

WASHINGTON, D.C. • MARCH 13-15, 2024



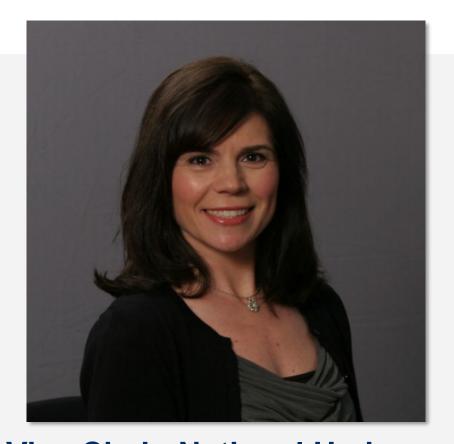


# NHA Honors Cathy McMorris Rodgers with Water Power Legacy Award

Congresswoman, 5th District, R-Washington U.S. House of Representatives







Co-Vice Chair, National Hydropower
Association Board of Directors
and
Principal, Licensing and Regulatory Lead,
Stantec

# Waterpower Week Supporters:





# Plenary Session Supporter









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# Kirk Hudson General Manager, Chelan County Public Utility District





# U.S. Congresswoman Kim Schrier (WA-08)

T 10

COWLITZ

Source: Washington CLARK

YAKIMA











# NHA Honors Kim Schrier with Hydro Legislator of the Year Award

Congresswoman, 8th District, D-Washington U.S. House of Representatives









# Malcolm Woolf

NHA President and CEO





# Malcolm Woolf

NHA President and CEO





# Section 242

Section 242: Hydroelectric Production Incentive Program

#### **Program Overview:**

Provides incentive payments for electricity generated and sold

\$125M in Bipartisan Infrastructure Law Funding

#### October 11, 2023 Announcement Awardees:

#### \$36.7M

18 States, 66 Facilities -- 37% NHA Members 1,382 (GW-hr) Electricity generated and sold in CY21 CY22



\$74.8M

\$13.5M

\$36.7M



# Section 243

Section 243: Hydroelectric Efficiency Improvement Incentive Program

#### **Program Overview:**

Provides incentive payments to existing facilities making capital improvements that enhance efficiency by at least 3%

\$75M in Bipartisan Infrastructure Law Funding

Existing hydropower, including pumped storage, placed in service before November 15, 2021

#### February 2, 2024 Awardees:

Up to **\$71.5M** 

Create estimated \$468M in combined federal and private investment

19 States, 46 facilities – <u>67% NHA Members</u> 904MW of capacity upgraded, 14% more efficient Facility average age 75 years



\$71.51

\$396.5M



# Tugalo Dam Georgia Power



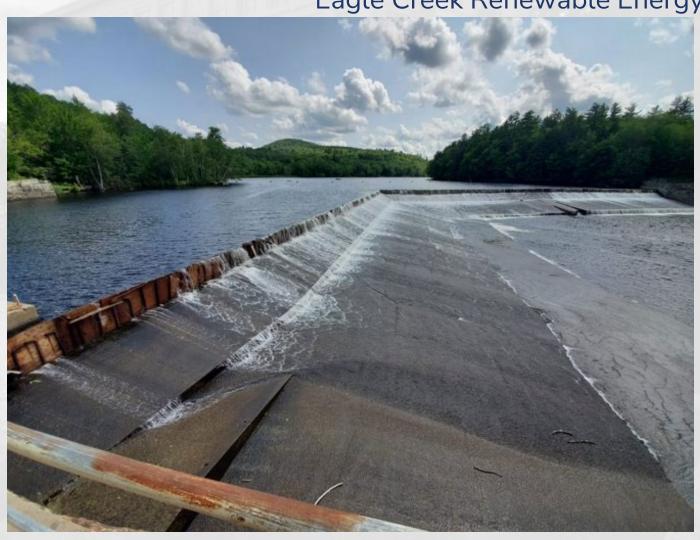


# Seneca Falls Gravity Renewables





# Andro Hydro Riley Rubber Dam Eagle Creek Renewable Energy





# Section 247

# Section 247: Maintaining and Enhancing Hydroelectricity Incentives

#### **Program Overview:**

Provides investment in capital improvements related to improving grid resiliency, improving dam safety, and environmental improvements

\$553M in Bipartisan Infrastructure Law Funding

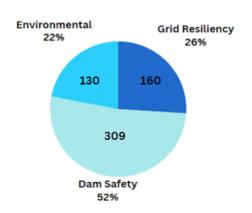
#### **Award Timeline:**

Application closed October 6, 2023

GDO reports it received <u>599 LOIs</u> for the Section 247 program with requests for funding totaling **\$823M**.

