

North American Supply Chain Energy Management Program

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Commission for Environmental Cooperation

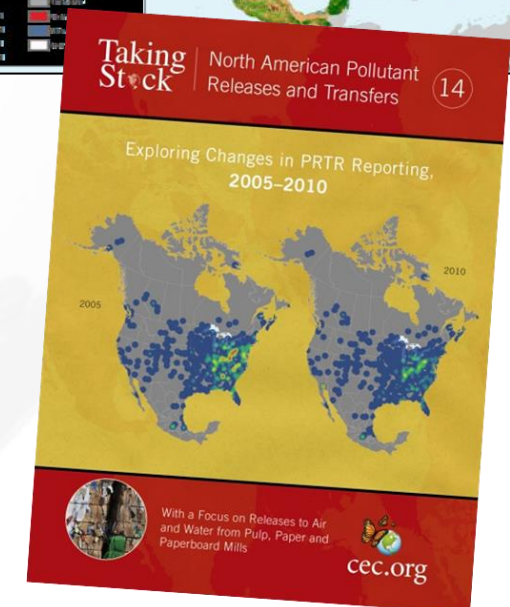
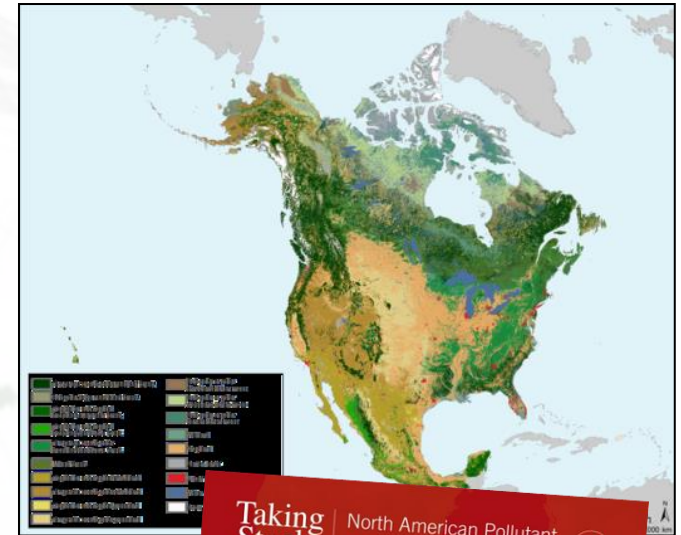


Commission for Environmental Cooperation

- The CEC was created in 1994 by the North American Agreement on Environmental Cooperation (NAAEC), a side agreement to NAFTA.
- The CEC brings together citizens and experts from governments, NGOs, academia and the business sector to seek solutions to protect North America's shared environment, while supporting sustainable economic development.
- CEC Council consists of the environmental agencies of Canada, Mexico and the United States.
- Public participation is promoted across our work and through the Joint Public Advisory Committee.
- The Secretariat provides administrative and technical support for implementation.

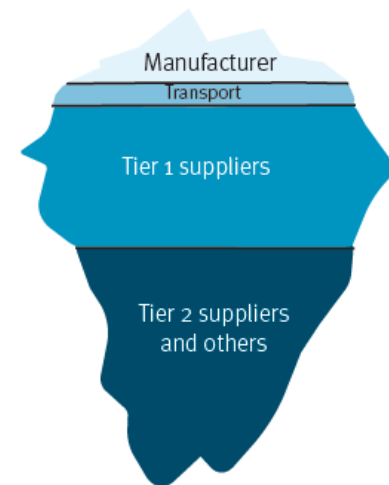
Commission for Environmental Cooperation

- Submissions on Enforcement Matters
- North American Partnership for Environmental Community Action
- Tools and maps
- Virtual Library (cec.org/library)
- Tri-national projects and initiatives
 - Ecosystems
 - Climate change
 - Green Growth



Energy Efficiency in Supply Chains

- North America accounts for 14% of the total global industrial sector energy consumption.
- When looking beyond individual facilities, the energy consumed by a company's suppliers is significant, with embedded energy of a manufacturer's supply chain totaling as much as 10 times that of its own plants.
- Increasing energy efficiency in the industrial and commercial sectors reduces environmental impacts and operational costs.
- One way to increase energy efficiency is through energy management systems.



The ISO 50001 Energy Management Standard

ISO 50001 is an international standard that establishes a framework for industrial plants, commercial facilities or entire organizations to manage energy.

