:06 PM Happy National #hydroday ! Hydropower accounts for nearly 70% of the electricity generated in Washington State, but only		Rep. Dan Newhouse@RepNrTwitter Aug 24 · 12:04 PMIt's National Hydroday , I'dThis National #hydroday , I'dIt's National Hydroday , I'dlike to recognize the crucial roleIt's National Hydroday , I'dthe Lower Snake River DamsClean power is darplay in Central Washington andfor Southwest Wasthe PacificKeep working to		<mark>power Day</mark> ! le, reliable n important	Sen. Lisa Murkowski @ @lisam Twitter US Aug 24 · 3.05 PM all the innovative projects that provide its clean, renewable, baseload power in our state on this #hydroday ! https://t.co/iBlopNnnDH
© 824k ⊑ 55 ⊚ 31.4k Positive ⊖	© 53.2k	© 25.2k 国 72	⊚ 31.4k Positive ○	§ 9.58k ⊑ 65 ⊚ 2.4	4k Positive O	© 327k
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hydroday, #HydroDay

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Industry Engagement



Industry Shared Their Stories Industry took to social media and shared stories about their work in hydropower



Press Releases

Various hydropower industry members published press releases in celebration of National Hydropower Day, highlighting their assets and community work.



Theme Utilization

Industry used the "Hydropower is Key" theme and expanded on it by adding unique perspectives and images of their own hydro assets

Turlock Irrigation District @TurlockID · Aug 24 It's #HydroDay! We're proud to be generators of clean, renewable hydropower! With multiple large and small hydroelectric plants with a capacity of more than 232 MW, we're helping power the lives of 240,000 people with clean, carbon-free energy.



+ Follow ···· Eagle Creek Renewable Energy LLC ma. O

F.

America's first #renewable energy source, #hydropower, is being celebrated today, #HydroDay! #HydroIsKey to keeping the lights on in our homes and businesses, and every year, we love to take the opportunity to share how hydro benefits our lives each and every day!



+ Follow Stanley Kocon • 2nd CEO at Voith Hydro Inc. mo · 🕥

On this National Hydropower Day, I am energized by the enormous opportunities in the U.S. #hydropower market. After more than 120 years of hydroelectric generation in the U.S., hydropower continues to be resil ...see more



Bonneville Power @bonnevillepower · Aug 24

It's #HydroDay! For more than century, hydropower has fueled the NW with reliable clean energy, Hydro's dependability & flexibility enable the integration of intermittent renewables like wind & solar. Together, we're leading the NW into a bright, clean energy future. #HydroDay





On #HydroDay, we celebrate America's first renewable industry and recognize that #HydrolsKey to securing a dependable #cleanenergy future. For over half a century, NID has utilized this power from the Sierra Nevada's flowingsee more

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+ Follow ···

Yesterday was National Hydropower Day, and we are continuing to celebrate! We were honored to recently host Rep. Marie Gluesenkamp Perez (D-WA-03) and Lewis County Co sioner Scott Brummer for a tour of Mossyrock Esee more

acoma Public Utilities

932 followers

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FirstLight Power @FirstLightPower · Aug 24 Happy #HydroDay! We're proud to deliver #clean, local #hydropower to communities across North America, and we look forward to facilitating the continued legacy of this reliable and flexible #cleanenergy resource as #decarbonization of the electric grid advances.

Corps of Engineers @portlandcorps

Twitter | US | Aug 24 · 4:21 PM

Thursday. https://t.co/7yhdVgyabP

nief Executive Officer at PG&E Corporation

Patti Poppe • 2n

nationalhydropowerday, #NationalHydropowerDay

Happy #nationalhydropowerday to all

Happy Hydropower Day 01 17 2 11 135 Tennessee Valley Authority 🧇 🌾 Twitter | US | Aug 24 · 9:45 AM

It's National #hydroday - a day to remember all the benefits provided by our system of dams, including renewable energy, water quality and

Positive O

Duke Energy 🤣 @DukeEnergy Twitter | MM | Aug 23 · 1:00 PM

Hydropower has helped shape the landscape of the Carolinas since 1904 - and will continue who celebrate. To those who don't: Happy to be instrumental in our clean energy future. Happy National



https://t.co/0WmvzTgE9k

hydroday, #HydroDay Positive O

+ Follow ...

CI Repost

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121k Reach 26 Engagement 2.65k Views Positive C



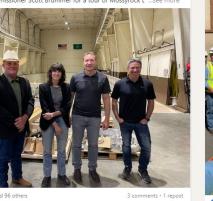
My love for the industry grows each year. It is a truly unique industrysee more



🖞 Like 🕞 Comment 门 Repost 🖪 Send (iii)



Reminiscing this National #HydroDay about my visit to our Pit 3 Powerhouse last yearl #lovemycoworkers who safely maintain our reliable, clean #hydroelectric resources day in & day out. #DidYouKnow: our hydroelectric system (....see more







Looking Forward to #HydroDay 2024!

BBBC)

NATIONAL HYDROPOWER DAY AUGUST 24, 2023

HYDROPOWER IS KEY

#HydroDay



Funds Appropriated in the Inflation Reduction Act (IRA) and the Bipartisan Infrastructure Law (BIL)

This document is intended to help identify federal funds that are available if you are making investments in your hydroelectric facilities and/or your dams.

Available grant and/or loan programs are organized by type of work you are doing. Click on a category to get to a chart of specific funding opportunities for that activity:

- 1. Dam Safety Upgrades
- 2. <u>River Restoration and Environmental Improvements</u>
- 3. Powerhouse, Grid Resilience, and Energy Efficiency Improvements
- 4. Long-Duration Energy Storage
- 5. Small Projects (Under 30 MW)

1. Dam Safety Upgrades

Funding Sources	Investment Eligibility	Date Available	Funding Type	Appropriat ed Amount	Primary Contact
USACE - CWIFP	Non-federal projects focused on maintaining, upgrading, and repairing dams identified in the National Inventory of Dams	The <u>Final Rule</u> has been published, effective on June 21, 2023.	Loan - long term, low cost	\$7.5 billion	Nathan (Nate) Campbell (Senior Portfolio Manager, Corps Water Infrastructure Financing Program) – <u>Nathan.J.Campbell@usace.</u> <u>army.mil</u>
<u>DOE OCED –</u> <u>Section 40103 (c)</u>	States, tribes, and utilities seeking funding for energy improvements in rural or remote areas	Pre-Application closed July 13, 2023; Full application extended deadline to October 26, 2023	Grant	\$1 billion	Katy Sartorius (Communications Director) <u>katy.sartorius@hq.doe.gov</u>
USDA Section 22004 "New Era"	Rural Electric Cooperatives that reduce GHG emissions by purchasing, building, or deploying renewable energy or by making efficiency improvements to eligible generation and transmission systems	Letters of Interest were due September 15, 2023	Grant and/or Loan	\$9.7 billion	Tasha Deardorff (Area Manager)- tasha.deardorff@usda.gov Clare Sierawski (Senior Energy Counselor)- clare.sierawski@usda.gov
DOE Grant 247	Grid Resiliency, Dam Safety, and Environmental Improvements	Guidance issued in May 2023. Letters of Intent were due June 22, 2023; full applications due October 6, 2023 (letter of intent was required to complete the full application)	Grant	\$553 million	Luciana Ciocci (Stakeholder Engagement Lead) – Iuciana.ciocci@hq.doe.gov

Funding Details:

<u>USACE – CWIFP</u>

- Fact Sheet one-pager https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll11/id/6009
- The <u>Final Rule</u> has been published and is effective as of June 21, 2023

- The Corps Water Infrastructure Financing Program (CWIFP) enables local investment in infrastructure projects that address community water resource needs, promote economic prosperity, and improve environmental quality.
- Current appropriations enable the CWIFP to provide up to \$7.5 billion in loans for maintaining, upgrading, and repairing dams for any non-federal borrowers.
- The program is open to projects or bundles of projects that have a combined total cost of \$20M or more.

