



REPORT OF ACTIVITIES



2014 – 2015



Canadian Hydropower
Association
Association canadienne
de l'hydroélectricité



VISION AND MISSION STATEMENTS

HYDROPOWER LEADS THE WAY TO RELIABLE, RENEWABLE, CLEAN ENERGY.

We, the Canadian hydropower industry, promote the technical, economic, social and environmental advantages of hydropower. We advocate the responsible development and use of hydropower to meet present and future electricity needs in a sustainable manner.



canadahydro.ca | Twitter: [@CanadaHydro](https://twitter.com/CanadaHydro)

MESSAGE FROM THE CHAIR OF THE BOARD

This year, the Canadian Hydropower Association (CHA) with its Board of Directors completed an important update of the Association's Strategic Action Plan. After the regulatory changes that took place in 2012, and in anticipation of the 2015 federal election, the CHA decided to take advantage of this time to focus on raising the profile of hydropower at the national level. In fact, thanks to new communications and public affairs initiatives, we hope to achieve an increased level of recognition of Canadian hydropower's key attributes and enhance public support of new and developing hydropower. We have made strong commitments to foster better awareness, education and promotion which will help the CHA update and disseminate its key messages. In 2015, the CHA partnered with both the Canadian Council on Renewable Electricity and the Royal Canadian Geographical Society to help enable our communications goals. These partnerships will support our message that hydropower is clean and renewable and that it is recognized as such across the country. These initiatives represent strong investments in the future and we look forward to seeing their results over the next few years.

In addition, engaging in federal regulatory improvements continues to be a core CHA activity and this year we saw further progress in the implementation of the 2012 regulatory reform.

As Chair of the CHA Board, I am also always deeply encouraged to see the exchange of information and lessons learned that take place among our working groups. Without the commitment, time and dedication of our working groups' chairs and members a lot of the great accomplishments that we see today would not exist. Each and every one of CHA's working groups contributed tremendous progress, be it in the area of regulatory affairs (*Species at Risk Act, Fisheries Act, Environmental Assessment Act and Navigation Protection Act*), Aboriginal relations, public affairs, or clean energy policy and our relations with our southern neighbor. On behalf of the Board of Directors, I would like to extend a warm thanks to all who were and still are involved in CHA working groups' activities.

The CHA also continued to deliver unique services to its members this year through its successful 2014 Forum, quarterly e-newsletters and monthly news round up. We hope to increase CHA's visibility this year in terms of social media and other communication tools.

With the launch of its economic studies and *Paths Forward* compendium, the CHA will reach new audiences and strengthen its existing achievements. Reflecting over this past year, I am deeply satisfied to see all the progress made and look forward to what I know will be another exciting year.



Edie Thome
CHA Board Chair
Director, Environmental Risk Management
BC Hydro



MESSAGE FROM THE PRESIDENT

This year, the CHA continued its advocacy efforts both with federal government representatives and the general public. We participated in encouraging discussions with government agencies such as the Department of Fisheries and Oceans, Environment Canada and Natural Resources Canada. Our monitoring efforts are still ongoing regarding the changes made in 2012 to the *Canadian Environmental Assessment Act* and the *Fisheries Act*, and we continue to engage with Environment Canada to discuss changes to the *Species at Risk Act* that would benefit both the environment and the hydropower industry.

In 2014-2015, the CHA also participated in many conferences and workshops, continuously promoting the benefits of Canadian hydropower. This year confirmed our strong ties with the U.S.. In 2014, the CHA submitted comments on the Environment Protection Agency draft *Clean Power Plan* and the Department of Energy's *Quadrennial Energy Review*. In its submissions, the CHA reiterated its key message that Canadian hydropower can provide the U.S. with clean and renewable electricity while enabling other renewables such as wind and solar. Increasing interactions are anticipated and the CHA is looking forward to assisting the U.S. in meeting its greenhouse gas emissions reduction targets.

The CHA also embarked on an exciting newly reformed Strategic Action Plan which focuses on public affairs and communications while continuing to engage in federal regulatory improvements. Our innovative partnerships with the Canadian Council on Renewable Electricity and the Royal Canadian Geographical Society illustrate this shift in priority and, we believe, will yield positive results for years to come. These new collaborations will require ongoing coordination and management, and we look forward to involving CHA's working groups as required to maximize benefits for all.

Finally, with two economic studies and a national survey conducted early this year, 2015 promises to be a year filled with interesting hydro news and developments. We will use the results collected in our survey and studies to update our key messages as necessary and promote Canadian hydropower on our updated website and social platforms.

