

# Powering ideas



**Société d'énergie  
de la Baie James**

A Hydro-Québec subsidiary



# POWER

Since 1944.

In 35 countries around the world, Hydro-Québec has transformed great ideas into solid projects.

From initial assessments to engineering, we bring world-class know-how to renewable energy projects of any size.

Hydro-Québec:  
Experience to power your ideas.

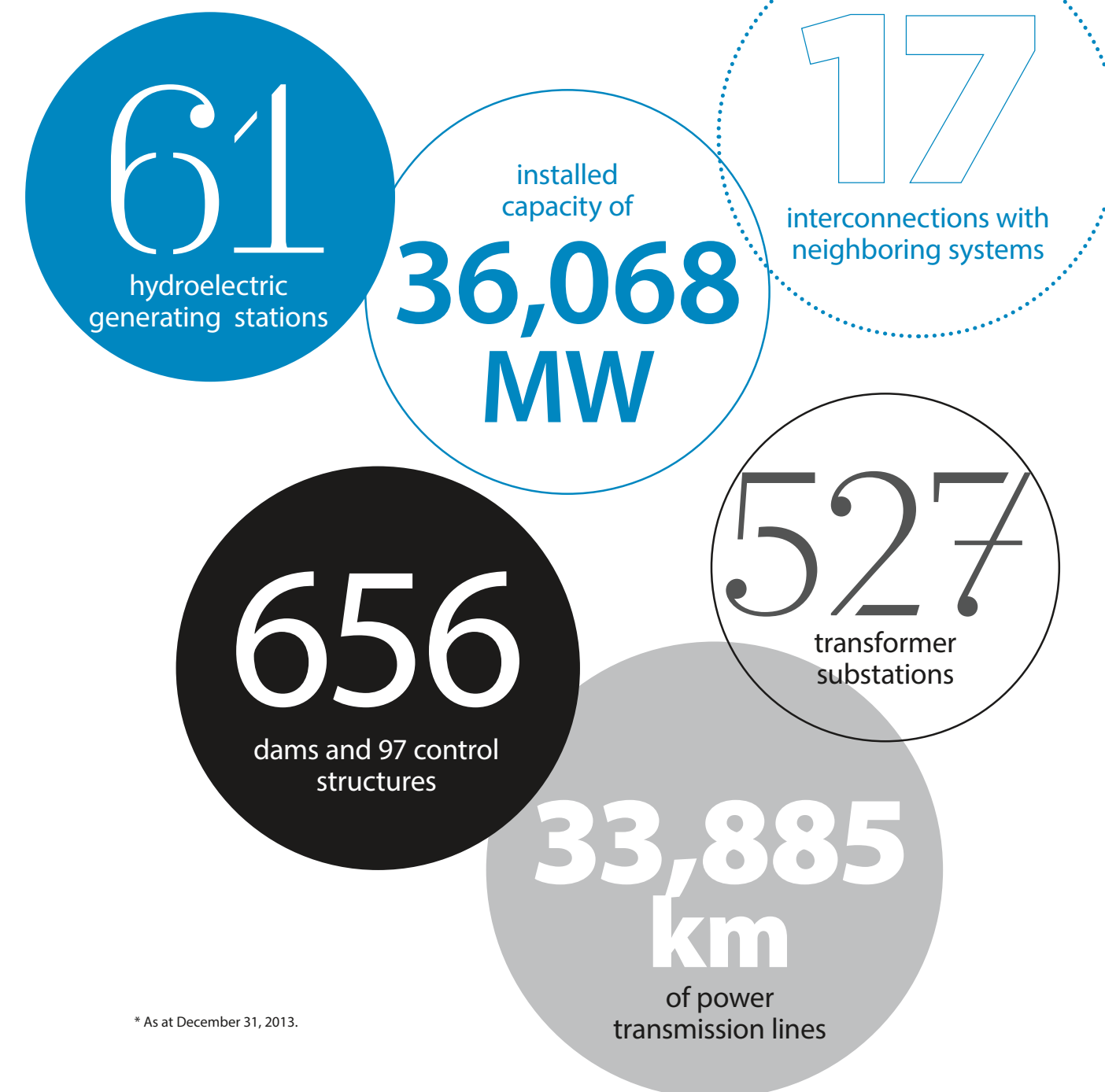


Millions of customers rely on Hydro-Québec, one of the world's largest electricity suppliers, for clean, renewable energy.