DOE OCED - Section 40103 (c)

- \$1 billion to carry out activities for energy improvements in rural and remote areas.
 - The ERA program received \$1 billion from the Bipartisan Infrastructure Law and provides financial investment, technical assistance, and other resources to advance clean energy demonstrations and energy solutions that are replicable and scalable. ERA aims to fund community-driven energy projects with three specific goals:
 - Deliver measurable benefits to energy customers in rural or remote areas by funding replicable energy projects that lower energy costs, improve energy access and resilience, and/or reduce environmental harm.
 - Demonstrate new rural or remote energy system models using climateresilient technologies, business structures that promote economic resilience, new financing mechanisms, and/or new community engagement best practices.
 - Build clean energy knowledge, capacity, and self-reliance throughout rural America.
- Pre-applications were due July 13, 2023. The deadline for the <u>full application</u> has been extended to October 26, 2023.

USDA – Section 22004 Empowering Rural America (New Era)

- Up to \$9.7 billion in new funding is available for electric cooperatives to reduce greenhouse gas emissions by purchasing or deploying renewable energy, zero-emission systems, and carbon capture technology. Funding also can be used to make generation and transmission energy efficiency improvements. New ERA funding is designed to support long-term resiliency, reliability, and affordability. Applicants can request loans, grants, loan modifications, and other financial assistance.
- Fact Sheet two-pager <u>https://www.rd.usda.gov/sites/default/files/fact-sheet/508_RD_FS_RBS_REAP_RE.pdf</u>
- Letters of Interest (LOIs) were due on September 15, 2023

DOE Grant 247

- Section 247: Maintaining and Enhancing Hydroelectricity Incentives was created to maintain and enhance hydroelectric facilities to ensure generators continue to provide clean, affordable electricity, while integrating renewable energy resources such as wind and solar, improving dam safety, and reducing environmental impacts.
- Letters of Intent were due June 22, 2023, with applications closing October 6, 2023

- Grid Resiliency- adapting to changing grid conditions, ancillary services, integrating other variable sources of generation, managing reservoir sediments.
- Dam Safety- maintenance or upgrade of spillways, erosion repair and seepage controls, upgrades or replacements of floodgates, infrastructure restoration, flood risk, and more.
- Environmental Improvements- adding or improving safe fish passage, improving water quality retainment, promoting downstream sediment transport processes, improving recreational access, and more.

Funding Sources	Investment Eligibility	Date Available	Funding Type	Appropriat ed Amount	Primary Contact
Bureau of Reclamation - WaterSMART	States, irrigation or water districts, tribes, nonprofits, universities, or organizations with water or power delivery authority	While FY23 applications have already been funded, applications for FY24 are still open	Grants	Millions	Marie Hughes Brown (Assistant Director) - <u>mhughesbrown@usbr.gov</u> Mathew Maucieri (Program Manager) - <u>mmaucieri@usbr.gov</u>
DOE LPO – Title <u>17 Clean Energy</u> <u>Financing – Energy</u> <u>Infrastructure</u> <u>Reinvestment (EIR</u> <u>or 1706)</u>	Projects that retool, repower, repurpose, or replace energy infrastructure	Available through September 30, 2026	Loans	\$250 billion	Ariane Benrey (Consultant) ariane.benrey@hq.doe.gov Leslie Rich (Senior Consultant) - leslie.rich@hq.doe.gov
Fish and Wildlife, Forest Service, USACE, NOAA, and Bureau of Reclamation	Landowners and public lands managers seeking funding to improve fish passage, aquatic connectivity, and/or aquatic and ecosystem restoration	Available now - specific to each program	Tool to Find Grants & Loans	\$2 billion	FWS: Shannon Boyle- shannon_boyle@fws.gov
<u>NOAA DOI </u> DOT FEMA	Habitat Restoration Funding Opportunities for Hydropower and Waterpower	Available now - specific to each program	Tool to Find Grants & Loans	Billions	NOAA: Melanie Gange- melanie.gange@noaa.gov
DOE Grant 247	Grid Resiliency, Dam Safety, and Environmental Improvements	Guidance issued in May 2023. Letters of Intent were due June 22, 2023; full applications due October 6, 2023 (letter of intent was required to complete the full application)	Grant	\$553 million	Luciana Ciocci (Stakeholder Engagement Lead) – luciana.ciocci@hq.doe.gov

2. River Restoration and Environmental Improvements

Funding Details:

Bureau of Reclamation - WaterSMART

• Reclamation is providing funding opportunities to address water supply by investing in modernizing existing infrastructure to avoid water conflicts.

- Eligible entities: This funding opportunities is for States, tribes, irrigation districts, water districts, organizations with water or power delivery authority, conservation organizations, universities, non-profit and research institutions.
- Projects range from conserving water and addressing water supply reliability to on-theground modeling tools to increase water management.

DOE – LPO

- Funding Listing: <u>https://www.energy.gov/lpo/energy-infrastructure-reinvestment</u>
- \$5 billion for projects, up to \$250 billion of loan authority, that retool, repower, repurpose, or replace energy infrastructure that has ceased operations, or enable operating energy infrastructure to avoid, reduce, utilize, or sequester air pollutants or anthropogenic emissions of greenhouse gases.

Fish and Wildlife, Forest Service, USACE, NOAA, and Bureau of Reclamation

- The portal is a "one-stop shop" for anyone who needs information, funding, or resources to improve fish passage and aquatic connectivity projects. We provide landowners and public lands managers the tools to find funding across the federal government, as well as access to data, planning, and geospatial information.
- The Bipartisan Infrastructure Law (BIL) provided multiple agencies with up to \$293.7 million for aquatic and ecosystem restoration that supports fish passage. The BIL will fund projects over five years (FY2022 FY2026) and result in a transformational impact to aquatic species, their habitats, and the surrounding communities.

NOAA, DOI, DOT, FEMA, and more

- Habitat restoration efforts for nonprofits, state and federal agencies, Tribes, and local community collected by the Wild Salmon Center from the BIL and IRA
- <u>Each section of this document</u> outlines the appropriation location, responsible agency, eligible entities, match requirements, total proposed allocation, summary of the fund, and an important date to watch for.

DOE Grant 247

- Section 247: Maintaining and Enhancing Hydroelectricity Incentives was created to maintain and enhance hydroelectric facilities to ensure generators continue to provide clean, affordable electricity, while integrating renewable energy resources such as wind and solar, improving dam safety, and reducing environmental impacts.
- Letters of Intent were due June 22, 2023, with applications closing October 6, 2023
- Grid Resiliency- adapting to changing grid conditions, ancillary services, integrating other variable sources of generation, managing reservoir sediments.
- Dam Safety- maintenance or upgrade of spillways, erosion repair and seepage controls, upgrades or replacements of floodgates, infrastructure restoration, flood risk, and more.
- Environmental Improvements- adding or improving safe fish passage, improving water quality retainment, promoting downstream sediment transport processes, improving recreational access, and more.

