Workshop by ICOLDs ad hoc Committee on Gender Diversity & Inclusion Sunday September 29th 2024, 14:00-16:00



Charging forward with Gender Diversity & Inclusion

Global outlook, survey findings & actions by ICOLD National Committees





Ad hoc Committee on Gender Diversity & Inclusion 2023-2025





ICOLD 2024 – 92nd Annual Meeting – Workshop: Charging forward with Gender Diversity & Inclusion

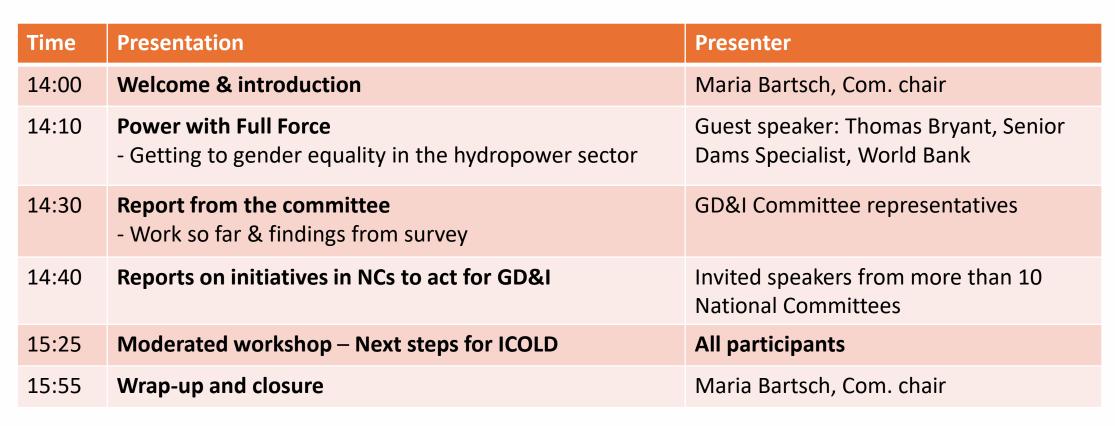
Overall purpose of the committee is to



- Explore how ICOLD can be inclusive to all genders
- Raise the awareness and educate on gender aspects within ICOLD
- Support and promote increasing participation of female professionals in the dam sector



Charging forward with GD&I in ICOLD Workshop program





ICOLD 2024 – 92nd Annual Meeting – Workshop: Charging forward with Gender Diversity & Inclusion

Interactive workshop



- CIGB ICOLD
- a) Where do you come from?
 b) Woman, man, other?
 c) What would you like to know more about/discuss?

From t.o.r: Co-operate with NCs to identify goals, action items and good examples

ICOLD 2024 – 92nd Annual Meeting – Workshop: Charging forward with Gender Diversity & Inclusion

Power with Full Force

- Getting to gender equality in the hydropower sector

Thomas Bryant, Senior Dams Specialist, World Bank



Energy Sector Management Assistance Program



HE WORLD BANK

ICOLD 2024

Power with Full Force: *Getting to Gender Equality in the Hydropower Sector*

Presenter: Thomas Edward Bryant (Senior Dams Specialist , tbryant@worldbank.org)

Contents

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

I. Hydropower and Gender

• Why we are all here

II. Women's Employment in the Hydropower Sector

• Baseline and representation of women in the sector

III. Barriers to Gender Equality in the Hydropower Sector

• Overview of Barriers

IV. Recommendations

- How to close gender gaps
- Case Study

V. Conclusions





Power with Full Force: Getting to Gender Equality in the Hydropower Sector



https://www.esmap.org/Gender-and-Hydropower





Energy Sector Management





I. Hydropower and Gender

Why are we here?

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

3.7 M jobs are needed in the Hydropower sector by 2050



Also tackling climate change goals.

Including more men and women is needed. However...

Including more women in the sector will lead to:

- Poverty reduction
- Improved business results
- Better and efficient decision making
- Better work environment



Literature Review.

900 online survey responses.

60 in-depth interviews. Development of case studies.



6

4

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

Methology







ESMAP

Energy Sector Management Assistance Program





II. Women's Employment in the Hydropower Sector

Women are Underrepresented in the Hydropower Sector

Power with Full Force: Getting to **Gender Equality in the Hydropower** Sector

79

Non-Technical

Distribution of men and women in the energy Survey results: Distribution of Women by sector (Percentages) Type of Role (Percentages) Hydropower 25 100 75 **Oil and Gas** 22 50 25 **Renewables** 32 21 0 20 Technical 0 40 60 80 100 120 Women Men Source: The World Bank, 2023

Source: The World Bank, 2023



8

Women are Underrepresented in the Hydropower Sector Management

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

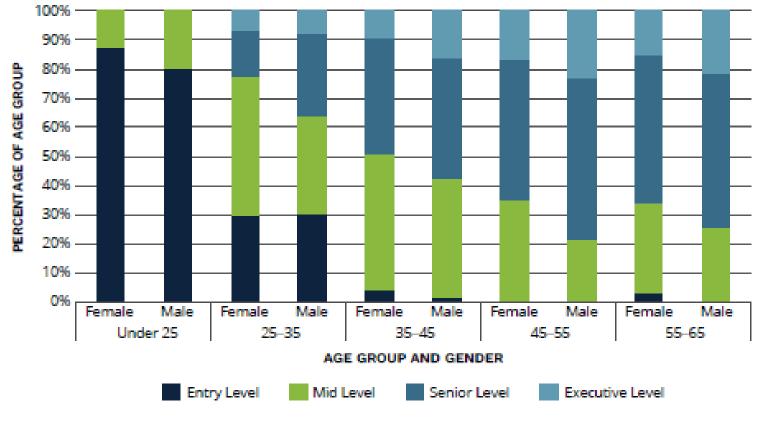




Women progress less than men

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

Self-Reported Career Level of Survey Respondents, by Sex and Age Group





ESMAP

Energy Sector Management Assistance Program





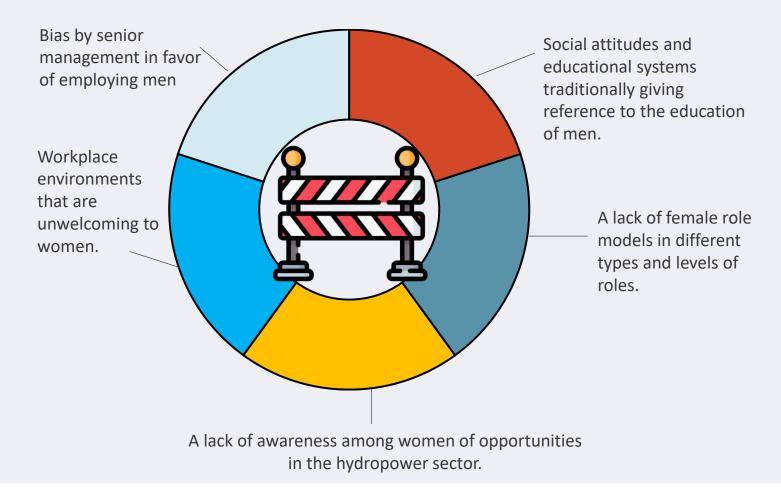
II. Barriers to Gender Equality in the Hydropower Sector

Barriers that explain the gender gap

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

Most frequent barriers found in literature review,

surveys responses, interviews and focus groups





Barriers that explain the gender gap mostly commonly selected by female and male respondents

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

Low proportion of women with relevant STEM skills

Lack of awareness of opportunities in the sector

Lack of interest among women





Workplace environments that are unwelcoming to women

Lack of female role models



of opportunities in the sector



Bias by senior management



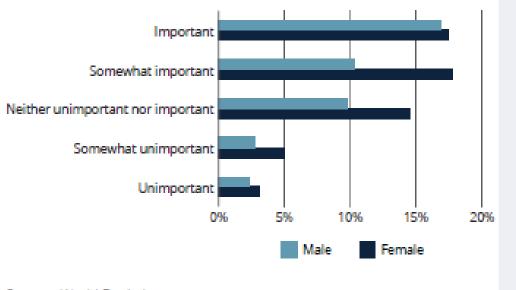
TOSHIBA

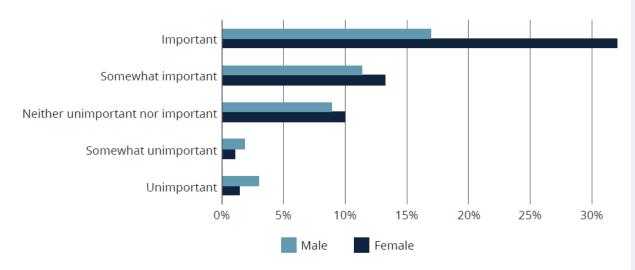
Female Participants

Women perceive gender diversity to be important for their workplace... men are less convinced

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

Perception of the Importance of Gender Diversity for the Company (and CEO), by Sex Perception of the Importance of Gender Diversity (for Self), by Sex/How Important is Gender Diversity in the Workplace to Your Company, to You?

