



# Overview of Cahill Technical Services – Building Sustainable Communities through Best-In-Class Projects and Support

24-August-2024

**Building beyond.**

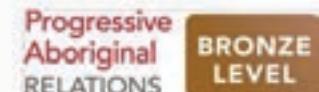
The various legal entities that make up the Cahill Group will continue to operate through Cahill's three primary Operating Groups of Construction, Fabrication and Technical.

# The Cahill Group Overview

- **Privately owned with nimble decision making**
- **70 years of experience on some of the largest projects in Canada**
- **Exceptional Safety & Quality Programs that are part of Cahill Culture**
- **Bronze Certified - Progressive Aboriginal Relations (PAR)**
- **Equity Diversity & Inclusion (ED&I) - Being You at Cahill**
- **Cahill ESG Commitment**



Cahill ESG



## Markets Served

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Oil & Gas



Mining



Water



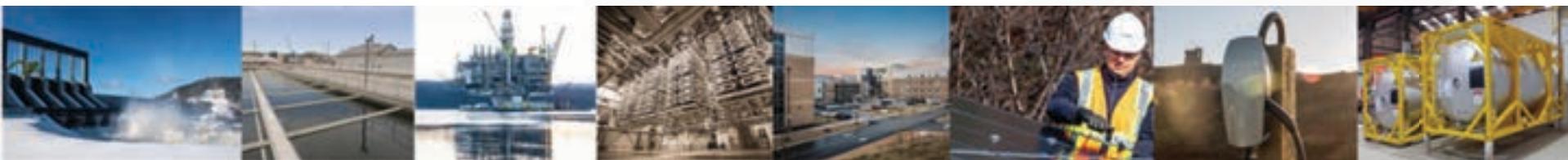
Power



Renewables



Institutional & Commercial

The cahill logo, featuring a stylized blue wave icon followed by the word "cahill" in a bold, lowercase, sans-serif font.  
Building beyond.The cahill FABRICATION logo, featuring a stylized blue wave icon followed by "cahill" and "FABRICATION" in a smaller, lowercase, sans-serif font.The cahill CONSTRUCTION logo, featuring a stylized blue wave icon followed by "cahill" and "CONSTRUCTION" in a smaller, lowercase, sans-serif font.The cahill TECHNICAL logo, featuring a stylized blue wave icon followed by "cahill" and "TECHNICAL" in a smaller, lowercase, sans-serif font.



## Our Mission

**To build strong, sustainable communities through best-in-class projects.**

One of our Guiding Principles: **Building with the future in mind.**

We think about tomorrow when considering the projects we take on, and the impact of our work and our methods. We apply our innovative spirit to find new, sustainable, and respectful ways of working.



## Our Core Values

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### People

People are at the heart of everything we do. We take care of our people and we always put the health, well-being, and safety of our people above all. We take care of our relationships with clients, partners, and communities because we understand it's what our business was built on.

### Progress

We are guided by progressive thinking, empowering our people to find inventive solutions, and to be future-minded. We invest in technology and innovation to find new, sustainable solutions to complex problems. We are committed to continuous improvement, training, and safety practices that meet or exceed international standards.

### Integrity

We're committed to fair and ethical dealings, building long-term relationships with stakeholders and partners, and taking ownership of our work. We are transparent, honest, and respectful and we balance the needs of our company with those of our communities and the environment.

## Our Guiding Principles

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### Be a good citizen.

We treat our people fairly, honestly, and respectfully. We foster mutually beneficial relationships, and we give back to our communities. We understand that of everything we build, the most important is a lasting legacy.

### Build with the future in mind.

We think about tomorrow when considering the projects we take on, and the impact of our work and our methods. We apply our innovative spirit to find new, sustainable, and respectful ways of working.

### Remember where we came from.

We recognize our history, and move forward with the same integrity, and commitment to a job well done. We strive to lead the industry in performance, professionalism, and quality of work.

### Embrace an entrepreneurial spirit.

We come from a long line of innovators. We believe progressive thinking leads to progress. We foster an environment that encourages inventive, creative solutions to complex problems.

### Take care of people.

We respect people's health, wellness, and work-life balance. We understand the importance of inclusion, diversity, and fostering a positive environment that encourages continuous learning and recognizes achievements.

### Cahill is a way, not an office.

Cahill is a community without borders. We strive to ensure our culture reaches all offices and sites across the country, and recognize that everyone, everywhere, is a valued member of the team.

# Cahill Technical: Areas of Expertise



Calibration Lab



Mechanical



Fabrication



Electrical  
& Instrumentation



Design-Build  
& Specialized Services



Emergency & Field  
Support Services

# Cahill Technical Services

## Mount Pearl, NL

### Certifications

- ISO 9001:2015
- CSA Class 3211-09: Industrial Control Cabinets
- Others by special inspection

### Fabrication Area

- Assembly and testing of custom electrical and control cabinets
- Skid mounted and modular process packages
- Maintenance and repair

### Calibration Lab

100m<sup>2</sup> (1,075ft<sup>2</sup>)

### Indoor Fabrication Floor Space

325m<sup>2</sup> (3,500ft<sup>2</sup>)

### Warehouse and Production Area

505m<sup>2</sup> (5,435ft<sup>2</sup>)