3. Powerhouse, Grid Resilience, and Energy Efficiency Improvements

Funding Sources	Investment Eligibility	Date Available	Funding Type	Appropriat ed Amount	Primary Contact
DOE LPO – Title <u>17 Clean Energy</u> <u>Financing – Energy</u> <u>Infrastructure</u> <u>Reinvestment (EIR</u> <u>or 1706)</u>	Projects that retool, repower, repurpose, or replace energy infrastructure	Available through September 30, 2026	Loans	\$250 billion	Ariane Benrey (Consultant) ariane.benrey@hq.doe.gov Leslie Rich (Senior Consultant) - leslie.rich@hq.doe.gov
<u>DOE OCED –</u> <u>Section 40103 (c)</u>	States, tribes, and utilities seeking funding for energy improvements in rural or remote areas	Pre-Application closed July 13, 2023; <u>Full</u> application extended deadline to October 26, 2023	Grant	\$1 billion	Katy Sartorius (Communications Director) <u>katy.sartorius@hq.doe.gov</u>
DOE OCED - Section 40103 (b)	States, tribes, local governments, and utilities upgrade our electric grid and ensure reliability and resiliency.	First round application closed May 18, 2023; second round of funding anticipated to be released in Q1 of FY24.	Grant	\$ 5 billion	Katy Sartorius (Communications Director) <u>katy.sartorius@hq.doe.gov</u>
USDA Section 22004 "New Era"	Rural Electric Cooperatives that reduce GHG emissions by purchasing, building, or deploying renewable energy or by making efficiency improvements to eligible generation and transmission systems.	Letters of Interest were due September 15, 2023	Grant and/or Loan	\$9.7 billion	Tasha Deardorff (Area Manager) <u>tasha.deardorff@usda.gov</u> Clare Sierawski (Senior Energy <u>Counselor)</u> <u>clare.sierawski@usda.gov</u>
USDA Section 22001 "PACE"	Clean energy developers or electric service providers that finance hydropower or storage projects. This funding opportunity can also be used for biomass, geothermal, and other renewable energy sources.	Letters of Interest were due September 29, 2023	Partially forgivable loans	\$1 billion	Tasha Deardorff (Area Manager) <u>tasha.deardorff@usda.gov</u> Clare Sierawski (Senior Energy <u>Counselor)</u> <u>clare.sierawski@usda.gov</u>
DOE Grant - 242	Incentive payments to qualified hydroelectric facilities for electricity generated and sold and investments for adding	Guidance issued in March 2023; Applications closed;	Grant	\$125 million	Luciana Ciocci (Stakeholder Engagement Lead) – Iuciana.ciocci@hq.doe.gov

Funding Sources	Investment Eligibility	Date Available	Funding Type	Appropriat ed Amount	Primary Contact
	generation to existing non- powered dams or conduits	selections for funding pending			
DOE Grant 243	Owners and operators of existing hydro facilities and pumped storage that improve hydropower efficiency by at least 3%	Guidance issued in March 2023; Applications closed; selections for funding pending	Grant	\$75 million	Luciana Ciocci (Stakeholder Engagement Lead) - luciana.ciocci@hq.doe.gov
DOE Grant 247	Grid Resiliency, Dam Safety, and Environmental Improvements	Guidance issued in May 2023. Letters of Intent were due June 22, 2023; full applications due October 6, 2023 (letter of intent was required to complete the full application)	Grant	\$553 million	Luciana Ciocci (Stakeholder Engagement Lead)- luciana.ciocci@hq.doe.gov

Funding Details:

DOE – LPO

- Funding Listing: <u>https://www.energy.gov/lpo/energy-infrastructure-reinvestment</u>
- \$5 billion for projects, up to \$250 billion of loan authority, that retool, repower, repurpose, or replace energy infrastructure that has ceased operations, or enable operating energy infrastructure to avoid, reduce, utilize, or sequester air pollutants or anthropogenic emissions of greenhouse gases.

DOE OCED - Section 40103 (c)

- \$1 billion to carry out activities for energy improvements in rural and remote areas.
 - The ERA program received \$1 billion from the Bipartisan Infrastructure Law and provides financial investment, technical assistance, and other resources to advance clean energy demonstrations and energy solutions that are replicable and scalable. ERA aims to fund community-driven energy projects with three specific goals:
 - Deliver measurable benefits to energy customers in rural or remote areas by funding replicable energy projects that lower energy costs, improve energy access and resilience, and/or reduce environmental harm.
 - Demonstrate new rural or remote energy system models using climateresilient technologies, business structures that promote economic resilience, new financing mechanisms, and/or new community engagement best practices.

- Build clean energy knowledge, capacity, and self-reliance throughout rural America.
- Pre-applications are due July 13, 2023. The deadline for the <u>full application</u> has been extended to October 26, 2023.

DOE OCED - Section 40103 (b)

- \$5 billion for grants under the Program Upgrading Our Electric Grid and Ensuring Reliability and Resiliency. Funds available until expended, and the second round of funding is anticipated to be released in Q1 of FY24.
- To coordinate and collaborate with electric sector owners and operators—(A) to demonstrate innovative approaches to transmission, storage, and distribution infrastructure to harden and enhance resilience and reliability; and (B) to demonstrate new approaches to enhance regional grid resilience, implemented through States by public and rural electric cooperative entities on a cost-shared basis.

USDA – Section 22004 Empowering Rural America (New Era)

- Up to \$9.7 billion in new funding is available for electric cooperatives to reduce greenhouse gas emissions by purchasing or deploying renewable energy, zero-emission systems, and carbon capture technology. Funding also can be used to make generation and transmission energy efficiency improvements. New ERA funding is designed to support long-term resiliency, reliability, and affordability. Applicants can request loans, grants, loan modifications, and other financial assistance.
- Fact Sheet two-pager <u>https://www.rd.usda.gov/sites/default/files/fact-sheet/508_RD_FS_RBS_REAP_RE.pdf</u>
- Letters of Interest (LOIs) were due on September 15, 2023

<u>USDA – Section 22001 Powering Affordable Clean Energy (PACE)</u>

- PACE will make \$1 billion available in partly forgivable loans to clean-energy developers or electric service providers to help finance large-scale solar, wind, geothermal, biomass.
- The goal of the PACE Program is to support clean, affordable energy growth across America. The PACE Program provides loans to eligible entities, with varying levels of loan forgiveness, for Projects that generate and/or store electricity from a renewable energy resource.
- Letters of Interest (LOIs) were due on September 29, 2023.
- Project finance is still available for similar projects through normal RUS appropriation.

DOE Grant 242

• The Hydroelectric Production Incentive Program, section 242, provides incentive payments up to \$125 million to qualified hydroelectric facilities for electricity generated and sold.

• Capital investments that add hydropower generation at existing non-powered dams (NPD) or a conduit, and new green field projects (20 MW or less) in areas of inadequate electric service.

DOE Grant 243

- The Hydroelectric Production Incentive Program, section 243, allows owners or operators of existing hydroelectric facilities, including pumped storage hydropower, to apply for funding up to \$75 million for making capital improvements that improve their efficiency by at least 3%.
- The application window closed on June 20, 2023, and applications are currently being reviewed.

DOE Grant 247

- Section 247: Maintaining and Enhancing Hydroelectricity Incentives was created to maintain and enhance hydroelectric facilities to ensure generators continue to provide clean, affordable electricity, while integrating renewable energy resources such as wind and solar, improving dam safety, and reducing environmental impacts.
- Letters of Intent were due June 22, 2023, with applications closing October 6, 2023
- Grid Resiliency- adapting to changing grid conditions, ancillary services, integrating other variable sources of generation, managing reservoir sediments.
- Dam Safety- maintenance or upgrade of spillways, erosion repair and seepage controls, upgrades or replacements of floodgates, infrastructure restoration, flood risk, and more.
- Environmental Improvements- adding or improving safe fish passage, improving water quality retainment, promoting downstream sediment transport processes, improving recreational access, and more.