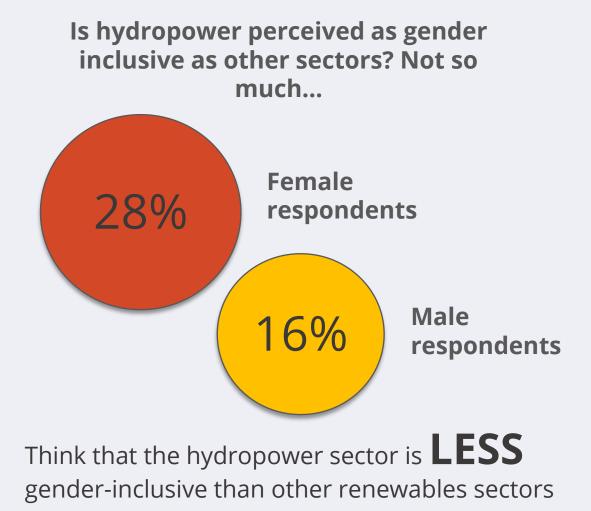




Source: World Bank data.

Perceptions of the Hydropower Sector and Workplace Environments

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

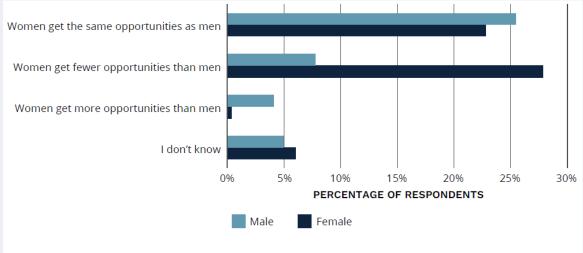




Perceptions of the Hydropower Sector and Workplace Environments

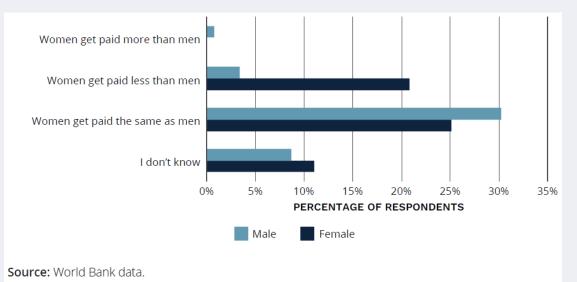
Power with Full Force: Getting to Gender Equality in the Hydropower Sector

Perceptions of the Gender Opportunity Gap in Hydropower Companies



Source: World Bank data.

Perceptions of the Gender Salary Gap in Hydropower Companies





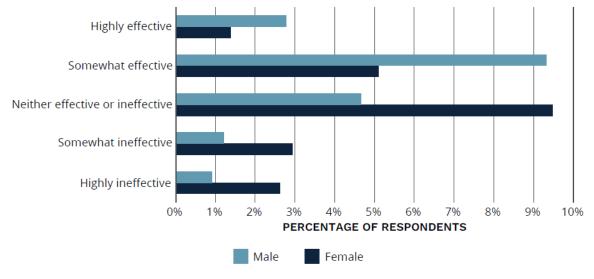
Timid Efforts to Improve Women's Participation: Gender Policy Implementation Limitations on Work-Life Balance Benefits

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

The percentage of companies with gender policies



Efficiency of Gender Policies at Workplace, by Sex

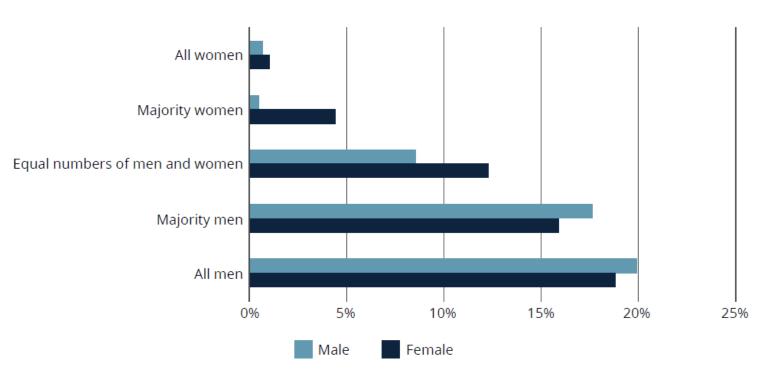


Source: World Bank data.

Lack of Female Role Models in the Sector

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

Career Progress: Survey Responses, by Sex, to the Question "What Was the Gender of the Senior Staff Members Who Supported Your Career Progress?"



Source: World Bank data.





Energy Sector Managemen Assistance Program





IV. Recommendations

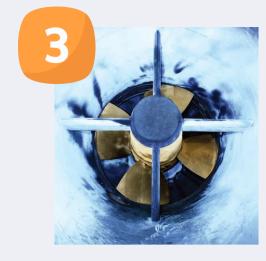
Main recommendations to close the gender gaps



Start With Education and Implement Actions to Remove Constraints for More Women to Pursue Stem Degrees



Identify Gender Gaps in the Workplace and Enact Policies to Close Them Power with Full Force: Getting to Gender Equality in the Hydropower Sector



Raise Awareness to Promote Hydropower as an Appealing Career for Women



Provide Mentoring, Role Models, and Networking Opportunities for Women



Include More Men in the Gender Inequality Discussion and Encourage Them to be Proactive to Reduce the Gaps



Case Study: Public Enterprises of Medellin (Colombia)



Power with Full Force: Getting to Gender Equality in the Hydropower Sector

Silver Seal Award for Gender Equality



Inclusive Recruitment and Policies



Workplace Environment Improvements

Future Goals and Leadership Support



- In 2021, EPM was awarded a Silver Seal from Equipares for its commitment to gender equality.
- This recognition followed a two-year process of identifying and addressing gender gaps.
- An independent audit verified EPM's progress, granting a score of over 98%.

- EPM attracted more women by renaming 235 job titles to be more inclusive.
- They created a community of women engineers and technicians.
- EPM **removed** photo, age, and gender requirements from resumes.
- They ensured **gender balance in high-level recruitment**.

- EPM launched campaigns to promote gender equality.
- They encouraged a "new masculinity" by supporting men in taking care leave.
- EPM raised awareness of the Committee for Labor Coexistence to protect against workplace harassment and stress.

- EPM is pursuing the Equipares Gold Seal for further gender equality recognition.
- The company acknowledges the need for **continuous improvement** in gender equality.
- This effort is supported by the enthusiastic backing of top management.

XESMAP

Energy Sector Management Assistance Program





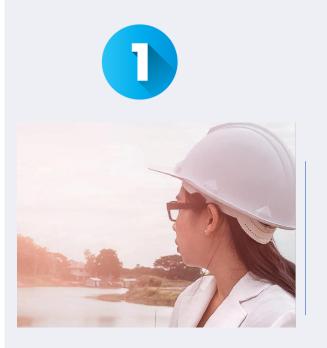
V. Conclusions

Conclusions after learning what we know now...

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

NEXT

_



There are unique barriers women face in the hydropower sector.



More information is needed. Gender Equality cannot be just left to HRD. It requires behavioral changes.

3

There is a lot to be done.



