



Powering positive change

The Hatch H.G. Acres symposium

April 15-16, 2025 | Hotel X, Toronto, Canada

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Your guide to the event:
Scan the QR code for
speaker bios, topic
previews, and the
complete agenda



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Indigenous communities around the world and their connection to the grid

Chelsie Klassen

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A global tour on community-involved energy projects

- Communities drive sustainability, shaping energy landscape
- Explore energy initiatives- prioritize Indigenous Leadership
- Highlighting economic, social, and environmental benefits



A global tour on community-involved energy projects

Ontario



The Wataynikaneyap Power Transmission Project

“The line that brings light”

Details:

- \$1.9 B Dollars
- 22 substations

Length: 1,800 km

Location: Ontario

Keys to Success

- Largest indigenous led power project in Canada
- Connects 17 remote First Nations to the grid
- Partnership between 24 First Nations (51% ownership) and Fortis Inc. (49%)
- Ability to increase 100% ownership in 25 years

Benefits

- Expected to generate significant economic impacts and benefits: Lower cost of service; Improved health outcomes; Avoid diesel spills; Increased energy
- Removes 6.6 Million tonnes of greenhouse gas emissions per year, equivalent to taking almost 35,000 cars off the road.

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A global tour on community-involved energy projects

Amazon, Brazil



RESEX Solar

Details:

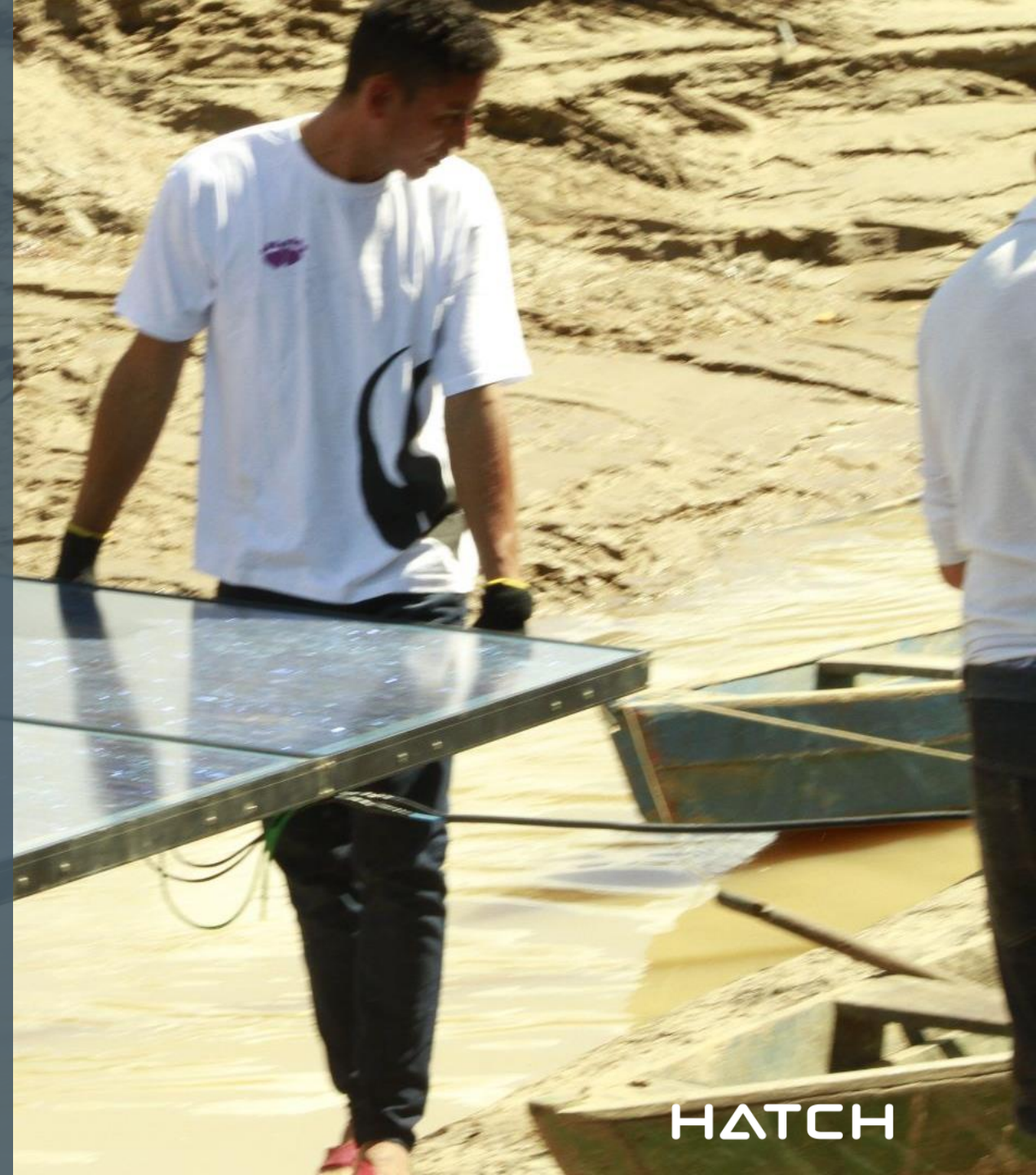
- 1M families with no access to electricity
- Most live in Amazon (isolated)
- Diesel-powered generators replaced with solar PV systems (2016)
- Community training to install/maintain solar energy systems
- WWF-Brazil and other partners
- **Location:** Amazon, Brazil