4. Long-Duration Energy Storage

Funding Sources	Investment Eligibility	Date Available	Funding Type	Appropriat ed Amount	Primary Contact
DOE LPO – Title <u>17 Clean Energy</u> <u>Financing – Energy</u> <u>Infrastructure</u> <u>Reinvestment (EIR</u> <u>or 1706)</u>	Projects that retool, repower, repurpose, or replace energy infrastructure	Available through September 30, 2026	Loans	\$250 billion	Ariane Benrey (Consultant) ariane.benrey@hq.doe.gov Leslie Rich (Senior Consultant) - leslie.rich@hq.doe.gov
USDA Section 22001 "PACE"	Clean energy developers or electric service providers that finance hydropower or storage projects. This funding opportunity can also be used for biomass, geothermal, and other renewable energy sources.	Letters of Interest were due September 29, 2023	Partially forgivable loans	\$1 billion	Tasha Deardorff (Area Manager) - tasha.deardorff@usda.gov Clare Sierawski (Senior Energy Counselor) - clare.sierawski@usda.gov
DOE EERE	Pumped storage: electric utilities that provide 1,000 MW of storage capacity	Applications closed; selections for funding pending	Grant	\$10 million	Sam Bockenhauer, (HydroWIRES Lead) – samuel.bockenhauer@ee.doe.gov
DOE OCED Section 40342	Projects that advance the widespread deployment of elean energy projects on current and former mine land.	Full applications were due August 31, 2023.	Grant	\$500 million	Katy Sartorius (Communications Director) <u>katy.sartorius@hq.doe.gov</u>

Funding Details:

DOE – LPO

- Funding Listing: <u>https://www.energy.gov/lpo/energy-infrastructure-reinvestment</u>
- \$5 billion for projects, up to \$250 billion of loan authority, that retool, repower, repurpose, or replace energy infrastructure that has ceased operations, or enable operating energy infrastructure to avoid, reduce, utilize, or sequester air pollutants or anthropogenic emissions of greenhouse gases.

USDA – Section 22001 Powering Affordable Clean Energy (PACE)

- PACE will make \$1 billion available in partly forgivable loans to clean-energy developers or electric service providers to help finance large-scale solar, wind, geothermal, biomass.
- The goal of the PACE Program is to support clean, affordable energy growth across America. The PACE Program provides loans to eligible entities, with varying levels of loan forgiveness, for Projects that generate and/or store electricity from a renewable energy resource.

- Letters of Interest (LOIs) were due on September 29, 2023.
- Project finance is still available for similar projects through normal RUS appropriation.

DOE – EERE Section 40334

- This section authorizes \$10 million for FY 2022–2026, or \$2 million each year, and directs the Secretary of Energy to provide financial assistance to an eligible entity to carry out project design, transmission studies, power market assessments, and permitting for a pumped storage hydropower project to facilitate the long-duration storage of intermittent renewable electricity.
- This section also establishes specific eligibility criteria; i.e., the recipient must be an electric utility who can provide matching funds equal to or greater than the amount of financial assistance provided by DOE and the project must be designed to provide not less than 1,000 megawatts of storage capacity, be able to provide energy and capacity for use in more than one organized electricity market, be able to store electricity generated by intermittent renewable electricity projects located on Tribal land, and have received a preliminary permit from the Federal Energy Regulatory Commission.

<u>DOE OCED - 40342</u>

- Section 40342 of the BIL authorizes DOE to establish a program to demonstrate the technical and economic viability of clean energy projects on current and former mine land in geographically diverse regions.
 - Projects regarding hydropower and pumped storage are eligible for funding from OCED with appropriations of \$500 million for the five-year encompassing FY22 through 2026.

5. Small Projects (Under 30 MW)

Funding Sources	Investment Eligibility	Date Available	Funding Type	Appropriat ed Amount	Primary Contact
USDA – Section 22002 "REAP"	Rural Small Businesses (including Rural Electric Cooperatives, Electric Utilities, or Tribal Business Entities that meet the definition of small business) or Agriculture Producers who need funding for energy efficiency improvements or renewable energy systems	Application windows: Q3: October 1, 2023-December 31, 2023 Q4: January 2, 2024-March 31, 2024 Q5: April 1, 2024-June 30, 2024 Q6: July 1, 2024-September 20, 2024	Grant	\$2.025 billion	Tasha Deardorff (Area Manager) - <u>tasha.deardorff@usda.gov</u> Clare Sierawski (Senior Energy Counselor) - <u>clare.sierawski@usda.gov</u>
DOE Grant 243	Owners and operators of existing hydro facilities and pumped storage that improve hydropower efficiency by at least 3%	Guidance issued in March 2023; Applications closed; selections for funding pending	Grant	\$75 million	Luciana Ciocci (Stakeholder Engagement Lead) - Iuciana.ciocci@hq.doe.gov
DOE Grant 242	Incentive payments to qualified hydroelectric facilities for electricity generated and sold and investments for adding generation to existing non- powered dams or conduits	Guidance issued in March 2023; Applications closed; selections for funding pending	Grant	\$125 million	Luciana Ciocci (Stakeholder Engagement Lead) – luciana.ciocci@hq.doe.gov
USDA Section 22001 "PACE"	Clean energy developers or electric service providers that finance hydropower or storage projects. This funding opportunity can also be used for biomass, geothermal, and other renewable energy sources.	Letters of Interest were due September 29, 2023	Partially forgivable loans	\$1 billion	Tasha Deardorff (Area Manager) – <u>tasha.deardorff@usda.gov</u> Clare Sierawski (Senior Energy Counselor) – elare.sierawski@usda.gov

Funding Details: <u>USDA – Section 22002 Rural Energy for America Program (REAP)</u> • Provides up to \$2.025 billion in RBCS funding, with \$303 million set aside for underutilized technologies and technical assistance. More than \$300 million has already been announced, with more to come. Most grants can cover up to 50 percent of total project costs. REAP funds support renewable energy and energy efficiency projects for tens of thousands of rural small businesses and farms.

DOE Grant 243

- The Hydroelectric Production Incentive Program, section 243, allows owners or operators of existing hydroelectric facilities, including pumped storage hydropower, to apply for funding up to \$75 million for making capital improvements that improve their efficiency by at least 3%.
- The application window closed on June 20, 2023, and applications are currently being reviewed.

DOE Grant 242

- The Hydroelectric Production Incentive Program, section 242, provides incentive payments up to \$125 million to qualified hydroelectric facilities for electricity generated and sold.
- Capital investments that add hydropower generation at existing non-powered dams (NPD) or a conduit, and new green field projects (20 MW or less) in areas of inadequate electric service.

<u>USDA – Section 22001 Powering Affordable Clean Energy (PACE)</u>

- PACE will make \$1 billion available in partly forgivable loans to clean-energy developers or electric service providers to help finance large-scale solar, wind, geothermal, biomass.
- The goal of the PACE Program is to support clean, affordable energy growth across America. The PACE Program provides loans to eligible entities, with varying levels of loan forgiveness, for Projects that generate and/or store electricity from a renewable energy resource.
- Letters of Interest (LOIs) were due on September 29, 2023.
- Project finance is still available for similar projects through normal RUS appropriation.

Attendees:

Executive Committee (virtual if noted)						
Mike Haynes	Thomas St. John	Sharon White (virtual)				
Pam Sullivan	Jay Anders (Past Chair) (virtual)	Jim Hancock (General Counsel)				
Board Members (virtual if noted)						
Carl Atkinson	Suzanne Biddle	Suzanne Grassell				
Scott Hennessey (virtual)	Randy Herrin	Sarah Kulpa (Advisory) (virtual)				
Jeff Leahey	Joel Ledesma (Advisory) (vi					
Alan Michaels (virtual)	Megan Nesbitt	Dan Petcovic (Advisory)				
Chris Rousseau (virtual)	Chuck Sensiba	Mary Gail Sullivan (virtual)				
Eric Van Deuren						
Elic vali Deuleli	Heidi Wahto (virtual)					
NHA Staff/ NHA Committee / Council / Task Force Representatives						
Marla Barnes	Francesca Blanco Hadjimichael (vir					
Marycella Dumlao	Chris Hayes	Anthony Laurita				
Joseph LoSasso	Brittney May	Michael Purdie				
-						
Kelly Rogers	Catherine Ryan	Malcolm Woolf				
Susie Reynosa (NHA intern) Matt Allan						
<u>Other</u>						
Katia Debian from GE	Deb Mursch (GE)	Rick Miller (HDR)				
Mike Pederson	(-)					

[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 1:30 PM Eastern – Mike shares a safety moment and reads anti-trust statement.