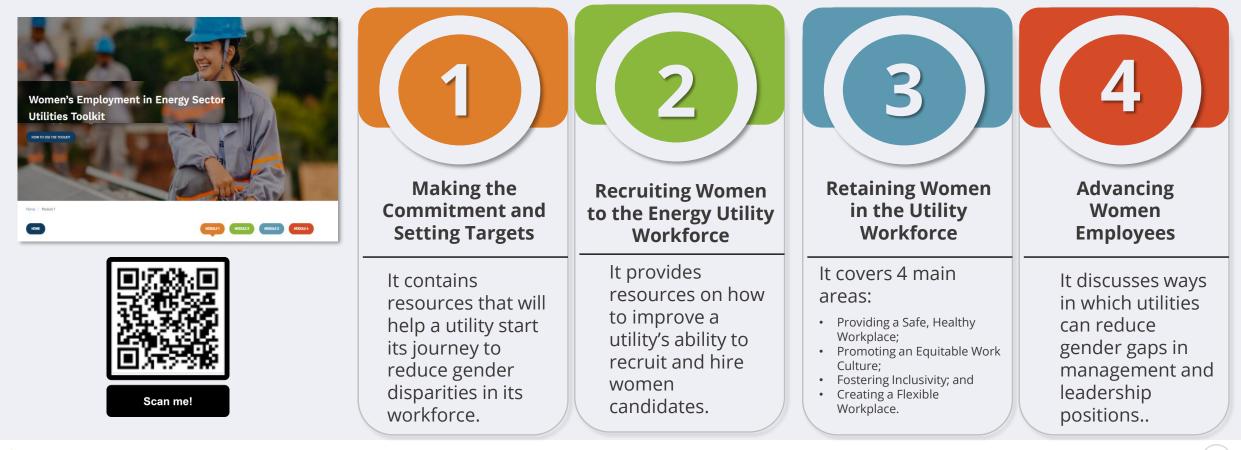
ESMAP Women's Employment in Energy Sector Utilities Toolkit

ESMAP

THE WORLD BANK

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

A "one-stop shop" for advice and resources on how to bolster women's employment in energy utilities. It contains links to free, publicly available tools and resources aimed at addressing the barriers women face in the energy sector https://www.esmap.org/gender-and-energy-toolkit



ESMAP Resources

Power with Full Force: Getting to Gender Equality in the Hydropower Sector

- <u>https://www.esmap.org/</u>
- <u>https://energydata.info/</u>
- <u>https://mtfenergyaccess.esmap.org/</u>
- <u>https://rise.esmap.org/</u>



THE MUCHES

RD. IDA



shine

I THE TOTAL

The also

THANK YOU.

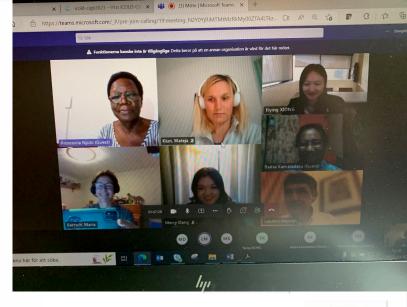
Bente Burnes - bbrunes @worldbank.org Thomas Bryant - tbryant@worldbank.org

Report from the committee- work so far & findings from our survey

Maria Bartsch, Sweden & Mateja Klun, Slovenia

What have we been doing

- Informal kick-start at ICOLD 2023
- Identifying existing initiatives & potential partners
 - World Bank-ESMAP study on women in hydro Power with Full Force Getting to Gender Equality in the Hydropower Sector (worldbank.org)
 - Several independent initiatives
 - New network connecting existing groups created: WISH!
- Connecting with WISH <u>Women In Sustainable Hydropower</u>
 - Common website under iha, informal gathering place, links
 - Online meetings, ICOLD invited as guest
 - Share information, explore common actions, share best practices
 - Plan to soon launch common LinkedIn, logo...





Women In Sustainable Hydropower

Hydropower needs to double by 2050 if we are to meet climate goals. We need the proadest possible pool of talent working to achieve this. Welcome to WISH.

ICOLD 2024 – 92nd Annual Meeting – Workshop: Charging forward with Gender Diversity & Inclusion

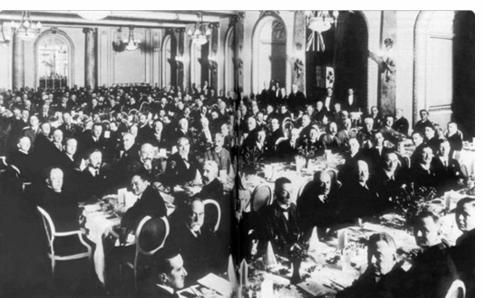
Assessing the current situation in ICOLD

Historically

- No considerations related to representation of female professionals
- Close to no women in leading positions or communications
 - Secretary general, president, vp's, TC chairs
 - Congress session officers
 - Newsletters, authors of articles
 - Award winners
- Gender distribution <u>not</u> monitored

Recent initiatives

- YPF (diversity in age), mentorship lunches
- Change to gender neutral language
- This ad hoc committee
- Annual meeting host considering & monitoring representation of women (ICOLD2023)





ICOLD 2024 – 92nd Annual Meeting – Workshop: Charging forward with Gender Diversity & Inclusion

Survey to ICOLD NCs – Establish baseline & map activities

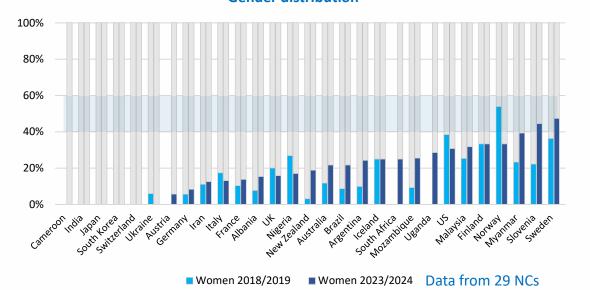
urvey on gender diversity - to be ans							
his study is performed by the ICOLD Comm	ittée on Ger	nder Diversity	and Inclusion. The purpose	e of the survey is to	o map the existing	g gender distribution w	ithin ICOLD National Committees
nd their activities, to establish a baseline.							
lease respond before March 15, 2024. Send	d the questi	onnaire to coi	mmittee chair <u>maria.bartsch</u>	<u>@svk.se</u> with copy	y to icoldgdisurve	ey@gmail.com, or reply	online via the webb link provided
n the email.							
lease fill in light blue fields							
Leave blank if not applicable/available in yo	ou National	Committee.					
1 - Please provide contact information	on and ge	neral inform	ation about the nation	al Committee.			
ate							
ounty							
ame of National Committee							
ear when NC was established							
ame and position of repondent							
ontact info - email							
ame and postion of contact for further more in	-						
epth exchange (if other than above)							
ontact info - email (if other than above)							
2 - National Committee is organization	on, its mai	n tasks and	activities. Please give a	short desciption	. This question	n is not mandatory b	out can help us to understand
escribe NC organization including leadership,							
outines for renewal of committee and types of							
embersship (companies and/or individuals)							
escribe NC main tasks							
escribe NC main activities							
3 - Leading positions in your NC and	general m	embership.	Please provide number	s on gender dist	ribution.		
oday and some 5 years back	Current numbers 2023/2024 Previous numbers 2018/2019					Comments	
eading positions:	Women	Total	% women	Women	Total	% women	
. Board members							
. Presidium (Chair, vice-chair, secretary							
eneral)							
Steering group (voting members)							
. National technical committee chairs							
. Delegates in ICOLD technical committees							
Possibility to add another organization unit and							
s leading positions: xxx							
verall comments:	Women	Total	% women	Women	Total	% women	Comments
verall comments:	Women	Total	% women	Women	Total	% women	Comments
verall comments: lembership:	Women	Total	% women	Women	Total	% women	Comments
verall comments: lembership: . Members in national organization	Women	Total	% women	Women	Total	% women	Comments
verall comments: Iembership: Members in national organization Young professional members	Women	Total	% women	Women	Total	% women	Comments

February-May 2024

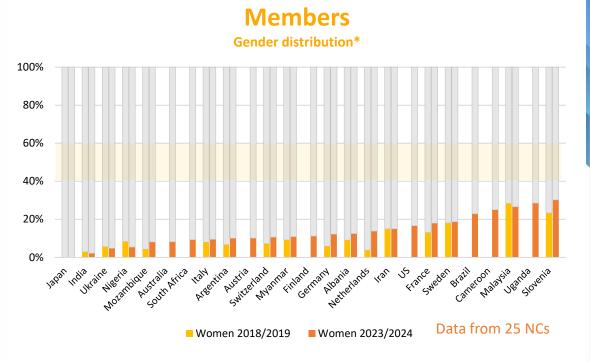
- NC Organization & tasks
- Representation of women
 - Leading positions, members, events
 - Today and 5 years ago
- GDI-initiatives
- Response from 37 NCs
- "Data" from 29 NCs
- Be careful with interpretation!