Announcements expected in Spring 2024

#### Section 247 Program Letters of Intent





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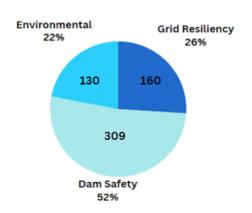
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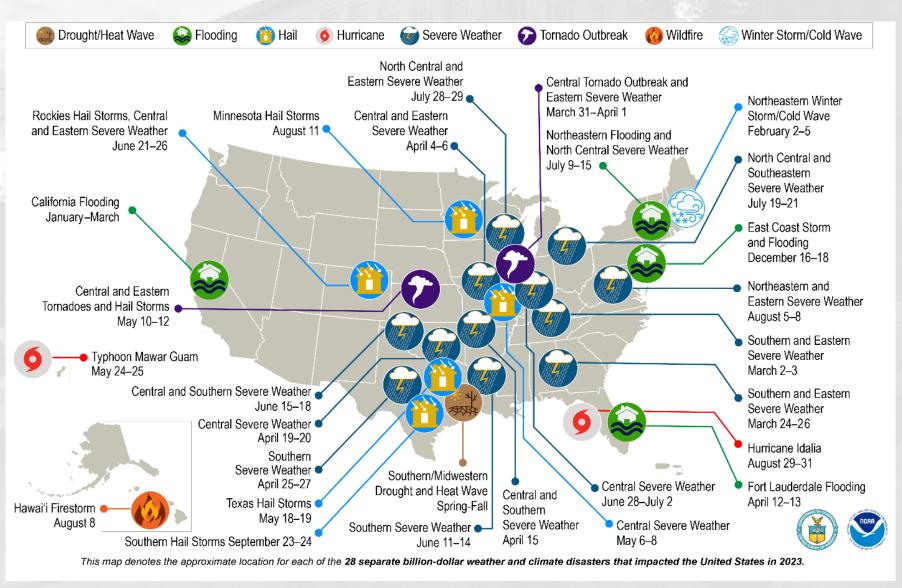
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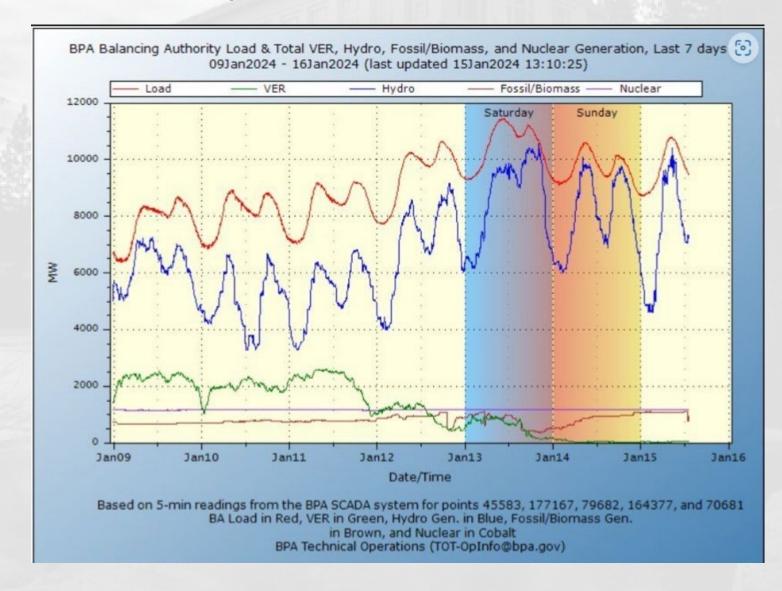
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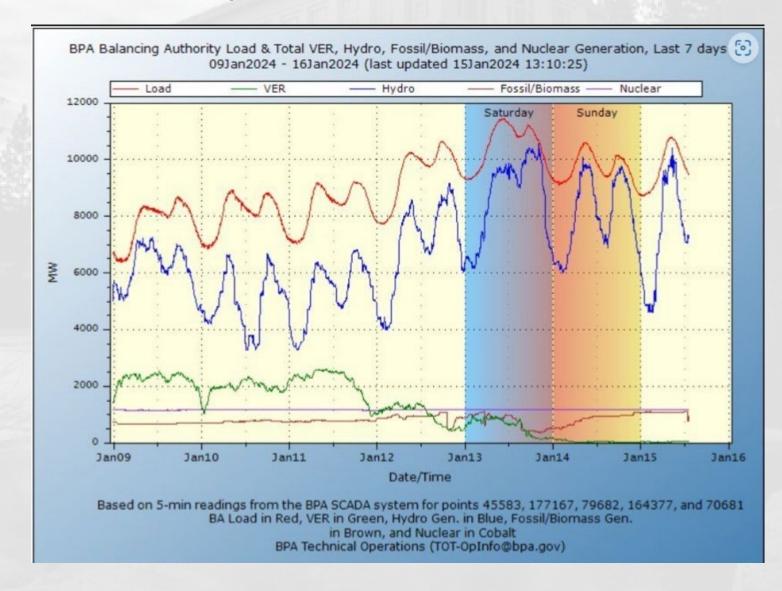
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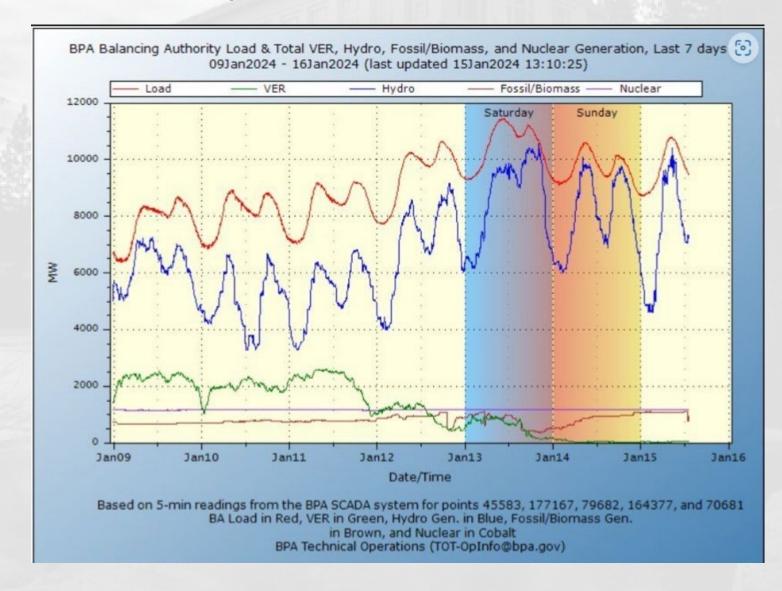