Hydro-Québec generates, transmits and distributes electricity. It is fully owned by the Québec government. It produces mainly clean, renewable power, with over 99% of its output coming from its hydro facilities.

A responsible corporate citizen, Hydro-Québec is highly committed to sustainable development. Through its research facilities, the company also conducts R&D in energy-related fields, including energy efficiency.

## Hydro-Québec key figures\*



\* As at December 31, 2013.





# Hydroelectric facilities



**OUR MISSION**

Société d'énergie de la Baie James (SEBJ) and Hydro-Québec Équipement et services partagés, the division under which it operates, manage all aspects of Hydro-Québec's infrastructure projects: engineering, procurement, construction, etc. We are committed to developing optimal ways to build and refurbish generating and transmission facilities in response to the company's needs, with a view to ensuring project delivery excellence.

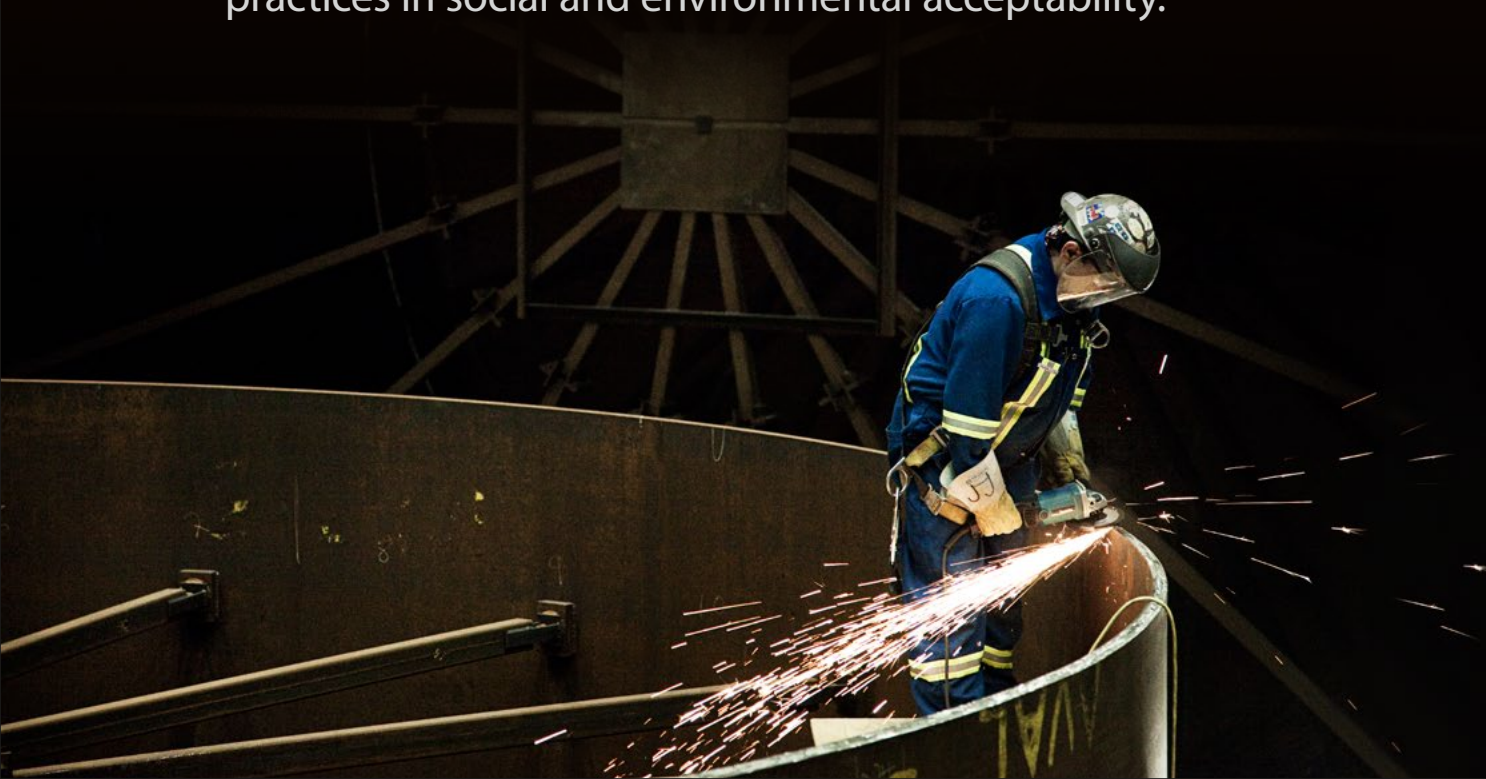
Working in partnership with host communities and industry, we offer high-quality, cost-effective solutions that apply best practices in social and environmental acceptability.