JULY 17, 2023 MEETING SUMMARY NOTES

Item 1 – Consent Agenda / General Updates

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

Item 2 – CEO Report on Key Activities

- Malcolm presents CEO report, shares updates on progress made on NHA's 2023 Strategic Priorities, staffing update and the Uncommon Dialogue. Details are provided in the Board Book.
 - Staff update: hiring for new director of Media Affairs, LeRoy has moved on. Kelly leading efforts on National Hydropower Day, Jeremy leading communications to industry and media, Malcolm leading digital media campaign.
 - Uncommon Dialogue: conversations continue, grant money now available, 3 pieces of legislation now endorsed by Uncommon Dialogue; DOE grant for \$3.7 million over 2 years to be spread among 12+ groups and should accelerate discussions, NHA to receive

~\$600,000; NHA will continue to engage on UD workgroups with industry co-chairs and NHA committees/councils, more industry participation needed in working groups.

- Hydropower Vision Roadmap survey- need more industry participation, open through Friday, NHA to send out to its members (Action item).
- Some key topics discussed include:
 - <u>Advocacy</u> topics: hydropower reform package introduced in House and Senate, tax bill seeking 3rd Senate Republican on Finance, DOE 240 applications submitted, meeting with Treasury/IRS on Thursday re "Domestic Content."
 - <u>Connect</u> topics: WPW- record participation, great partnership with collegiate competition, Advocacy Day. Clean Currents- \$1.5 million already raised, 187 exhibitors already confirmed. Record attendance at Midwest Regional Meeting in Wisconsin. NE regional meeting July 25-26.
 - <u>Inform</u> topics: participation in committee and council meetings spiked in April and May, uptick on technical side due to Chris' monthly technical programs; OpEx new site is open; "Clean Living" Digital Ad Campaign moving forward in NE, SE, and Midwest; Powerhouse and Playbook reach over 7,000 weekly.
 - Implement: Strong financials thru May, collected 92% of budgeted revenues already received; memberships at 328 organizations (record high) including 24 new members and 5 dropped members.

Item 3 – 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 92% of budgeted annual revenue and incurred 28% of annual budgeted expenses to date.
- NHA's cash position remains strong with over \$1.5 million held in the operating account.
- Clean Currents- reminder to register.
- WPW great success, \$88,000 above estimated revenue
- Investments have been relatively flat, only 18% of NHA's financial assets are invested in equities.
- Dues increases for next year- to be discussed later in agenda.
- Marla presented on membership status. See membership update on page 15 of Board book. Clean Currents and addition of operational/technical expertise has drawn in more members.

Item 4 – Allocating Uncommitted NHA Funds

- Malcolm presents recommendations on how best to allocate uncommitted 2023 funds to maximize value for NHA's membership and return the organization to compliance with the Board policy of maintaining liquid assets (reserves) of 6-12 months.
- NHA currently forecasts ending CY 2023 \$377K ahead of budget. No obligation to spend excess but asking for Board guidance on options for how to spend it.
- NHA Staff recommendations: \$132K for NHA salary/bonus pool to keep up with inflation; \$100K for pumped storage/external strategic engagement staff position and to engage with external groups; \$50K for NHA Digital Ad campaign to reach more audiences; \$50K for Trump Administration 401 litigation expenses already incurred.
- Eric: something to think about- requests to fund new staff position should consider funding for future years. Malcolm- \$100K covers salary, benefits, and costs to attend meetings through end of 2023. Need to build future year costs into budget.
- Need to consider messaging associated with dues increases when NHA has excess funds.

- Strong support for funding NHA salary/bonus pool.
- Questions on whether Board needs to approve these expenditures or only do a budget amendment. Board agreed to take vote to increase top line by \$277K.
- Pam makes motion to increase top line by \$277K; Eric VD seconded. Motion passed.

Item 5 – Establishing 2024 Dues

- Thomas recommends to maintain 5% dues increase with opt-out option to keep up with inflation.
- Board comments:
 - NHA starting to deliver a lot more value and programming, might consider a more modest dues increase but encourage members to increase participation in NHA initiatives.
 - Recommend slow and steady rate increases of 3-5%.
 - We should consider different grading scales so we don't price out certain potential members.
 - 5% is very reasonable to keep up with inflation.
- Pam makes motion to approve dues increase of 5%; Suzanne Grassell seconded. Motion passed.

Item 8 – Defining Domestic Content Under the Inflation Reduction Act

- Inflation Reduction Act creates a 10% adder to the Production Tax Credit or a 10 percentage point adder to the Investment Tax Credit for taxpayers who have projects that satisfy the requirements for the "Domestic Content Bonus Credit," as defined under Treasury/IRS Notice 2022-38. See Mike Purdie's June 30, 2023 memo to Deep Dive Policy Team for background.
- Treasury issued guidance for wind and solar industry and punted for hydro, asked NHA to meet with it to revise the guidance to include hydro. Real opportunity for NHA to shape definition. NHA has been working with its members and the Deep Dive Policy team to develop a consensus approach.
- Mike Purdie provided overview of NHA's recommendations re on-site manufacturing. Some level of on-site work should be included in domestic content calculation, but not meant to be all inclusive. Work performed by OEM on generator and in some instances the turbine should be included.
- Treasury needs feedback on three topics: What is on-site manufacturing?, component vs. subcomponent, cost or price.
- Rick Miller provided engineering perspective. High level message- need to educate DOE that hydro is different than wind and solar, some manufacturing occurs on site. Hydro equipment is not like a solar wafer.
- Shouldn't be too specific on which components are manufactured on site. If overly restrictive, it could trigger waivers.
- Carl- If turbine and generator are manufactured components to qualify for 40-55% incentive threshold and they reject on-site manufacturing, where is industry then? We would need to build everything in the US.
- Address on-site manufacturing as a distinct issue. Don't get into the details.
- Manufacturers price vs. cost to taxpayer: recommendation is that calculation should be based on price end user incurs for these components rather than manufacturer's cost. This recommendation is in alignment with other trade associations. We don't know what manufacturer cost is, only the price we pay.
- Mike moves to authorize NHA to introduce this as a topic of conversation with Treasury.
- Documents sent to Board on July 14 will not be provided to Treasury yet but will be used as a source of talking points.

- Consensus for Treasury meeting: price vs. cost, on-site manufacturing should be included for domestic content calculation. Note to Treasury that for component vs. sub-component issue we are still looking at issue within the association.
- Malcolm- two areas of consensus- price over cost, some on-site manufacturing activities for hydro should be included. Ask Treasury if they are still using the table- other trades don't like it.
- Mike Haynes moves for approval of price over cost and that some on-site manufacturing activities should be included in the domestic content calculation. Randy seconded, Alan thirded. Motion passed.

Item 6 – Legislative License Reform Outlook

- Matt Allen provided an overview of the WPW Advocacy Day.
- Matt provided an overview of the provisions of the House and Senate licensing bills that have been introduced substantive provisions, cosponsors, etc.
 - Senate ENR Subcommittee will include UD bill in a hearing that will be held on Wednesday this week.
 - Looking for another D to pair with Sen. Crapo who wants to join as cosponsor.
 - Likely vote in September or later in fall
 - If both bills pass through both chambers, there will be a negotiation on conflicting provisions.
 - Matt talked about the prospects for passing licensing reform easier if able to get in a larger permitting bill as opposed to on its own.
 - We have been participating in Uncommon Dialogue process. Trout Unlimited and Nature Conservancy have concerns about provision on Section 18.
 - Chuck- on fish passage, agency would impose prescriptions that must be tied to projectlevel effects. TU and NC are concerned about this provision- it is not about project effects but giving agencies full authority to require fish passage where it is deemed necessary. They indicated that there is no evidence that Section 18 is a problem.
 - Action item: Asking members to provide egregious examples of Section 18 fishway prescriptions- for example, agencies want to move fish to areas where they never were historically.
 - Action item: NHA has drafted letter of support template for S.1521, asking for individual letters from NHA members or email your Senator to ask them to cosponsor the bill.