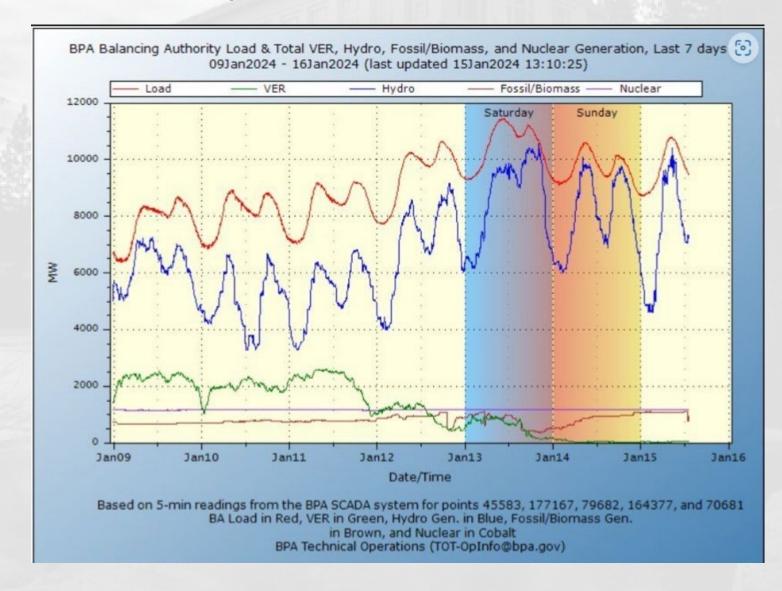
# 2023 Billion-Dollar Weather and Climate Disasters