As always, we thank you for your continued support and trust and look forward to exchanging with you on our new endeavours.



Jacob Irving, President,
Canadian Hydropower Association



REGULATORY UPDATE

During the year 2014, and in preparation for the 2015 federal election, the CHA continued to meet with government representatives and to monitor regulatory changes and their impact on the hydropower sector, especially regarding the development of policies and decisions under the amended *Fisheries Act* and *Canadian Environmental Assessment Act*. We advocated for movement on changes to the *Species at Risk Act (SARA)* and we will closely monitor this Act's continued evolution. We continue to focus on ensuring that the federal regulatory regime better reflects the needs of our industry while also protecting the environment.

Thanks to its working groups, the CHA also supported other federal legislative changes that promote environmental management best practices and hydropower development. As Canada's number one source of clean and renewable electricity, we remain strongly interested in a national carbon management initiative that supports the development of renewable electricity. We closely monitored new developments such as the Ecofiscal Commission and will work to ensure hydropower is included in any future national energy strategy.

2014 CHA FORUM

Our 2014 CHA Forum on Hydropower was very well attended and provided insights on issues related to refurbishment, expansion, and growth. As always, we sincerely thank all our sponsors and attendees for their continued support and participation. Good networking opportunities were provided thanks to our receptions attended by numerous Members of Parliament, civil servants diplomats, and industry representatives.



Energy Ottawa Chaudière Falls Hydroelectric facility



HYDROPOWER ADVOCACY & NEW PARTNERSHIPS

ADVOCACY

This year, the CHA represented the hydropower industry at several events where we shared our positive messages and continued to develop key relationships. As examples, the CHA was invited to participate once again in the Energy and Mines Ministers Conference in Sudbury and delivered Canadian hydro key messages at the CNBC Energy Future event and the US-Canada Energy Summit organized by the Chicago Council on Global Affairs.

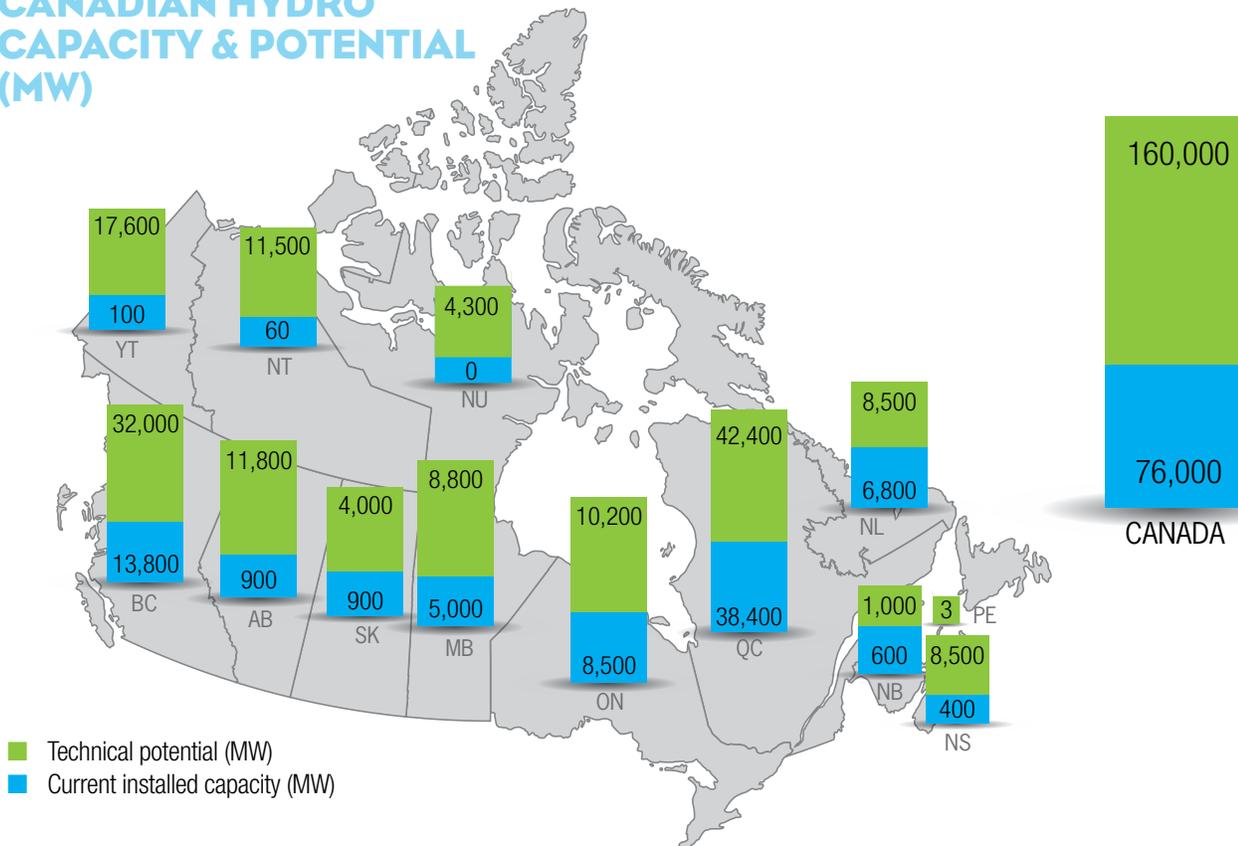
The CHA continues to work with the *National Hydropower Association* in the United States and the *International Hydropower Association* globally. A strong effort was made during the fall of 2014 to finalize two submissions from the CHA to the US Environment