Examples from the auto sector:



- ISO 50001-certified: Puebla facility
- Energy performance improvement of 15% over 2.5 years

NISSAN



- ISO 50001 and SEP-certified: Smyrna, TN facility
- Energy performance improvement of 24% over six years
- US\$4.6 million in annual savings

CHRYSLER



- ISO 50001 certified: Brampton assembly plant
- First Canadian auto assembly plant to be ISO 50001-certified
- Annual energy savings exceed C\$2 million since 2013

Energy Management

North American Cooperation

- At the Clean Energy Ministerial, commitment from 18 governments to support better energy management in organizations through adoption of the ISO 50001 standard.
- The Energy Management Working Group was set up to share knowledge, expertise, and experience in building a business case, providing support and resources and setting policy.
- International Energy Management Campaign goal of reaching 50,001 certifications by 2020.

Energy Management

North American Cooperation

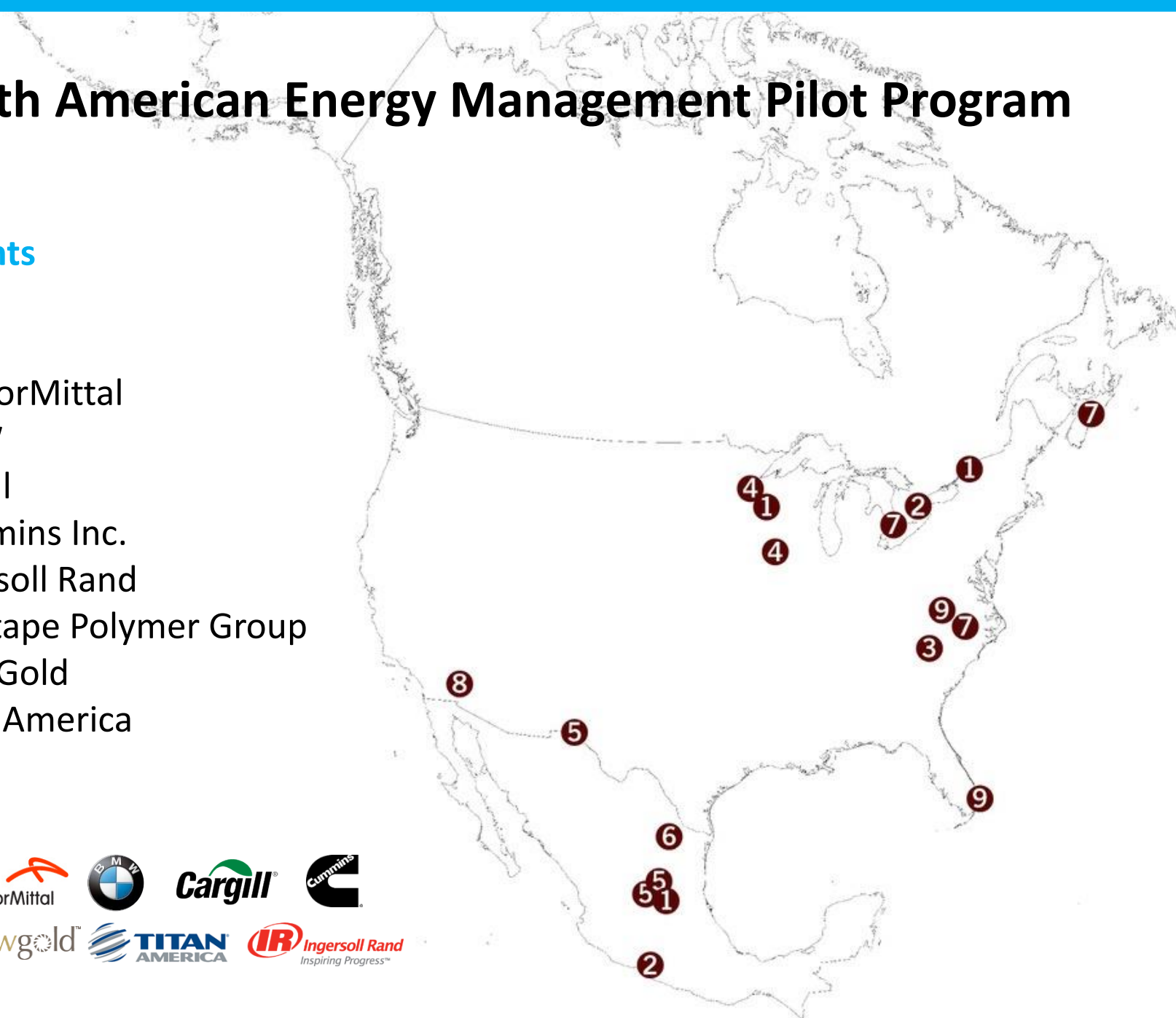
To achieve this goal, North America is collaborating to:

- Work together to interpret and apply ISO 50001 consistently and robustly
- Build the workforce and skills, through training and certification programs
- Develop tools to measure the impacts of ISO 50001 and support end-users in implementing ISO 50001
- Raise awareness about the value of ISO 50001