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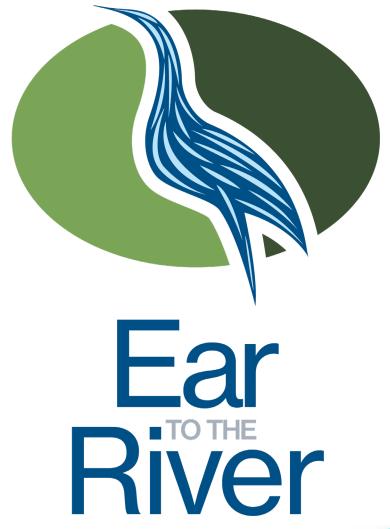




# Timothy Oakes Vice President, Kleinschmidt













Powered by: **Kleinschmidt** 

### View the Report













**Del Shannon** 

President, Hydropower Foundation Chief Dam Engineer Kiewit Engineering Group Inc.





# **Jacob Macdonald**

Structural Engineer Kiewit



# Hydropower Foundation Waterpower Week March 13, 2024 Del Shannon & Jacob MacDonald



# Mission & Vision

### Mission & Vision:

 Develop a robust waterpower workforce through programs, scholarships, education partnerships and similar initiatives





## Need for Hydro Professionals

- ♦ Recent NREL Report:
  - 9,000 hydropower professionals retire by 2030

  - ♦ 77% of college graduates have limited knowledge of hydropower
  - ♦ 23% know nothing about hydropower

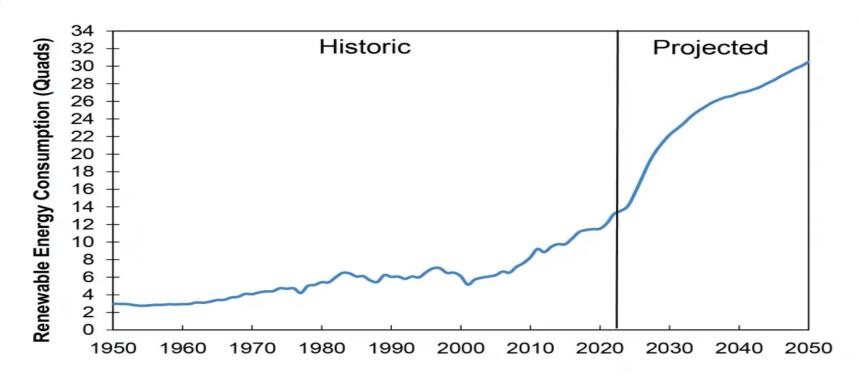


## Need for Hydro Professionals

- - Electricity Demand
  - Aging Infrastructure
  - Shifting Climates



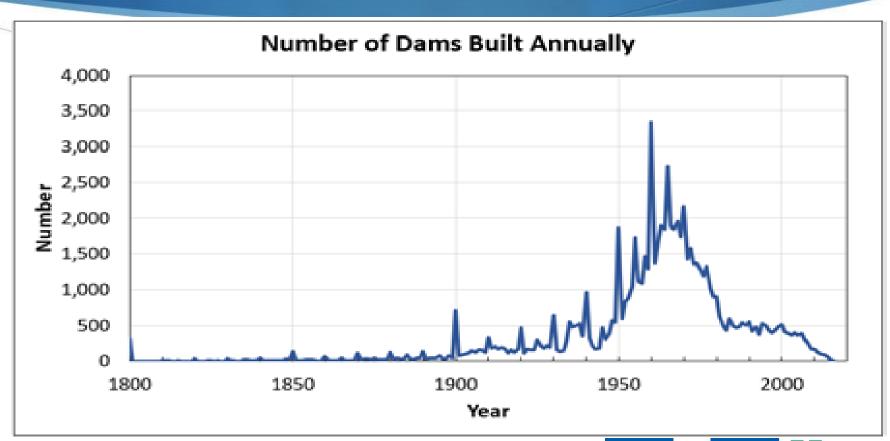
# Need for Hydro Professionals: Electricity Demand