## New perspectives, new horizons

Hydro-Québec's in-house expertise is world-class. Looking to play a larger role on external markets, the company has mandated its subsidiary SEBJ to develop new business opportunities and carry out projects outside of Québec.



**Société d'énergie  
de la Baie James**





An aerial photograph of a large dam structure spanning a wide river. The surrounding landscape is lush with green forests and rolling hills under a clear sky. The text '20' is overlaid in a large, white, serif font, with the '2' partially cut off on the left edge of the frame.

# 20

## OUR VISION

Team players  
committed to  
excellence, recognized  
for their agility and  
the development  
of highly efficient and  
innovative solutions.



# Team





An aerial photograph of a rural landscape. In the foreground, there are green fields and a row of yellow corn. Several high-voltage power lines with metal towers stretch across the landscape. In the background, there are more green fields, some buildings, and distant hills under a clear sky.

C\$3.1  
billion

**VOLUME OF ACTIVITY**

In 2013, Hydro-Québec Équipement et services partagés and SEBJ handled C\$3.1 billion in activities, of which \$2.6 billion related to infrastructure projects for Hydro-Québec Production and Hydro-Québec TransÉnergie.



# Expertise



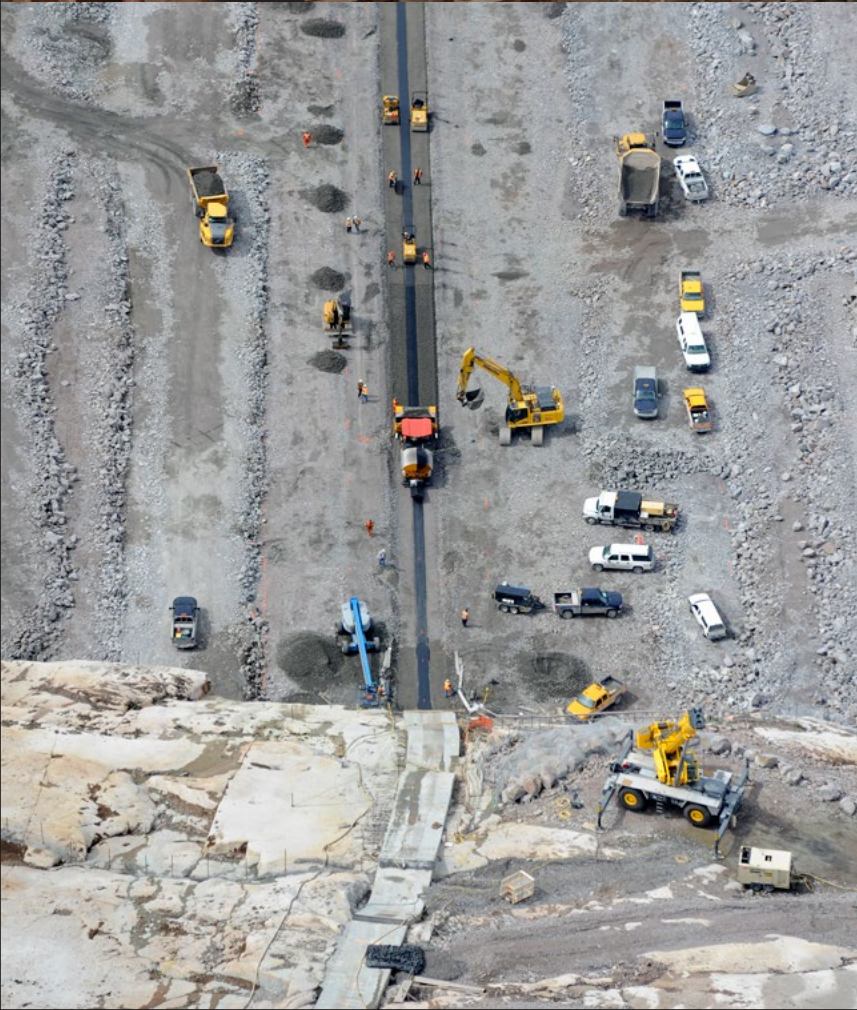
## FIELDS OF ACTIVITY

Our construction projects are driven by 1,750 employees active in wide-ranging fields:

- Project management
- Engineering, procurement and construction
- Public communications
- Environmental assessments
- Social studies
- Environmental management and sustainability
- Geomatics
- In-plant and on-site quality assurance
- Construction management and methods
- Workcamp administration
- Roads and other infrastructure



# Innovative construction





# Well-integrated projects

Every major Hydro-Québec project begins with broad consultation and exhaustive environmental and social impact studies. Our goal? To deliver optimal solutions that integrate measures to prevent, mitigate or compensate for impacts.

## Planning and studies

- Preliminary concept design
- Identification of basic expectations and concerns

## Conceptual design and regulatory approval

- Comparison of variants
- Conceptual design
- Environmental and social impact assessment