Item 9 – NHA's Digital Ad Campaign

- Draft new ad was previewed for the Board. Some tweaks will be needed. Board provided feedback. Action item: NHA Board to send digital ad to their comms staff and provide feedback.
- Board spent \$300K last year, funded around \$300K for this year for NE, SE, and adding Midwest this year.
- Commercial to run in September/October.
- Suggest debuting the ad for National Hydropower Day if possible.
- Discussion about fundraising for 2024: NHA can't continue to pass the hat to fund the initiative. Currently spending \$200K per region. Next year if we don't pass the hat, hoping NHA can contribute \$300K and do one region or stretch to cover 2 regions. Some companies are willing to contribute. If asking for contributions, need to include opt in with NHA dues invoice- can't be a separate invoice.

Chuck moved to adjourn, Meg seconded. Meeting adjourned at 5:25 pm Eastern.

JULY 18, 2023 MEETING SUMMARY NOTES

[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 8:32 AM Eastern.

Item 12 – DEI Moment: Leading Our Industry to Look More Like Our Customers

- Brainstorming for nominations for Board nominees to increase diversity on Board.
 - Last year's efforts to increase more diverse applicants:
 - Invited candidates to dinner at Clean Currents so Board could meet them. We will do that again.
 - After slate was chosen, we asked candidates to record a video at Clean Currents so we aren't just voting based on a name.
 - Affirmatively recruit diverse candidates using our own networks.
 - Other ideas for this year: encourage applicants to keep trying, personal outreach to prior applicants.
- Chris Nichols, Executive Director of Renewables Forward. "Thriving in a New Business Era"
 - Community engagement is an important part of DEI
 - More than 1 million new workers needed in the clean energy industry by 2032. Need an equitable workforce. Need to work collaboratively to ensure diverse candidates.
 - Renewables Forward's framework principles: assess DEI in our industry to raise awareness, develop and share corporate practices and policies, create a more diverse and inclusive pipeline of candidates, and invest in the under-resourced and minority communities in which we work.
 - Renewables Entrepreneur-Executive Partnership (REEP) Program- pairs executives with women and diverse-owned start-ups with training and support. NHA could use this program to increase diverse Board candidates.
 - NHA is a member of Renewables Forward and is entitled to its services. Looking for feedback on how we can help NHA.

Item 11 – Raising the Industry's Ambition

- DOE loan office has never given money out for hydropower.
- Why are we funding offshore wind when we could refurbish hydros?
- Does the industry need to raise its ambition? Is the criticism fair?
 - General agreement that criticism is fair.
 - Every time we try something outside the box, limited by license and compliance obligations. Conservative industry is limiting.
 - \circ $\;$ Hesitation to try new innovations because asset owners are risk averse.
 - \circ $\,$ Can't access funding that is available for solar and wind for needed upgrades.
- Energy planners- IRP planners, how do they treat hydropower? Should we try to engage with different people in industry in a different corporate side that aren't considering hydro?

- TVA works with energy planners and its models include pumped storage. Models don't consider ancillary services because there is no market value in our area for those services.
- Valuation question
- o If there is an organization for IRP planners, we could engage to raise the issue.
- Could there be an influencer-led discussion to change view of federal and state agencies?
- People assume hydro plants will be around forever.
- Looking for new product at NYISO for intermittency and spinning up and down multiple times a day which causes damage to our system and plants are entitled to be paid for it.
- Hydropower industry is structurally out-gunned at RTOs. Many IOUs are diversified. Strategy has shifted to influence thought leaders like FERC and NERC that hydro is needed for reliability.
- Hydro is industry that takes no for an answer. Need to find a way to take what you have and take it to a new level. Must break through glass ceilings. Technical innovations aren't our problems. More environmental and operational regulations where hydro has said things are too hard to change. Need to change rules limiting what hydro plants can do.

Item 13 – Bipartisan Infrastructure Law

- Jeff Leahey provided a status update on Section 242/243/247 programs.
 - Section 242 Production Incentives. Applications were due in May, awards will be issued in the fall. DOE has 6-7 years of full funding for this program- need to make members aware that this funding is available.
 - Section 243 Efficiency Improvements- applications due in June, DOE will issue awards in the September/October timeframe. There were many applications and funding may be depleted this year.
 - Section 247- letters of intent were due in June, applications will be due in October. Awards will be in Q1 2024. Many LOIs were received. May be oversubscribed.
- Anthony provided an update on other BIL funding. NHA has held several well attended webinars on these funding opportunities. Another scheduled for August 9 with NOAA and USFWS to discuss non-targeted funding for hydro. See memo prepared by Anthony on hydro.org under resources tab for more information on funding sources. NHA will re-circulate list of funding opportunities (Action item).

Item 14 – Incentivizing Refurbishments: Application of Treasury's "80-20" Rule to Hydropower

- Malcolm provided background on 80-20 rule, how it has been used in the wind industry and how it can be impactful for the hydropower industry. If you repower a facility and more than 80% of facility is new, qualify for purposes of PTC. Repower every 10 years to get the credit. Hydro has never been able to take advantage of credit because they are multi-purpose facilities.
- NHA has reallocated \$ in budget for this and has issued an RFP for tax counsel.
- Mike highlighted a table that Bracewell put together in Board book with 5 options to promote at Treasury and walked through the options. Options 1-2 are the most realistic.
- Had a kick-off call last week to discuss. Asking DOE to educate Treasury on hydropower. Asked members to tell NHA about its investment plans.
- Get your tax experts engaged in this issue.

National Hydropower Association July 17-18, 2023 Board of Directors Meeting Meeting Minutes

- Need guidelines on how fair market value is calculated for purposes of 80-20 rule. For older plants, FMV may be negative.
- Component vs. whole facility is 80%. Don't want to be limited to replacing 80% of a facility.

Item 15 – NHA's "3R" Tax Proposal to Maintain Existing Hydropower and Pumped Storage

- Matt gave an update on the Cantwell Murkowski bill. Seeking a third Senate D member to pair with an R as an original co-sponsor.
- NHA working on a House strategy. Met with House W&M R staff. Heard our proposal was inoffensive (high praise). House Rs would not oppose. Also met with Leader Schumer's office.
- Trying to get bill introduced as soon as possible. Optimistic we will be included in larger tax package.
- Given massive tax bill in last Congress, not a strong appetite for doing anything on tax in this Congress. We are saying this is about infrastructure, safety and environmental, not energy.

Item 16 – Reinvigorating NHA's Technical Programming

- Chris Hayes provides update on HTC.
- Activities launched since March 2023: lunch and learn series, building technical depth via member engagement, benchmarking opportunities (operations/water quality).
- Asset Owner forums (1x per quarter): CDSE Roundtables (June 15, July 28, October 10), O&M Asset Owner forum (July 18, October 13), Senior leaders (May 19, October 13)
- Training opportunities provided: two hydro academy workshops held at WPW, May 18 meeting with FERC D2SI- 200 people attended, 80 asset owners, recorded and posted in Opex video library, lunch and learns, Clean Current workshop offerings.
- Educational Opportunities: what is the gap?
 - Several influencing factors: aging workforce and assets, erosion of technical expertise, new technologies, changing grid, budget constraints.
 - Need for professional development/continuing education hours
 - Formal and proactive wide-ranging hydro 101 course
- Why is NHA uniquely positioned?
 - Access to NHA membership base, 1-stop shop/360-degree coverage
- Next steps: establish advisory board to work on overall concept, develop curriculum, budgeting and fee structure over next couple months and come back in October with detailed plan for approval. Volunteers for advisory board- Sarah, Heidi, Meg, Chris Mattson, Eric, Thomas, Pam.
- Marla noted that half of exhibitors at Clean Currents are not NHA members and may participate in training.