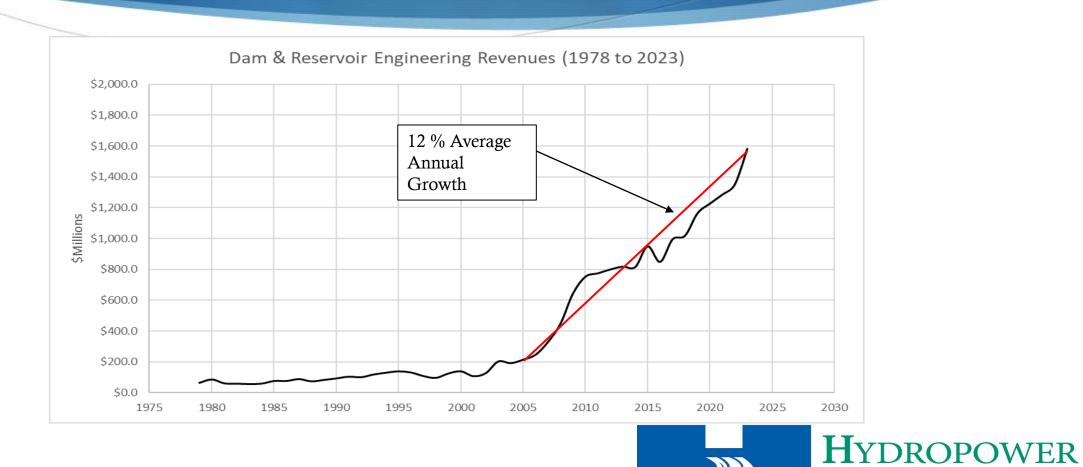
University of Michigan, Center for Sustainable Systems