North American Energy Management Pilot Program

Participants

1. 3M
2. ArcelorMittal
3. BMW
4. Cargill
5. Cummins Inc.
6. Ingersoll Rand
7. Intertape Polymer Group
8. New Gold
9. Titan America



North American Energy Management Pilot Program

- Duration: February 2016 to June 2017
- Two training groups (Spanish and English) met regularly in the three countries.
- Trainers: Georgia Institute of Technology
- Program was cost-shared with the CEC. Companies paid US\$12,000 to enroll one primary facility and two shadow facilities.
- Training included in-person and remote training, three training sessions, personalized coaching and support
- Option to receive a readiness review for ISO 50001 certification

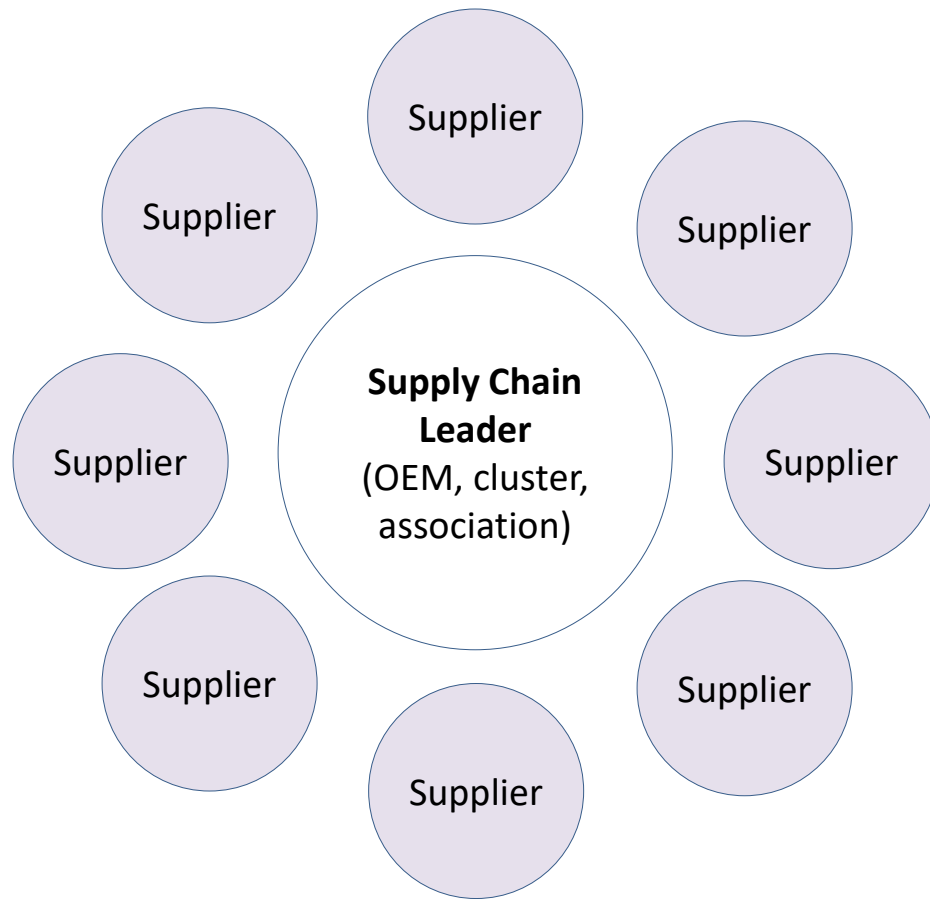


North American Energy Management Pilot Program

Results

- Most participants plan to become ISO 50001-certified by mid-2018.
- About half intend to pursue the Superior Energy Performance Program certification
- In parallel to the pilot program, CEC trained nine energy experts to replicate this type of training in the future.
- Several participants attended meeting of industry leaders, experts and high-level government representatives to discuss efforts and opportunities to drive energy savings in the North America.

Supply Chain Energy Management Program



Now recruiting

- Group of 10-20 companies that share a common energy efficiency goal or vision
- Supply chain energy champion to lead the group of companies

Criteria

- Senior-level commitment to improve energy performance
- Experience with energy management systems and other ISO standards
- Commitment to 50001 Ready Recognition and interest in ISO 50001 certification

Supply Chain Energy Management Program

- Training details:
 - In-person training and webinars
 - In-plant assessment and documents review
 - One-on-one support
 - ISO 50001 Ready Navigator tool
- Duration: 12 months (starting in early 2018)
- Cost: US\$5,000–\$10,000 per company (To be determined based on group size)

www.cec.org/programa-energia

[North American Supply Chain Energy Management Program](#)

Thank you.

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