Protection Agency (EPA) regarding its *Clean Power Plan, rule 111(d)* and a submission to the US Department of Energy regarding the *Quadrennial Energy Review* ordered by President Obama. In these submissions, we delivered key messages on Canada's existing and undeveloped hydropower potential while highlighting the potential for more interactions across the Canada-US border in terms of hydropower exports.

We also confirmed our commitment to delivering our Canadian hydro messages in the US by attending the *17th Annual Congressional Renewable Energy and Energy Efficiency EXPO and Forum* hosted by the *Environmental and Energy Study Institute (EESI)* in Washington DC. CHA President, Jacob Irving, offered the welcoming remarks at the HydroVision 2014 International Conference and participated in a Ministerial level meeting between NRCAN and the US Department of Energy in Ottawa in September.

CHA also met with and provided information to delegates of the International Energy Agency (IEA) in the context of the IEA energy policy review of Canada on the existing hydropower landscape in the country and its undeveloped potential.

CANADIAN HYDRO CAPACITY & POTENTIAL (MW)



Sources:

- 1) Potential: EEM study conducted for the CHA in 2007: Executive Summary
- 2) Installed Capacity: Statistics Canada, CANSIM table 127-0009, values for 2006 and 2013 retrieved on February 5, 2015

Note: The potential is defined as the technical potential still available for development as determined by EEM in 2006 minus the capacity that came on line between 2006 and 2013

ECONOMIC STUDIES

In 2014, the CHA commissioned two economic studies aimed at identifying the contributions made by the hydropower industry in terms of jobs creation, contributions to the Canadian GDP and contributions to Aboriginal communities. While we knew that the hydropower sector is a very significant player in the overall Canadian economy, we were thrilled to see that in 2013, the industry contributed \$37 billion to Canada's GDP and supported 135,000 jobs.

IN 2013, THE HYDROPOWER INDUSTRY:



**CONTRIBUTED
\$37 BILLION TO
CANADA'S GDP**



**SUPPORTED
135,000 JOBS**

PARTNERSHIPS

Over the year 2014, the CHA explored and evaluated the value in forming two innovative partnerships with the Canadian Council on Renewable Electricity (CanCORE) and the Royal Canadian Geographical Society. The CHA Board of Directors approved these partnerships in early 2015. We are very excited about these recent developments and look forward to implementing them over the next few years.



CANCORE



CANADIAN COUNCIL ON
RENEWABLE ELECTRICITY
CONSEIL CANADIEN SUR
L'ÉLECTRICITÉ RENOUVELABLE

By being a founding partner of CanCORE, the CHA hopes to build long-lasting relationships with other renewable associations, such as the Canadian Solar Industries Association, the Canadian Wind Association and the Marine Renewables Association. This will assist us in firming up our reputation as a clean and renewable industry and will also allow us to build greater momentum by joining forces on the advocacy and education fronts. While CanCORE is still in its infancy, it is our hope that all four established associations will give it the credibility required to achieve tangible positive outcomes.

THE ROYAL CANADIAN GEOGRAPHICAL SOCIETY



As the third largest Canadian publication by readership, Canadian Geographic is read each month by more than 3 million Canadians. Thanks to this partnership, the well-known magazine will put hydropower front and center. Through this initiative and its school mailing program, we will also ensure thousands of young Canadians learn about the benefits of hydropower and its contributions to the environment and the economy. It is our belief that this partnership represents a significant and meaningful investment in the future and will also yield positive results in reaching out to our key audiences.