- Consultation with stakeholders

## Project delivery

- Detailed engineering
- Procurement
- Camps and infrastructure
- Construction
- Construction management
- Environmental monitoring

## Operations and maintenance

- Startup testing
- Commissioning
- Environmental and social follow-up



## International projects

Over the years, Hydro-Québec has carried out numerous projects in 35 countries around the world. Less present on the international scene in the last while, the company has concentrated its efforts on its own development needs, designing and building more than 10 hydroelectric facilities in the past 15 years. Drawing on its technical and environmental expertise, Hydro-Québec today seeks to market this know-how to various customers by accompanying them as expert advisors.

## Mandates:

- Optimization of development concepts
- Concept review
- Project development program and approach
- Validation of technical and environmental studies
- Environmental and technical training
- Institutional strengthening





## Project management

Through the years, we have gained extensive experience in managing hydroelectric and transmission facility construction and refurbishment projects. In fact, several of our hydro complexes are recognized internationally, among them those in the Baie-James region.

To manage our projects, we count on multidisciplinary teams of specialists who design, organize, carry out and supervise complex activities in compliance with rigorous quality and performance standards.

## Partnering with communities

We maintain solid partnerships with various project stakeholders. For instance, we strongly encourage the participation of host communities and facilitate technology and knowledge transfers to our partners.

## Institutional strengthening

We are an active participant in numerous national and international organizations in the power industry. Under various cooperation projects, we also provide our expertise to developing countries.

## Training

- Project management
- Environmental management
- Impact assessments
- Public participation
- Hydrological and hydraulic studies
- Geotechnical studies

# Project management Partnership Development Training

Our commitment:  
to carry out cost-effective  
renewable energy projects  
that are respectful  
of the environment  
and host communities.