Item 17 – Rolling Out Op-Ex Reimagined

- Chris and Anthony walked through new version on NHA website, discussed messaging, roll-out schedule, event report submissions.
- Reports cover maintenance, safety, operations, and environmental reports. Contains over 1,100 lessons learned and corrective actions. Human performance was a factor in 48% of the events.
- Jim Miller is under contract with NHA and assisting with Opex initiative
- Received 25 submissions in CY 22. 10 from PG&E. Only 9 reports received thus far this year.

• Roll out: June lunch and learn, use Member Playbook and committee meetings starting in August, webinar tutorial to demonstrate tool will be held.

Item 10 – U.S. DOE Manufacturing Supply Initiative

- Chris made presentation on manufacturing supply initiative.
- NREL and DOE draft report to be issued in August on Demand and Manufacturing Gap Analysis.
 - Includes domestic production capability discussion including supply chain analysis, turbine manufacturing, transformers, generators, and what makes hydro unique re transformers and generators.
- Final report expected by end of FY. Will include discussion on benefits of licensing reform and federal fleet discussion, programs incentivizing hydro and manufacturing, potential PTC and benefits, and recommendations.

Item 18 – Methane, 401 and Other Regulatory Issues

- Methane:
 - Anthony provides an update on methane emissions. Patagonia filed petition to add methane emissions from reservoirs with EPA. NHA has been watching it. EPA NOPR was issued recently and does not mention hydro.
 - NHA has developed white paper/fact sheet related to methane and hydro. Engaged with DOE and Oak Ridge on this. Still work to be done on fact sheet.
 - American Rivers and Hydro Reform Coalition are campaigning that hydropower generations emit methane. NHA is trying to figure out if there is any truth to this by changing stratification of where methane is in reservoir and running through turbine may cause degassing in certain specific conditions.
- 401:
 - Chuck provided update on ongoing litigation of Trump rule. Case will not move forward on merits of whether Trump rule is illegal or not but judge did not remand case to EPA. Judge will hold case to see what happens with the Biden rule. Concern that new rule will apply retroactively to all pending requests for certification in process at time rule becomes effective.
 - \circ New 401 rule still under review by OMB. Then will appear in Federal Register.
 - NHA is engaging on the Hill with Senator Capito's staff to make changes to 401 program nationwide. Proposed changes focusing on state authority to impose conditions on 401. No response back yet.

Item 19 – NHA Events

- Location of Clean Currents in 2025- #1 choice is Pittsburgh. Francesca to do site tour next week to be sure it is suitable.
- CC 2024 is in Portland, OR.
- CC 2023: Over 180 exhibiting companies already signed up. HydroVision only had 150. There were 34 NHA members that exhibited at HydroVision. Support froom AMP, Duke, and City of Hamilton. Make reservations to come in Monday night for Board meeting dinner and will go through Friday.

Item 20 – New Business

- Thomas: Need to carve out time to have a deeper conversation on DEI as a group. Will plan on that in October or December.
- Renewables Forward is trying to restructure, currently financed by solar companies, but providing benefits to all industries. It wants to rebrand and have it paid by trade associations and have them sit on the Board rather than individual companies. Asking NHA to make a \$200,000 payment. NHA needs to decide if it will contribute and if so how much.

Action items:

- NHA to circulate Hydropower Vision Roadmap survey for more industry participation (open through Friday).
- Register for Clean Currents.
- Board members to provide egregious examples of Section 18 fishway prescriptions for Uncommon Dialogue discussions.
- Board members to provide letter of support for S.1521 (relicensing reform) and/or email your Senator to ask them to cosponsor the bill.
- Board members should provide mock-up of digital ad to comms staff and provide feedback.
- NHA will re-circulate list of funding opportunities prepared by Anthony.
- NHA to circulate presentations from Board call.

Item 21 – Executive Session

- Jeff moved to go into Executive Session, Mike Haynes seconded.
- Jeff moved to conclude Executive Session, Eric seconded.

Carl moved to adjourn meeting, Meg seconded. All approved. Meeting adjourned at 12:28 pm Eastern.



2023-26 NHA's Goals and Strategies

August 22, 2022

GOALS: To continually improve NHA's core value proposition, NHA will enhance the organization's ability to:

<u>ADVOCATE</u> to preserve, enhance, and expand the use of waterpower generation to advance a 21st century clean energy grid.

<u>CONNECT</u> member organizations and their employees with other waterpower professionals to build relationships, exchange knowledge, and facilitate business.

<u>INFORM</u> members, the industry, policy makers, and stakeholders about timely industry-related policy and technical developments and how those developments will affect the industry; and the many public benefits provided by waterpower.

<u>IMPLEMENT</u> internal operational practices for the association that will ensure a high-performing, effective organization.

STRATEGIES: NHA will implement the following strategies, specifically targeted for each of the organization's goals:

<u>ADVOCATE</u> to preserve, enhance, and expand the use of waterpower generation to advance a 21st century clean energy grid.

To achieve this goal, NHA will leverage its policy committees/councils, specifically those focused on legislative, regulatory, markets, pumped storage, small hydropower, marine energy, and deep dive policy. Strategies to achieve this goal will include:

- Improving the license and relicensing process;
- Achieving tax parity with other renewables;
- Shaping wholesale markets to more fully compensate hydropower for the value it provides;
- Ensuring parity with other renewables in any climate or energy policy;
- Growing federal RD&D funding for marine energy, pumped storage, and conventional hydropower technologies;
- Raising the visibility among lawmakers of hydropower as an essential element of a reliable grid;
- Nurturing relationships with key lawmakers and their staffs to ensure NHA is the go-to source for information and ideas about supporting the waterpower industry; and
- Engaging in key states for waterpower as a resource.

<u>CONNECT</u> member organizations and their employees with other waterpower professionals to build relationships, exchange knowledge, and facilitate business.

To achieve this goal, NHA will leverage its various policy and technical committees, as well as its advisory committees focused on NHA national events (Clean Currents and Waterpower Week in Washington), Regional Meetings, and the Future Leaders of Waterpower (FLOW). Strategies to achieve this goal will include:

- Establishing Clean Currents Conference + Tradeshow as THE Industry Event, providing a one-stop shop for connecting with the full breadth of the waterpower industry;
- Leveraging Waterpower Week in Washington to expand the waterpower industry's voice on Capitol Hill, with the Administration, and with regulators, and to facilitate industry peer-to-peer engagement;
- Enhancing NHA's Regional Meetings to provide more local focus, more intimate networking, and regionally-specific knowledge exchange among asset owners and product/service suppliers; and
- Providing forums for sharing operational experiences, with the objective of maintaining project operational excellence and human safety.
- Promoting diversity in speakers and attendees at all NHA's events to accelerate the industry's transition to look more like the customers we serve.

INFORM members, the industry, policy makers, and stakeholders about timely industry-related policy and technical developments and how those developments will affect the industry, and the many public benefits provided by waterpower.

To achieve this goal, NHA will leverage its technical committees/councils. Strategies to achieve this goal include:

- Informing NHA members webinars, and committee/council-specific convenings;
- Informing industry and those affecting the industry by enhancing *NHA's POWERHOUSE* as the go-to industry media platform;
- Informing the general public though a multi-faceted social media campaign to raise awareness of the benefits of hydropower, particularly among those aged 25-40.