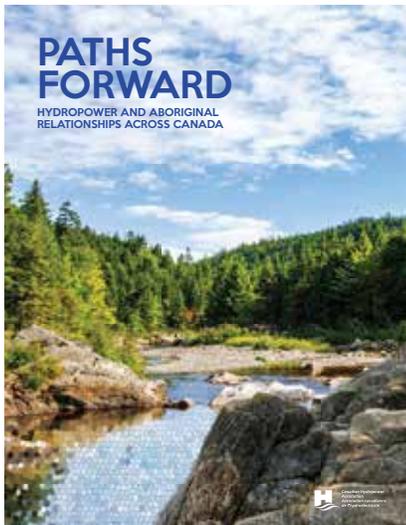
CHA WORKING GROUPS, PROVIDING SUPPORT FOR THE HYDROPOWER INDUSTRY IN CANADA

ABORIGINAL RELATIONS WORKING GROUP

The Aboriginal Relations Working Group continues to focus on key issues that are of national significance to members of the CHA. During the last year, the working group has provided members with useful feedback regarding the Tsilhqot'in decision and collected success stories showcasing the range of initiatives and partnerships that are underway with Aboriginal communities across Canada related to hydropower facilities and projects: *Paths Forward, Hydropower and Aboriginal Relations Across Canada*.

CLEAN ENERGY POLICY WORKING GROUP

The working group continued to monitor and comment on the development of greenhouse gas management and regulation as well as the Ecologo CCD-003 standard. It prepared the CHA submissions to the EPA and the U.S. Department of Energy mentioned in the 'Advocacy' section. Our submissions highlighted Canada's hydropower profile and identified opportunities for increased Canadian hydropower exports to the U.S. The working group also contributed to the preparation of the *Centre for Climate and Energy Solutions (C2ES)* submission on the potential role of Canadian Hydropower in the US Clean Power Plan, organizing a successful launch of this report. The purpose of this launch was to share perspectives on the Canadian-U.S. hydropower relationship and positively reflect on opportunities to assist the U.S. in meeting its greenhouse gas emissions reduction targets.



Paths Forward, Hydropower and Aboriginal Relationships Across Canada

The working group also monitored and commented on publications about greenhouse gas emissions from reservoirs.

FISHERIES ACT WORKING GROUP

The group continued to monitor development of studies and guidance on entrainment and impingement of fish and is leading the development of national best management practices. It also continued to engage with the Department of Fisheries and Oceans on an ongoing basis. The working group remained involved on the legislative front after the 2012 changes came into force and commented on new policies and guidance documents released by the Department of Fisheries and Oceans.

PUBLIC AFFAIRS WORKING GROUP

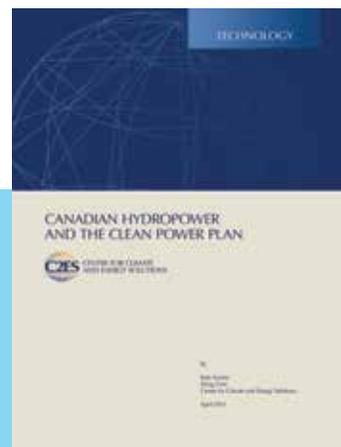
With a new focus on communications and public affairs, the CHA leaned on its Public Affairs working group to provide guidance and direction on important decisions and initiatives such as our partnerships with CanCORE and the Canadian Royal Geographical Society. An ambitious Communications Strategy was developed by this working group and will be implemented throughout 2015.

REGULATORY PROCESSES WORKING GROUP

The working group continued to monitor implementation policy development and the issuance of decisions under the 2012 *Environmental Assessment Act*, and to try to influence regulatory change in this field, providing comments to various government departments, such as the *Canadian Environmental Assessment Agency* and the *Major Projects Management Office (MPMO)*. It also continued to monitor the implementations to the changes to the *Navigation Protection Act*.

SPECIES AT RISK ACT (SARA) WORKING GROUP

The working group continues its collaboration with other industry associations to develop a strategy for ensuring further action on SARA after the 2015 federal election. As legislative change appears unlikely in the short term, the Working Group will continue to focus its efforts on improving application mechanisms in consultation with government officials, non-governmental organizations and other important stakeholders through the SARA committee process and other opportunities.



Canadian Hydropower and the Clean Power Plan

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Vanessa Pilotte, Brookfield Renewable
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Christine Cantin, Hydro Québec
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Susan Rapin, OPG
Daniel Gibson, OPG
Chris Revell, BC Hydro
Annie Tremblay, Hydro Quebec