Board/Steering groups

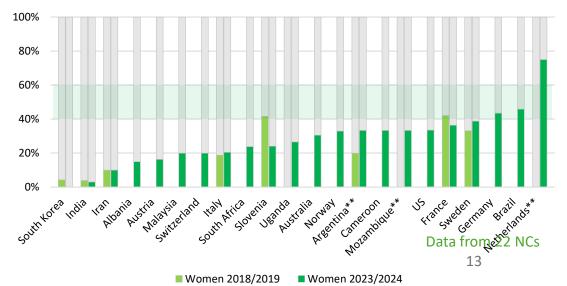


- Great differences between countries
- Half of responding NCs have:
 - 20 % women or more in NC-leading positions
 - 11 % women or more as NC-members
 - 30 % women or more as YP-members
- Slight increase with time

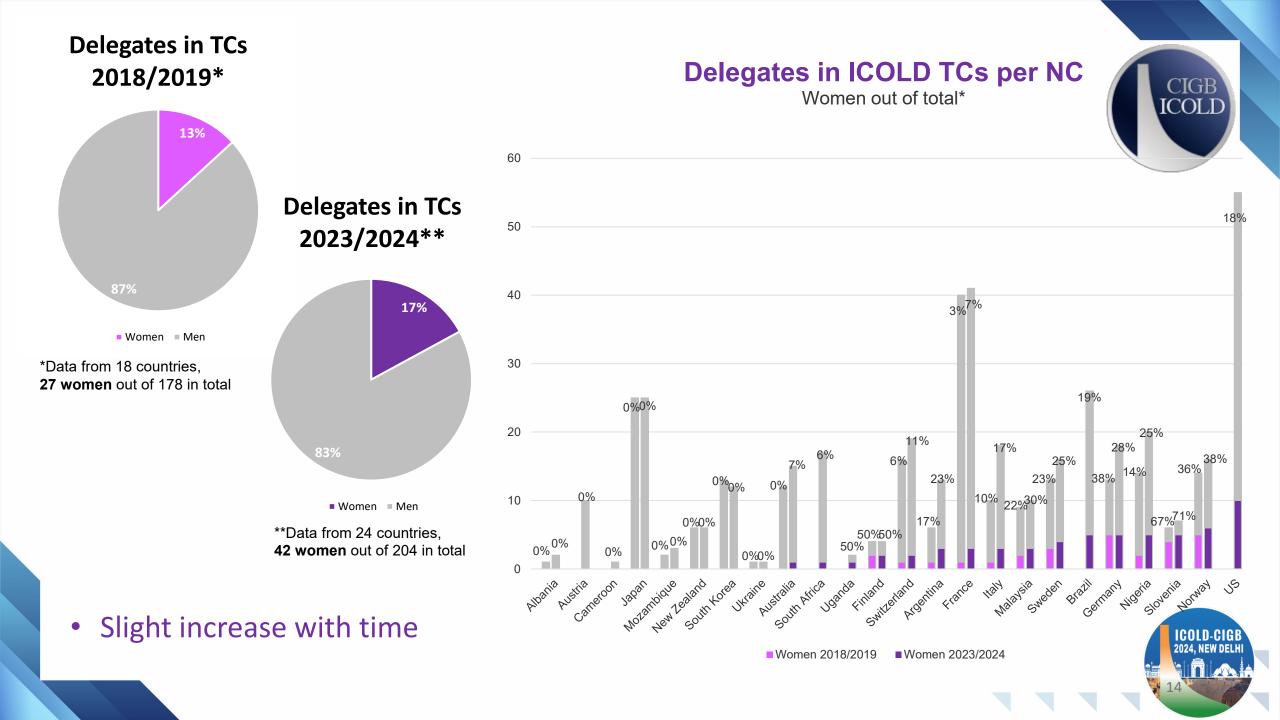


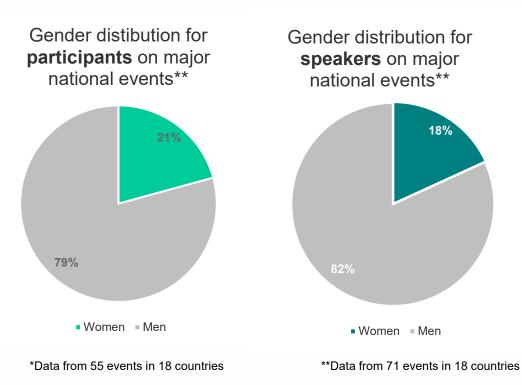
Young Professional members

Gender distribution*



Representation of women





• Speakers slightly less than participants

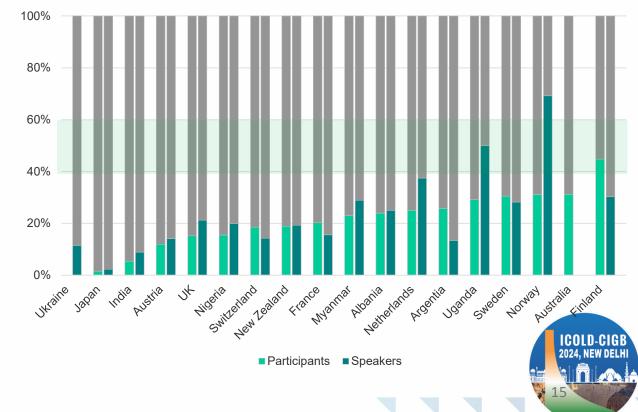
Recent conferences/major national events

In the last 5 years (% females out of total)

Gender distribution of participants and speakers for major national events*

CIGB

ICOLI





Gender related initiatives - 15 NCs

- DE&I-groups
- Mentorship programs/opportunities
- Actions to strive for gender balance
 - In governance, conference leadership, presenters
- Attempts to increase diversity
 - Age and gender, YP activities
- Actions to attract university students to enter the sector
 - Not specifically directed to female students



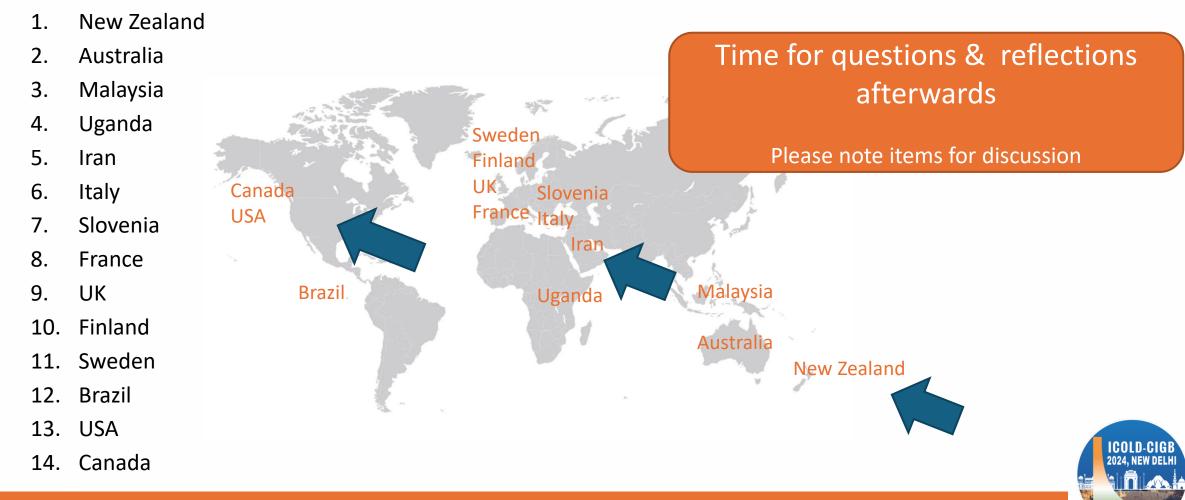
ICOLD-CIGB 2024, NEW DELHI

Time for the NCs to share their experiences!