IMPLEMENT internal operational practices to ensure a high-performing, effective organization.

Strategies to achieve this goal include:

- Maintaining NHA's financial health;
- Implementing diversity, equity, and inclusion in all aspects of NHA's activities;
- Preserving NHA's membership retention rate; and
- Deepening the level of member engagement, including cultivating a larger pipeline of industry talent.



2023 NHA Priority Actions

August 22, 2022

<u>ADVOCATE</u> to preserve, enhance, and expand the use of waterpower generation to advance a 21st century clean energy grid. 2023 priorities include:

- Streamlining Licensing and Relicensing Grow stakeholder coalition and cultivate relationships with members of the Senate Energy and Natural Resources Committee and House Energy & Commerce Committee to introduce a bipartisan legislative reform package in both the House and Senate that reflects NHA's licensing and relicensing priorities.
- Creating Tax Support to Preserve and Enhance Existing Hydropower Grow stakeholder coalition and cultivate relationships with members of the Senate Finance and House Ways & Means Committees to advance federal tax support for preserving and enhancing existing waterpower resources (including direct pay for public power).
- Investing in Waterpower RD&D Deepen relationships with members of the Senate and House Appropriations Committees to increase federal RD&D funding for marine energy, pumped storage, and conventional hydropower technologies.
- Effective Implementation of DOE's Bipartisan Infrastructure Grants and the Inflation Reduction Act Actively engage with DOE to ensure that the \$900M+ secured for waterpower in the Bipartisan Infrastructure law is effectively distributed, and with Treasury and others as appropriate to ensure effective implementation of the Inflation Reduction Act.
- **Retrofitting Non-Powered Dams** Cultivate relationships with members of the Senate Environment and Public Works and House Transportation & Infrastructure Committees to enact into law provisions streamlining the USACE process for adding generation at NPDs.
- Valuing Reliability Services in Wholesale Electricity Market Design Engage with FERC and RTO/ISOs and states to increase awareness of the essential reliability services provided by hydropower and pumped storage, particular in proceedings related to capacity accreditation, energy and ancillary services reforms, and/or other RTO/ISO initiatives.
- Avoiding Unnecessary Regulatory Barriers Engage with federal agencies to ensure that the waterpower industry's priorities are incorporated into key regulatory proceedings, including FERC's financial assurance proposal and EPA's proposed CWA 401 rule.

<u>CONNECT</u> member organizations and their employees with other waterpower professionals to build relationships, exchange knowledge, and facilitate business. 2023 priorities include:

• Attracting Asset Owners to Clean Currents - Outcompete competition by making CC23 a "must attend" event for asset owners.

- Using Waterpower Week to Enhance NHA's Advocacy Efforts Expand Hill staff participation, Hill meetings, and number of advocacy professionals (government affairs, regulatory, licensing, etc.) engaged in Waterpower Week in Washington.
- **Promoting DEI at All NHA Events** Accelerate the industry's transition to look more like the customers we serve by promoting diversity in speakers and attendees at all of NHA's events.

INFORM members, the industry, policy makers, and stakeholders about timely industry-related policy and technical developments and how those developments will affect the industry, and the many public benefits provided by waterpower. 2023 priorities include:

- Expanding NHA's Social Media engagement develop and implement systematic social media engagement (focusing specifically on LinkedIn, Twitter, Facebook and Instagram) to expand reach to both industry members and the general public, with the goal of increasing followership by 10 percent across media channels.
- **Reaching 1M+ Millennials** raise awareness and appreciation of waterpower as an essential part of a reliable, clean energy grid by reaching at least 1M+ millennials (ages 25-40) via targeted, paid digital media campaign with at least 7x frequency.

IMPLEMENT internal operational practices to ensure a high-performing, effective organization. 2023 priorities include:

- **Deepening Member engagement** deepen member engagement in NHA programming and events (as compared to 2022).
- **Executing Office Relocation with Minimal Disruptions** implement office move without adversely impacting organizational performance.
- Retaining NHA Staff retain talent at all levels of Team NHA.

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 twentyone (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 cochairs 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 2	023 Executive Committee - Updated Se	ptember 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	2025
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)	601 New Jersey Ave NW, Suite 660	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	shbiddle@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
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	2025
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	2023
Eric	Van Deuren	Pacific Gas & Electric Co	1649 Canal Street	Auburn, CA 95603	Eric.VanDeuren@pge.com	(916) 208-7409	2024
Heidi	Wahto	Stantec	2353 130th Ave NE, Ste 200	Bellevue, WA 98005	heidi.wahto@stantec.com	(425) 602-3514	2023
Telui	Wanto	Stantet	Advisory Board	Bellevue, WA 98003	neidi.wanto@stantec.com	(425) 002-5514	2020
Joel	Ledesma	SMUD	7606 River Ranch Way	Sacramento, CA 95831	ile de sur e 1 @ ek erel ek el a et	(010) 050 2020	
		HDR		,	jledesma1@sbcglobal.net	(916) 956-3830	
Sarah	Kulpa		440 S. Church Street	Charlotte, NC 28202	sarah.kulpa@hdrinc.com	(315) 415-8703	
Romain	Pellegrino	GE Renewable Energy	5005 Boul. Lapiniere BP 75	Brossard QC J4Z 0N5 Canada	romain.pellegrino@ge.com	(438) 342-5182	
Dan	Petcovic	CalWave Technologies	1 Sapphire Ct.	Hercules, CA 94547	dan@calwave.energy	(858) 752-2354	
Rich	Wallen	Grant County PUD	P.O. Box 878	Ephrata, WA 98823	rwallen@gcpud.org	(509) 754-6744 ext. 2515	
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Malcolm	Woolf, CEO	President and CEO			mwoolf@hydro.org	(301) 767-6698	
Matthew	Allen	Director of Legislative Affairs			matthew@hydro.org	(202) 993-0660	
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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	
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	
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	

Committee Leadership	First Name	Last Name	Organization Name	Email	Phone
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lydropower Technicial Community - Vice Chair	Phil	Cantarinha	Yuba	pcantarinha@yubawater.org	(530) 741-5000
HTC Advisory Leadership Member	Ellen	Faulkner	Ayres Associates	faulknere@ayresassociates.com	(715) 559-0779
TC 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
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Hydropower Technicial Community - Dam Safety					
Subcommittee - Chair	Seth	Green	Southern Company	sjgreen@southernco.com	(205) 257-6607
Hydropower Technicial Community - Dam Safety					
Subcommittee - Vice Chair	Jillian	Lawrence	Patriot Hydro, LLC	jlawrence@patriothydro.com	(856) 906-0180
Hydropower Technicial Community - OpEx			WEST USA, Inc. Water Energy Systems &		
Subcommittee - Chair	Carl	Brewster	Tests	carl.brewster@west-hydro.com	(855) 937-8871
Hydropower Technicial Community - OpEx					
Subcommittee - Vice Chair	Scott	Korab	Ballard Marine Construction	scott.korab@ballardmc.com	(206) 753-0021
D&M Chair	Scott	Romero	U.S. Army Corps of Engineers	scott.f.romero@usace.army.mil	(252) 665-3191
D&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			
	Ch. J	N 4 - 1 1 - 1			(252) 444 4450
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 Markets - Vice Chair	Jamie	Simler	Ameren	jsimler@ameren.com	(202) 783-7606
NHA Rep	Michael	Purdie		janner@ameren.com	(202) 703-7000
in nep	WICHdel				
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			(303) 001 4320
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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			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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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		· · / · · C · · · · · · · · · · · · · ·	,,/ //

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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 - Vice Chair	Dan	Petcovic	Oregon State University	dan@calwave.energy	(858) 752-2354
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
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