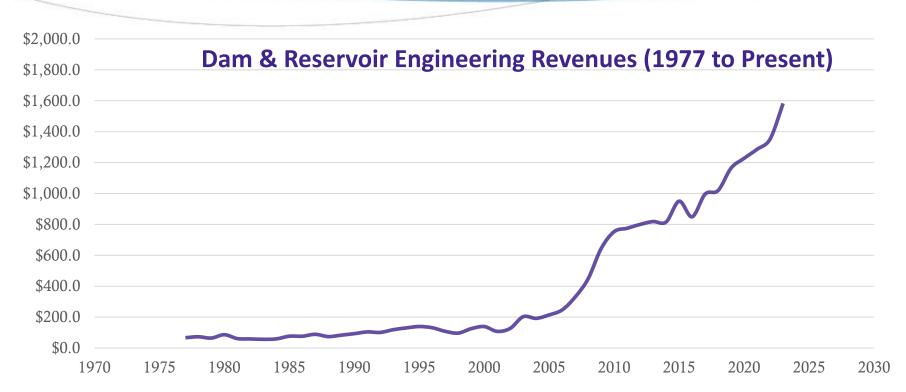
1 Quad = 1 Quadrillion Btu's



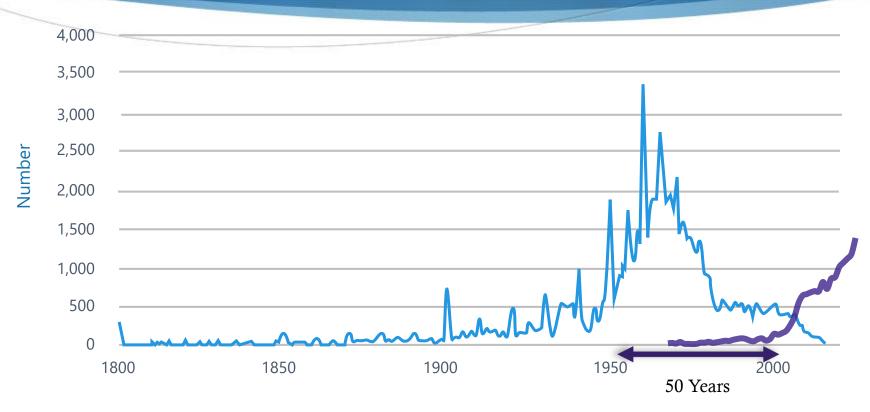








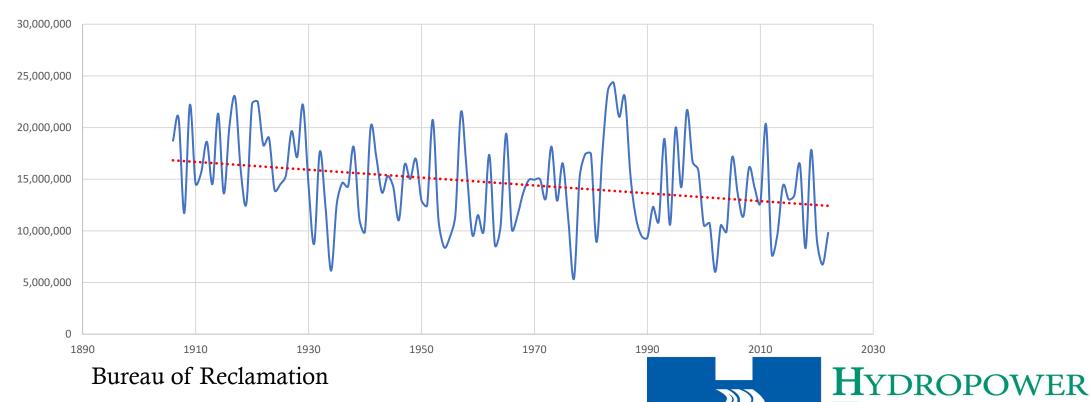






# Need for Hydro Professionals: Shifting Climates

Colorado River Total Annual Yield: 1906 to Present (Million AF)



## Need for Hydro Professionals: Perspective



## Hydropower Foundation: Taking Action

- ♦ WC² University Clubs
- Hiring For Hydro
- Student Scholarships
- Hydro Think Tank
- ♦ Hydro Collegiate Competition with NREL
- Fundraising



## WC<sup>2</sup> University Clubs



















## Hiring for Hydro

- Student Industry Conference
- Prepares students for interaction with industry





## Scholarship Programs Current Project

- Three scholarship funds
  - Julie Keil Scholarship (women focused)
  - Mike Sale Memorial Scholarship
  - MHUG for students in the Midwest











### Hydro Think Tank

- Student team competition
- Cash prizes for solving real-world problem
- Next Events:
  - Chelan County, WA, Rocky Reach Dam, August 2024
  - TVA in Chattanooga, TN in 2025



# Hydro Collegiate Competition with NREL



- Hydropower Collegiate Competition.
- ♦ 150 Students at Waterpower Week in 2023.
- Second year at MHUG in Des Moines, Iowa – Co-Sponsored by NHA and MHUG



## Fundraising

- DOE and Federal agency grants
  - Proposing on \$1 million grant
- Other foundations
- Fundraising events