Brief reports from NCs on current situation & initiatives to act for GD&I

From New Zealand to Canada





1. New Zealand

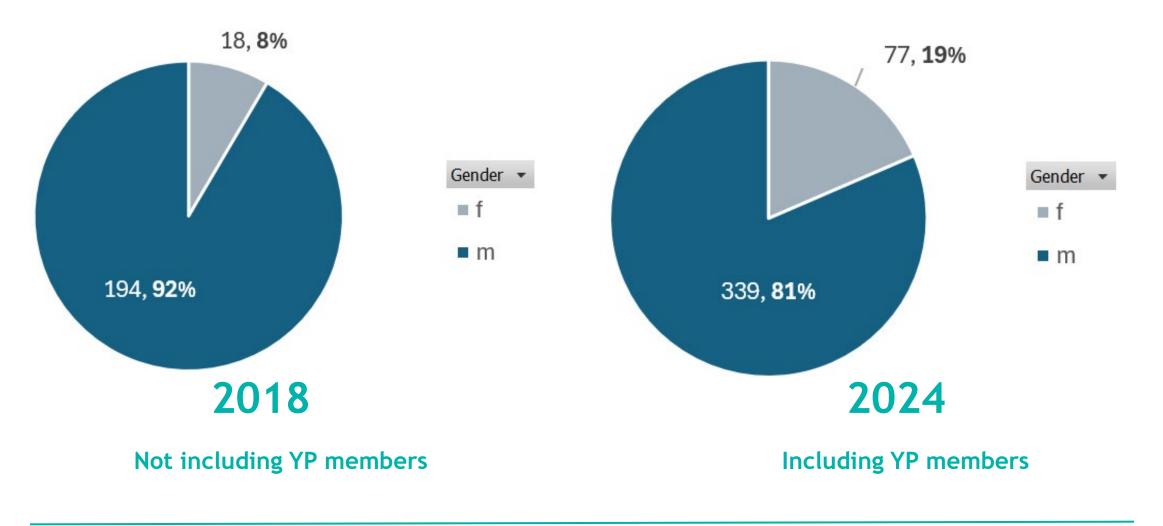
Diversity initiatives in the NZSOLD community



Dr Kaley Crawford-Flett, NZSOLD Chair 2024



NZSOLD individual members: gender estimates





Engineering New Zealand: parent organisation initiatives

- Gender and sexual orientation
- Cultural and racial (immigrant support)
- Age and generation
- Disability and neurodiversity







Rainbow Special Interest Group



Special Interest Group for Immigrant Engineers



Māori (Indigenous) Strategy



+ 36 Technical Groups andCollaborating Tech Societies(incl. NZSOLD)





2. Australia





Colleen Baker, Deputy Chair, ANCOLD Andrew Reynolds, Convenor DE&I Working Group, ANCOLD

Diversity, Equity and Inclusion Working Group

- Working Group formed September 2023
- Meets monthly
- Broad remit around diversity





Working Group – Terms of Reference

Core Objectives

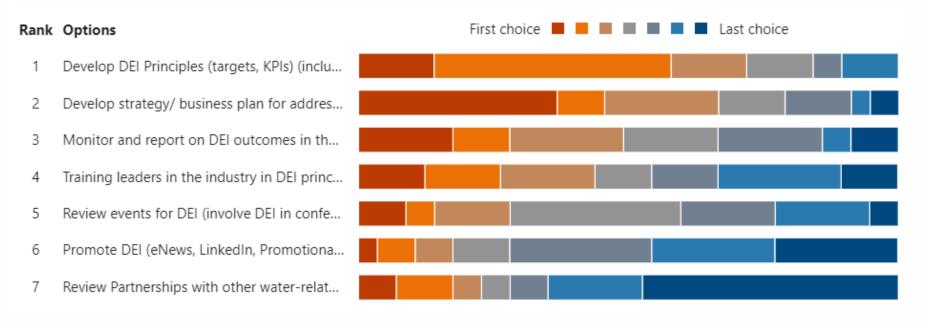
- Develop a DE&I Policy
- Advocate, influence and raise awareness in the industry of the importance of DE&I
- Ensure direct activities of ANCOLD (Working Groups, Events, Committees) are carried out with adherence to DE&I principles
- Support the industry to implement change in regard to DE&I principles
- Monitor latest research on DE&I and ensure these practices are applied
- Monitor DE&I outcomes



Current activities

Undertaken survey of members

• DE&I perspectives of ANCOLD and Australian industry



 Panel session at upcoming annual conference on challenges for migrants entering the Australian dams industry



3. Malaysia

Malaysian National Committee On Large Dams (MYCOLD)

Speaker: Datin Prof. Ir. Dr. Lariyah Mohd Sidek, MYCOLD Co-President

MYCOLD's journey: Where we are today?

VISION

MISSION

To build a future in which all dams are safe, well-managed and benefit society.

To encourage co-operation, advance technical knowledge, and build competency related to dams in Malaysia

MYCOLD RECENT ACTIVITIES 2023 - 2024

- 1. Current members: 465 individuals & 14 Corporate Members
- 2. Malaysian representative in 9 ICOLD Technical Committee
- 3. Professional Certification of 300 Dam Engineers by 2025
- 4. Training courses prior to the certification process
- 5. Supporting Special Committee on the Dam Safety Management for Dam Structure, PETRA
- 6. Bi-Annual Conference ICDSME2019 & ICDSME2023 with about 450 participants Nation wide
- 7. Technical Bulletin to support MyDAMS
- 8. Supporting the National Water Council (MAN)
- 9. Conducting 14 webinars, 7 Training courses, 4 Book Publications, 4 MOUs, Certified CDSI, 7 International Program Involvement, 6 CSR







- Women played key roles in **revitalizing MYCOLD** in 2019, driving **strategic initiatives** that transformed MYCOLD from inactive to influential.
- Led by a female Co-President for the past 3 terms.
- Women in MYCOLD facilitated the **internal restructuring and developed long-term goals** that aligned MYCOLD with international standards.

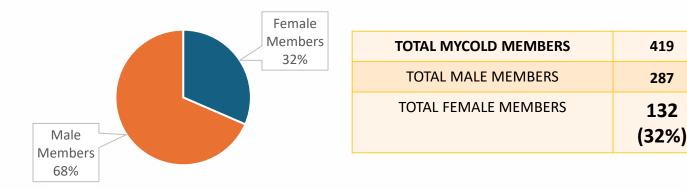


Malaysian National Committee On Large Dams (MYCOLD)



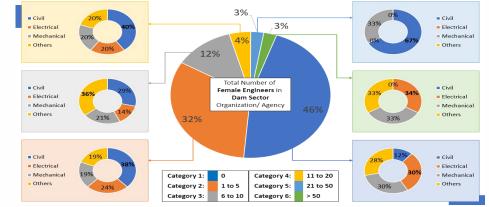
MYCOLD COMMITTEE MEMBERS	7	19	37%
ICOLD TECHNICAL COMMITTEE	3	10	30%

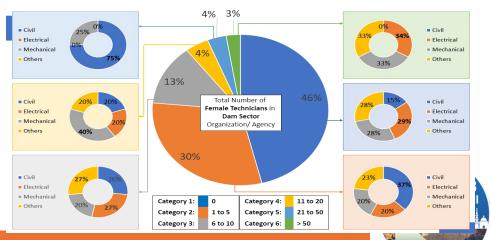
MYCOLD Members





Larger organizations and agencies have less than 50% female engineers and technicians, while smaller organizations and agencies typically have more than 50% female representation in these roles.





Malaysian National Committee On Large Dams (MYCOLD)

MYCOLD's Initiatives to Increase Women Involvement in the Dam Sector in Malaysia

- 1. Enhanced Representation: (Target 30% women by 2030)
 - Increased representation of women in MYCOLD led to a more balanced approach to decision-making.
 - MYCOLD has actively pursued grants at both national and international levels to fund programs that support women's involvement in the dam sector, including scholarships and training for women professionals in dam engineering related.

2. Capacity Building & Networking Opportunities: Target 30% women)

- MYCOLD has promoted women's active involvement in conferences, training programs and technical trips, including ICDSME 2019, ICDSME 2023, and ICOLD 2024 for professional growth.
- These platforms have provided women with invaluable networking opportunities with industry leaders and experts, fostering collaborations and mentoring relationships.

3. Pioneering Dam Safety Projects in Malaysia: (Target 30% women)

- MYCOLD has taken the lead in key dam safety projects across the country, with women playing significant roles in planning, execution, and monitoring.
- This has positioned women professionals as leaders in the critical area of dam safety, a field traditionally dominated by men.
- 4. Leading CSR Initiatives for Dam Safety Awareness: (Target 30% women)
 - MYCOLD leads corporate social responsibility (CSR) initiatives aimed at spreading dam safety awarenes across communities.
 - These initiatives are designed to inspire young girls to pursue STEM careers, by showcasing the critical role of women in engineering and dam safety projects.