Keys to Success

- Training led to community ownership
- Community economic growth and reduced fuel spending

Benefits

- Supports local production
- Income generation for the population
- Helps fight deforestation
- Freshwater fish increased with new refrigeration systems (over 160%)
- Social inclusion



A global tour on community-involved energy projects

Whyalla, Australia



Whyalla Hydrogen Power and Storage Facility

Details:

- 200 MW of Hydrogen Power and Storage facility
- 2025 (Construction); 2026(Operational)

Location: Whyalla, Australia

Keys to Success

- Barngarla Determination Aboriginal Corporation (BDAC) assisted South Australia Govt in securing land and negotiating agreement
- BDAC agreement includes:
 - Land handback - 550 hectares of commercial land to Indigenous title holders
 - Commercial benefits e.g., future options for equity stakeholders

Benefits

- Indigenous local participation and employment opportunities (Tailored Industry Participation Plan)
- Creation of 1,000 jobs during facility construction



A global tour on community-involved energy projects

Senegal, West Africa



Taiba N'Diaye Wind Farm

Details:

- Capacity of 158.7 MW
- West Africa's largest wind power plant
- Reached full commercial operation in 2021
- World Bank Group supported with a \$105.4M (€90.6M) guarantee

Location: Senegal, West Africa

Key to Successes

- Strong community engagement approach
- Alignment with national development goals
- Knowledge transfer and capacity building contributed to Senegal's renewable energy sector development.

Benefits

- 450,000 MWh of power generated/yearly.
- 300,000t CO2 avoided/yearly.
- Providing clean energy to 2 million people/yearly.
- Planned investment of \$20M in socio-economic projects for community.

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Shared characteristics



Community energy proponents develop local sustainable energy projects:

Indigenous, local residents, farmer collaboratives, co-operatives, municipalities and other institutions working to develop local sustainable energy projects



Community involvement helps energy projects succeed:

Environmental and community concerns included from beginning
Indigenous communities desire co-ownership, direct involvement, and/or social and economic benefits

Benefits to having early community involvement in Energy Projects

- Local economic and social
- Create local jobs, increase revenue
- Less environmental impacts than conventional
 - Communities keep most of the profit
 - Control operations
 - Creating a healthier environment
- Income generation inspires local ownership



Keys to success



Comprehensive and dedicated policy frameworks



Oversight from policy makers



Coordinate with existing regulatory frameworks



Inclusion of women



Support by global financial institutions/governments



Clear operational guidelines



Training and education



International co-operation to exchange experiences

Questions

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Thank you.

For more information,
please visit www.hatch.com