## Fundraising

Corporations,Organizationsand Individuals





### Website

## www.hydrofoundation.org



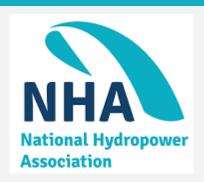


# Matt Allen Director of Legislative Affairs, National Hydropower Association









## **ADVOCACY DAY**

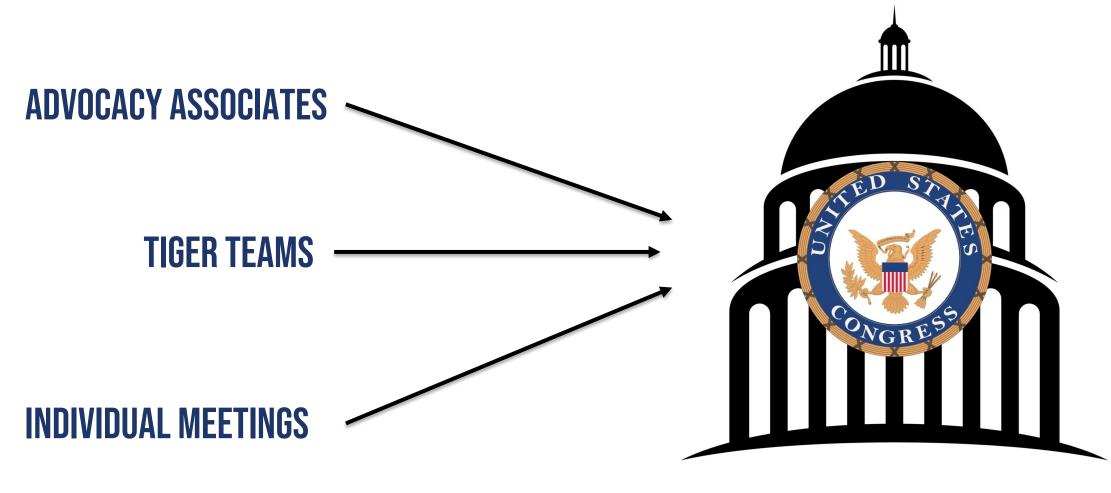
**MARCH 2024** 







## ADVOCACY DAY





### THE POWER OF EFFECTIVE ADVOCACY

#### **MOST EFFECTIVE**

- In-person Issue Visits from Constituents (94%)
- Contact from
   Constituents' Reps (94%)
- Individualized Email
   Messages (92%)

#### **LEAST EFFECTIVE**

- Form Email Messages
   (56%)
- Petitions (49%)

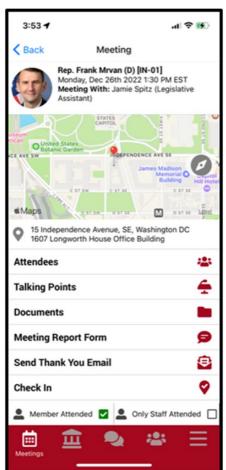




### **ADVOCACY DAY PREPARATION**

#### Advocacy Day App





#### NHA Website

DOE GED DEPLOYMENT OFFICE (SOC):

Advocacy Day 2024 One Pagers















NHA Website Link: https://www.hydro.org/advocacy-daywpw/#onepagers

### NOT PARTICIPATING IN ADVOCACY DAY?

Join the following federal agencies for a meet in greet from 12:30pm – 5pm in the Congressional room



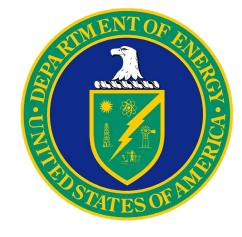
















## Plenary Session Supporter









## **Detailed Conference Program**

Scan the QR code for the detailed conference program









## Who's Speaking?



Scan this QR code for full listing of Waterpower Week Session Leaders and Speakers







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## Today's Plenary Supported By:







### WATERPOWER WEEK GOLD CHAMPION







#### WATERPOWER WEEK SILVER CHAMPIONS









#### WATERPOWER WEEK CHAMPIONS













#### WATERPOWER WEEK SUPPORTERS

















#### WATERPOWER WEEK SUPPORTERS







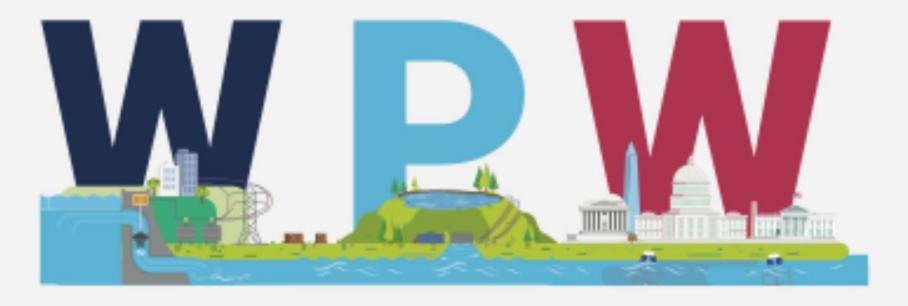












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