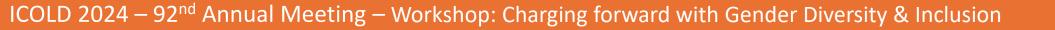




4. Uganda



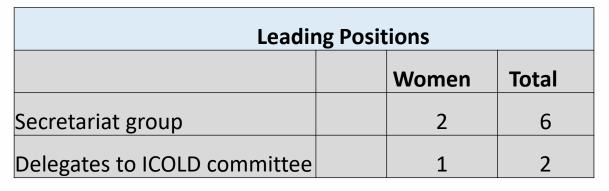
- Joined ICOLD 5 years ago but progress affected by COVID 19
- Officially inaugurated in 2022
- Committee activities are still low and geared towards promotion and awareness of UCOLD to boost membership enrollment and participation
- Current Membership :
- □Ministry of Water and Environment
- Uganda Electricity Generation Company Limited
- Academia
- □Bujagali Energy







Gender Distribution



Membership					
		Women	Total		
Members in National					
committee		10	35		
Young Professional					
Members		7	20		

Female Involvement

- UCOLD has not yet targeted gender diversity and inclusion
- However over the last 5 years we have noted 30% female participation in UCOLD activities from members
- UCOLD Young professionals(UYP) organised two webinars in collaboration with Canadian Dam Association (CDA) and also with South African National Committee on Large Dams (SANCOLD) and female participation was around 36%



BUGANDA Committee On Large Dams Gender Involvement and Distribution



UYP Participation Africa Hydropower Conference



UCOLD delegate at ICOLD Sweden



UCOLD delegate at CDA conference



Panel Discussion Mentorship Sweden – ICOLD Sweden



CIGB ICOLI



Iranian Committee On Large Dams Speaker: Mr AMIR FARID MOJTAHEDI

Patricia Eskandari Sena

Head of Study Dep. In IWPCO. IRAN

Senior Geotechnical Engineer, Water and Power Engineer, Secretary of Ir an Earth Dam Committee IRCOLD (International ICOLD) Representative of Gender Diversity Survey from Iran (NC)

The history of Iranian women's management and their role in water, resources and economy

- Women in Iran have played a special role in different ways throughout history. The peak of their power was revealed in the Achaemenid period. They had equal rights with men and made a great contribution to society.
- Today, if we can't use the power of 50 percentage of women alongside men, we cannot plan and make decisions in the management of water & power resources. Rest assured, we will fail. Women have always played a very valuable role in the management of water resources from an economic, social, political and cultural point of view have and will have, they have been the teachers and educators of generations and women and mothers have more than any other chapter. They are responsible for us and they are effective on it that if we do not pay attention to it and pass it simply, its losses and damages It is irreparable. It is necessary to be aware of the importance.
- Even today by following legacy, our past women are specialists and great engineers by our side and big • investments in the water & power sector.
- They are attributed to the country that many problems should be overcome by using their knowledge and to better understand the presence of these valuable experts.

Challenges and Problems of Advancing Women Engineers and Experts and Women's Successful Solutions to Deal with these Problems

• Accept that it is Difficult to be a Woman, to maintain femininity and at the same time fight alongside men to take your place in male environments. In an all-male environment, until a woman comes along who tries harder than them, men don't see the need to try for more promotion. So, in fact, in a patriarchal society, competition has become serious as women enter exclusively male environments, and this is definitely not to everyone's taste.

CIGF

- Professional women should always have a proof of their sufficiency and the process of double trusting others in the workplace, and this has gradually become a habit, and it seems that alongside the main project, the project of proving sufficiency and building trust has always been important. It has become a part of women's work process.
- But it goes without saying that the difficulties of this path do not make women with draw from the path of their dreams. They know that their presence gives other women the courage and security to enter the profession.
- In the following, I will introduce a list of expert women who are the leaders of organizations and companies, which are only a few women who were selected from a large number of active women in Iranian society.
- Regarding the activities and initiatives carried out in gender diversity, we joined associations and
 organizations such as women and environment, women and water, as well as women and
 hydraulics and started our cooperation.

Active Iranian Women in Engineering Knowledge in Dam Construction , Water , Environment and Related Trainings



Patricia Eskandari Sena

Master's Degree in Geotechnical Senior Geotechnical Engineer, Water and Power Engineer, Secretary of Iran Earth Dam Committee IRCOLD (International ICOLD) Representative of Gender Diversity Survey from Iran (NC)



Mahboobeh Azghadi Toosi

Master's Degree in Mining EngineeringGeotechnical expert in the office of development of technical systems, operation and dispatching of electricity of Iran Water Resources Management Company



Farnoosh Nazari Master of Project Management The founder of the Water Museum affiliated with

the Golestan Regional Water Company and a Master's Degree in Project Management THANK YOU FOR YOUR ATTEN IF YOU ARE NOW SUCCESSFUL IT IS BECAUSE SO

Shohreh Sadri Khanloo PH.D in Environment

Senior expert and participation in environmental impact assessment studies for numerous construction projects



Mona Masoudi Ashtiani PH.D candidate in WaterIran's Water and Power Public Relations



Shima Kabiri PH.D Water Resources Engineer

Head of the National Water Treasure of Qazvin Province.& Head of the water, environment and agriculture think tank of the elite foundation of Qazvin province

SOMEDAY A PLACE GAVE YOU HOPE OR AN IDEA THAT SET YOU ON THE RIGHT PATH

SO REMEMBER THAT YOU OWE IT TO PEOPLE WHO DON'T HAVE A CHANCE TO SUCCEED YET

AS YOU HAVE HELPED YOURSELF TO SUCCEED!MELINDA GATES



CIGB



Italian National Committee on Large Dams



Speakers: Guido Mazza, ITCOLD President Antonella Frigerio, ITCOLD Board Member

ITCOLD organization: main tasks and activities

Bodies of the Italian National Committee: a) Members' Assembly; b) Presidential Council; c) President; d) Vice-Presidents; e) Treasurer; f) Board of Auditors; g) Scientific Committee.

ITCOLD is a non-profit organization with a cultural and scientific character which aim is to carry out, promote and disseminate the study of technical problems concerning design, construction, operation and rehabilitation of dams. Main activities refer to: (i) Set up of Working Groups, Observatories, issue of Bulletins; (ii) organization of Seminars, Technical Training, Open Days on dams in collaboration with universities, Technical visits to dams and plants, Workshops to facilitate dialogue between Dams and Territories, Degree and Photographic prize competitions.

ITCOLD actively participates in the activities of ICOLD Technical Committees, in the EurCOLD initiatives, promotes the participation to the YPF, involving in particular female proactive participation.

Leading positions in ITCOLD and general membership

• Numbers on gender distribution

Lea	ding positions:	Women	Total	% women
a.	Board members	3	23	13%
b.	Chair, Vice-chair, Secretary general	2	4	50%
C.	Steering group (voting members)	3	23	13%
d.	National technical committee chairs	3	14	21%
e.	Delegates in ICOLD technical committees	3	18	17%
Membership:		Women	Total	% women
g.	Members in national organization	11	116	9%
h.	Young professional members	18	88	20%





ITCOLD initiatives to increase female participation



ITCOLD does not promote activities specifically aimed at strengthening gender diversity, but has motivated female technicians to take an active part in all initiatives promoted by the NC.

ITCOLD organizes five to ten events every year: in recent times female participation is around 40%.

The Young Professionals (YP) organize 1-2 events per year with female participation around 50%.

In the last five years ITCOLD published 9 Bulletins that concluded the activities of the ITCOLD specific working groups (Bulletins can be downloaded from ITCOLD website: <u>www.itcold.it</u>). The participation of female technicians is strongly promoted and duly recognized.



7. Slovenia



Slovenian National Committee on Large Dams (SLOCOLD), Slovenia

Nataša Smolar-Zvanut, Ph.D., Slovenian Water Agency Mateja Klun, Ph.D, University of Ljubljana, Faculty of Civil and Geodetic Engineering

- Professional organization, dedicated to science of dam engineering, since 1993
- Members are experts in different professions
- General meeting and excursions yearly, organization of thematic conferences
- The journal »Velike Pregrade« (Large Dams) is created by the members of the SLOCOLD with articles on current issues/problems of dam engineering in Slovenia
- The members of SLOCOLD are regularly present in the international arena with original articles, which are published at the ICOLD international symposiums and congresses



Slovenian National Committee on Large Dams (SLOCOLD), Slovenia

CIGE

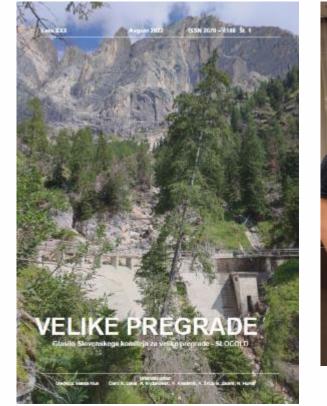






- SLOCOLD: 50-60 members (30 % women)
- President of SLOCOLD
- Board Members of SLOCOLD (44 % women)
- ICOLD: Chair of Young Professional Forum
- Delegates in ICOLD Technical Committees (71 % women)
- Ad hoc Committee on gender diversity and inclusion
- Organization of national and international events 2019-2024: 3 national and 3 international events 2019 – 2024: 3 Technical Publications















CIGB ICOLD

8. France

French Committee "CFBR" - France

Anne Clutier, Engineer, Electricity of France (EDF) and General Secretary of CFBR

Main tasks and activities :

- Mission :
 - Promoting progress in the design, construction, maintenance and operation of dams, power plant and levees
- Activities :
 - Managing Working Groups that prepare recommendations
 - Taking part to Technical Committees of ICOLD
 - Organizing conferences and symposiums to exchange information among its members

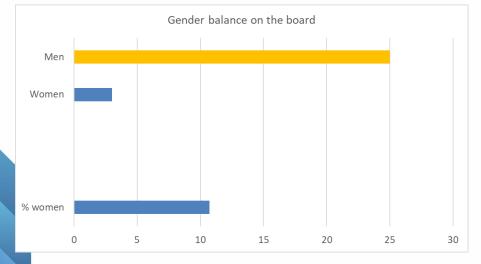


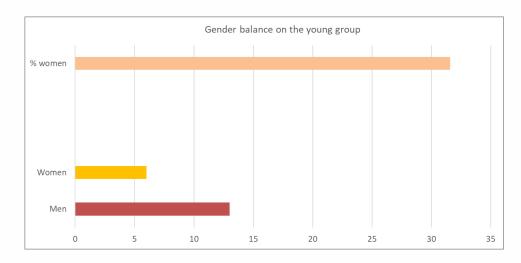
French Committee "CFBR" - France

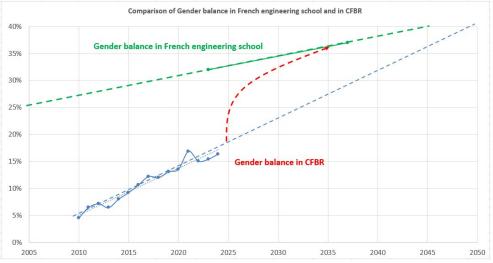
Anne Clutier, Engineer, Electricity of France (EDF) and General Secretary of CFBR

Gender distribution











CIGE

des barrages et réservoirs

French Committee "CFBR" - France

Anne Clutier, Engineer, Electricity of France (EDF) and General Secretary of CFBR

- Initiatives to strengthen Gender diversity
 - To improve the access to information for young people
 - Communication campaigns
 - To help young engineers to become CFBR member
 - To better inform young engineers of CFBR activities to improve their participation
 - To encourage compagnies to propose women for working groups
 - Raising the profils of women at conferences
 - Increasing the number of women on board
 - To propose women's testimonies in high schools





9. United Kingdom

British Dam Society, United Kingdom

Rachel Davies, Delivery Director & BDS Chair, Binnies Amy Carter, Senior Engineer & BDS EDI Champion, Arcadis

Introduction to the UK NC

- The British Dam Society (BDS):
 - Associated Society of the Institution of Civil Engineers (ICE).
 - Main committee of 21 elected and nominated members.
 - 778 individual members, of which 227 (30%) are YPs (under 35).
- Key activities:
 - Quarterly journal 'Dams and Reservoirs' and BDS yearbook.
 - Regular events, including a 3-day biennial conference and inaugural 2024 Young Professional Forum.
 - Awards and competitions.







Gender distribution in the BDS



Recent BDS events	% wo	omen
	Speakers	Attendees
BDS 22nd Biennial Conference	27%	20%
BDS 16th Supervising Engineers' Forum	31%	15%
BDS 21st Biennial Conference	25%	16%

Recent publications	<mark>% wc</mark>	omen
	Editorial board	Authors
British Dam Society Yearbook	0%	60%
Dams & Reservoirs Journal #4	30%	20%
Dams & Reservoirs Journal #3	30%	0%

Change in gender diversity in the BDS

2018/19 2023/24



0% 10% 20% 30% 40% 50% 60% 70% 80% 90%100%



The British Dam Society

Building diversity & inclusion in the BDS

- Actions to date:
 - Equity, Diversity & Inclusion (EDI) committee role.
 - Initial assessment against UK Science Council Diversity & Inclusion Progession Framework (DIPF).
 - Gathering of membership feedback.
 - Set up of EDI working group.
- Next steps:
 - Monitoring of progress against DIPF.
 - Regular meetings and action planning with working group.
 - Further engagement with ad-hoc GDI committee.
 - Input into BDS 2025-2028 strategy.







10. Finland

Finnish Committee on Large Dams

Eija Isomäki, FINCOLD Secretary



SB)SUURPADOT - SUOMEN OSASTO ry FINNISH COMMITTEE ON LARGE DAMS



FINCOLD is a co-operation forum for dam owners, authorities, designers, constructors as well as people functioning in research, development and teaching.

- FINCOLD parties: Board, Company members (B), Privat members (A)
- Gender distribution:

	Women	Total	% of women
Leading positions			
Board members	2	6	33
Chair, Vice-chair, Secretary	2	3	66
Delegates in ICOLD technical committees	2	4	50
Membership			
Members in national organization	17	152	11



11. Sweden



SwedCOLD – Swedish commission on large dams Finn Midböe, secretary of SwedCOLD since 2021



SwedCOLD is working consciously with GDI since several years

- Actively seek improved gender balance for public events
- Zero tolerance for sexism and discriminatory behavior
- Set example with balance in ex.committee, at ICOLD 2023 in Gothenburg
 - gender balance was sought for
- opening, session officers etc. and the work was lead by a 50-50 OC
- Following statistics on gender balance



SwedCOLD – Swedish commission on large dams

How are we doing? Some statistics...

COMMISSIO

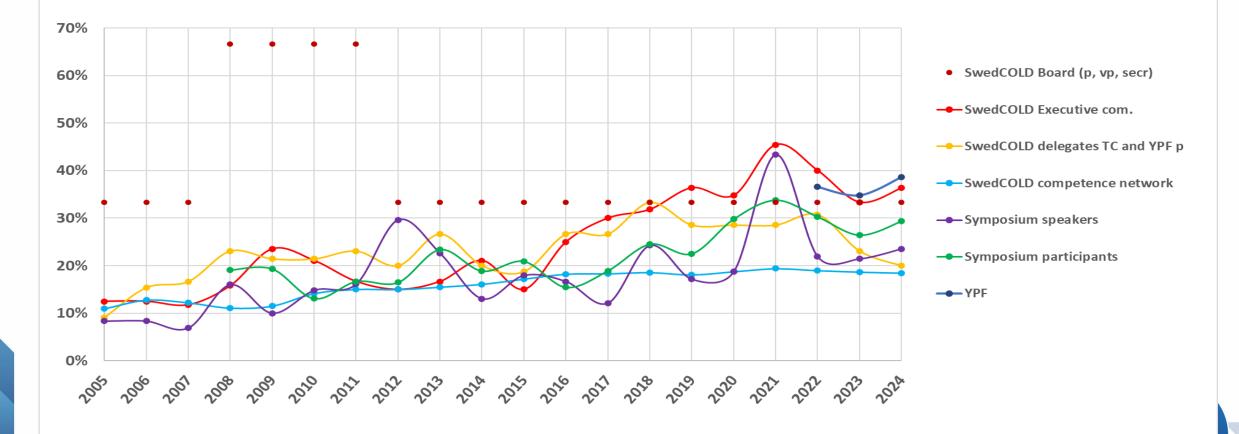
COL

SHELLSH NATIONAL COM

INTERNATION

SwedCOLD - Percentage of women in management and activities

CIGE







Some progress long term – ~10 % to ~25 % in 20 years – but:

- Progress is slow
- Tendency of plateauing might be visible, how do we avoid this?

SwedCOLD needs more tools and ways of working...

- Looking forward to hear ideas and best practices



12. Brazil

Brazilian Committee on Dams, Brazil

• The fourth edition of Damsweek - **Damsweek 2024**, organized by the Brazilian Committee on Dams (CBDB) and the largest dam engineering event in Brazil, took place from 18-23 August, in Belo Horizonte (MG).

• To stimulate gender diversity, Damsweek 2024 included the panel **"Women and Dams"**. In this panel, Adriana Verchai, Brazilian representative at ICOLD Gender and Diversity and Inclusion Committee, presented the results of the survey carried out by this Committee in more than 38 countries. She also coordinated the debates about the theme; Civil engineer Adriana Verchai de Lima was cited as a prominent engineer in the sector during the opening of the Young Engineers Forum (YEF) with others,

• During Damsweek, there were meetings of the 20 National Technical Committees, 4 of which have women as coordinators. Technical Committee 18 - Project, Operation, Maintenance of Sanitation Works, where guidelines for the projects, works and maintenance of sanitation structures are discussed, is conducted by Adriana Verchai;

• The Extraordinary Meeting of CBDB's Deliberative Council took place on Tuesday (20), and had the participation of 5 women: Adriana Verchai de Lima (member of the Fiscal Commission), Regina Moretti, Josiele Patias and Patrícia Neves (members of the Deliberative Council) and Teresa Cristina Fusaro (CBDB's vice-president);

• On Thursday (22) civil engineer Adriana Verchai de Lima met with the CT12 Technical Commission (CT12) Multiple Use Reservoirs. She holds the position of deputy coordinator of the group, together with coordinator Miguel Zydan Soria, or who also holds the position of CBDB's President;

About the event - Damsweek is organized annually by the Brazilian Committee on Dams (CBDB), to promote discussion on topics related to dam safety, such as new technologies for safer tailings dams, dam instrumentation, flood control and coping with droughts. During the event, technological advances and additional technical information are presented through forums, seminars and workshops.



Brazilian Committee on Dams, Brazil



Damsweek 2024 - 903 participants Young Engineers Forum YEF – 193 participants

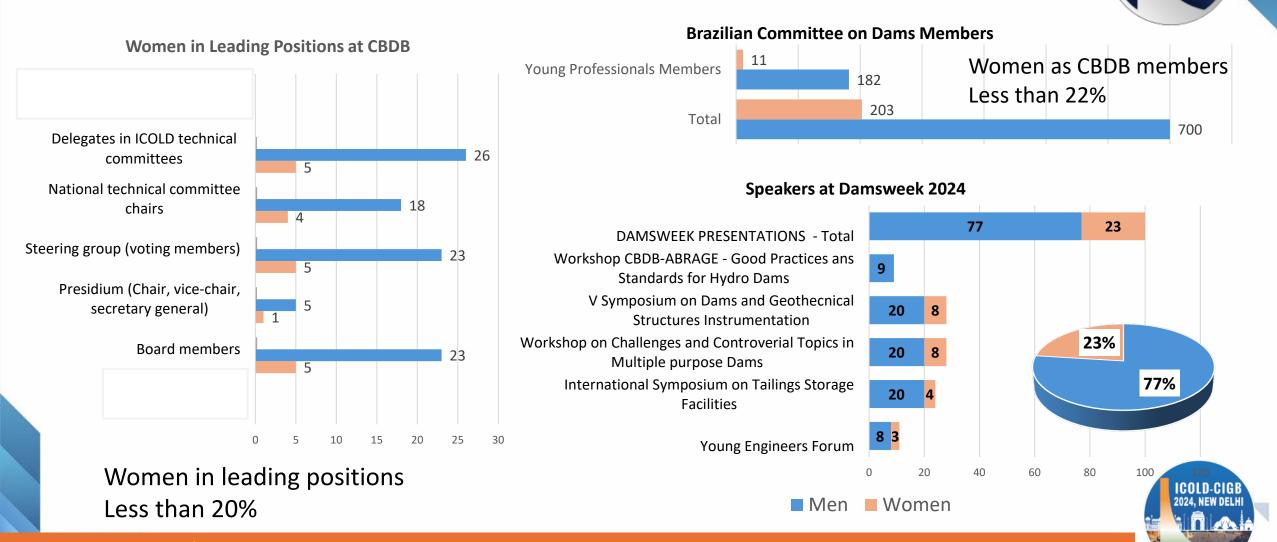
> Female - 203 (22%) Male - 700 (78%)

Female Participants in CBDB's Congresses

Women participation at Damsweek 2024-22%



Brazilian Committee on Dams, Brazil



13. USA



CIGB

Presented by: Catrice Jones – Executive Director, USSD Merry Dang - Director of Business Development Lucky Nagarajan – Director of Business Development



Today and some 5 years back	Current numbers 2023/2024			Previous numbers 2018/2019		
Leading positions:	Women	Total	% women	Women	Total	% women
a. Board members	4	13	31%	5	13	38%
b. Presidium (Chair, vice-chair, secretary	19	55	35%			
general)						
c. Steering group (voting members)						
d. National technical committee chairs	2	7	29%			
e. Delegates in ICOLD technical committees	10	55	18%			
f. Possibility to add another organization unit						
and its leading positions: xxx						
Overall comments:					·	
Membership:	Women	Total	% women	Women	Total	% women
g. Members in national organization	259	1558	17%			
h. Young professional members	68	203	33%			
i. Possibility to add another type of						
organizational unit and its members: yyy						



Gender Inclusion within



- USSD has an all-women staff of five, including the Executive Director, Catrice Jones
- Female Board Members:
 - President Dina Hunt, Gannett Flemming
 - Secretary Georgette Hlepas, US Army Corps of Engineers
 - Members Elena Sossenkina, HDR and Jennifer Williams, AECOM
- Four Female Committee Chairs
 - Public Safety, Security, and Emergency Management
 - Earthquakes
 - Diversity, Equity and Inclusion
 - Young Professionals







- USSD is focused on gender inclusion as part of Diversity, Equity and Inclusion (DEI) initiatives
- The board has identified that DEI needs to be discussed in the overall strategy of USSD
- The board is developing a statement on USSD's commitment to DEI, which will be shared with members and with ICOLD
- DEI Sessions and Events at Annual Conferences
- It is not quick and easy
- A primary goal is creating a safe space for uncomfortable discussions



14. Canada

Canadian Dam Association

Eric Peloquin, CDA Acting President, Hydro-Québec





Equity, Diversity and Inclusion

- Recently established Board Task group to:
 - Develop EDI vision statement for CDA to be embraced by all members
 - Establish baseline understanding of the CDA membership demographics (Review of best practice to collect and manage members demographic data and come with a recommendation to the Board)
 - Research and recommend future EDI activities (i.e. Creation of a permanent Committee as first step)



Activities to date



Panel sessions during annual conferences on:

- Women in the Dam Industry: Calgary 2019, Winnipeg 2021
- Equity, diversity and inclusion: Winnipeg 2023

Ad-hoc outreach throughout the membership to promote women in the Dam Industry



Moderated workshop session - Next steps for ICOLD

Potential themes to discuss

- How have your **NC-initiatives** been received by your members?
- Any good experiences from **mentorship programs** to share?
- Experiences from **GD&I groups** in your NC or country?
 - Would ICOLD benefit from a permanent GD&I committee?
 - What would you like the committee to do?
- Experiences from capacity building initiatives in general?
- **Reasons** women are still not enough represented in our various countries/environments
- Tools to empower women in leadership
- Takeaways & recommendations to bring home





Wrap-up and closure

Potential next steps for ICOLD - Ideas

- Permanent GDI-committee from 2025
 - Support integration of "commitment statement" and actions in ICOLDs org. and routines, monitor progress
 - Facilitate collaborations with selected organizations/exiting initiatives
 - Events/webinars/articles through ICOLDs channels
- GDI page on ICOLD web
 - Share information, link to and promote existing initiatives and toolkits
- Special events on annual meetings
 - Would you like to participate on such an event on ICOLD2025? What type?





Do you have suggestions on goals and action items for ICOLD?

Would you like to be involved in future activities?



Please let us know! Contact: <u>maria.bartsch@svk.se</u> or any committee member

Thank you for your participation!

ICOLD 2024 – 92nd Annual Meeting – Workshop: Charging forward with Gender Diversity & Inclusion



CIGB