### Overhead Cranes

- 10 Tonne (maximum)
- 7.5m (24ft) under hook

### Laydown Area (secure access)

2,090m<sup>2</sup> (22,500ft<sup>2</sup>)

### Electrical Service

600V/60Hz/3φ

### Lab Standards

- Nationally traceable reference standards for temperature, pressure, and dimensional calibration
- EI&C test equipment calibration

### Lab Environmental Controls

- Precise temperature and humidity control required for high accuracy calibration work
- Temp  $20 \pm 1^\circ\text{C}$ ; RH  $40 \pm 3\%$  (adjustable)
- Near-clean room levels of dust control



Panel Fabrication



Calibration Lab

# Laboratory Calibration Services

- Pressure Instruments
- Temperature Instruments
- Dimensional Instruments
- Torque Instruments
- Electrical Test Equipment (i.e. Fluke)
- Mechanical Test Equipment (i.e. Chart Recorder)
- Repair/Replacement/Rental Services



- Started in 1998
- Best equipped calibration lab in Newfoundland
- Temperature and humidity-controlled RH  $40\% \pm 3\%$  ; Temp  $20 \pm 1^\circ\text{C}$
- Clean-room capability
- Static dissipative floor
- Nationally traceable reference standards



# Shop Fabrication Services

- CSA Certified Industrial Control Panel Production Facility. 
- Industrial Process Skids and Container Packages
- Water Treatment Plants
- Mobile Workshops
- Design, engineering, project management, commissioning, maintenance services



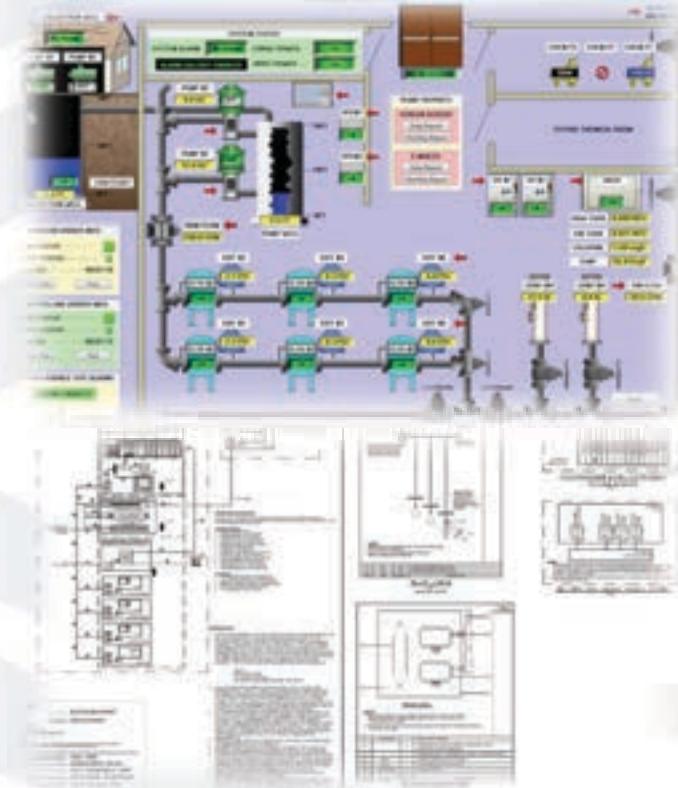
# Field Services

- Electrical Services:
  - Lighting and Heating systems
  - Transformers
  - Grounding
  - Breakers
  - Relays
  - Thermal Imaging
- Instrumentation and Control Services:
  - Pressure
  - Temperature,
  - Flow
  - PLC and SCADA
  - Gas Detection
- Eaton PowerWare UPS Authorized Service Provider



# SCADA, PLC and HMI Integration Services

- Process control system design, programming and integration
- Control panel design and fabrication
- PLC and DCS programming and configuration
- HMI programming and configuration



# Industrial Networking & Cybersecurity

- Design
  - Critical Industrial Networking Solutions
  - Private Point-to-Point Wireless Networks
  - Private Cellular Networks (APNs)
  - Virtual Private Networks (VPNs) with Multi-Factor Authentication
- Install
  - Information Technology (IT) and Operational Technology (OT)
  - Best-Practice Cybersecurity (Firewall, Air Gap, DMZ)
  - Isolation from the internet greatly reduces cyber threats
- Support
  - Remote monitoring via laptop or phone (view, acknowledge, control)
  - Remote tech access for networked devices from anywhere
  - Reduce downtime with immediate troubleshooting from us
  - Reduce site visits by 50 %. Many issues can solved remotely

# Engineering Services

- Registered with PEGNL
- We can support and often work with 3rd Party firms
- Instrumentation & Control System (I&C)
- Electrical Engineering
- Distribution (Switchboards, MCC's, ATS, UPS, etc.)
  - Heat Trace
  - Power Systems Studies:
  - Short circuit
  - Protective device coordination
  - Arc Flash
- Mechanical Engineering Services
  - Plant, utility systems process design
  - Lift plans
  - Predictive maintenance (via subcontract)
- Specification development, tender management services



# Water & Wastewater Treatment

- Design-build modular water treatment plant;
- Water and waste-water capabilities;
- Modular process package;
- Design, construction, testing, installation, commissioning.
- Integrated PLC package.
- Integrated Trihedral VTScada system with remote Internet access to client; and
- Continuous monitoring capability.



# Facilities Maintenance & Support Services

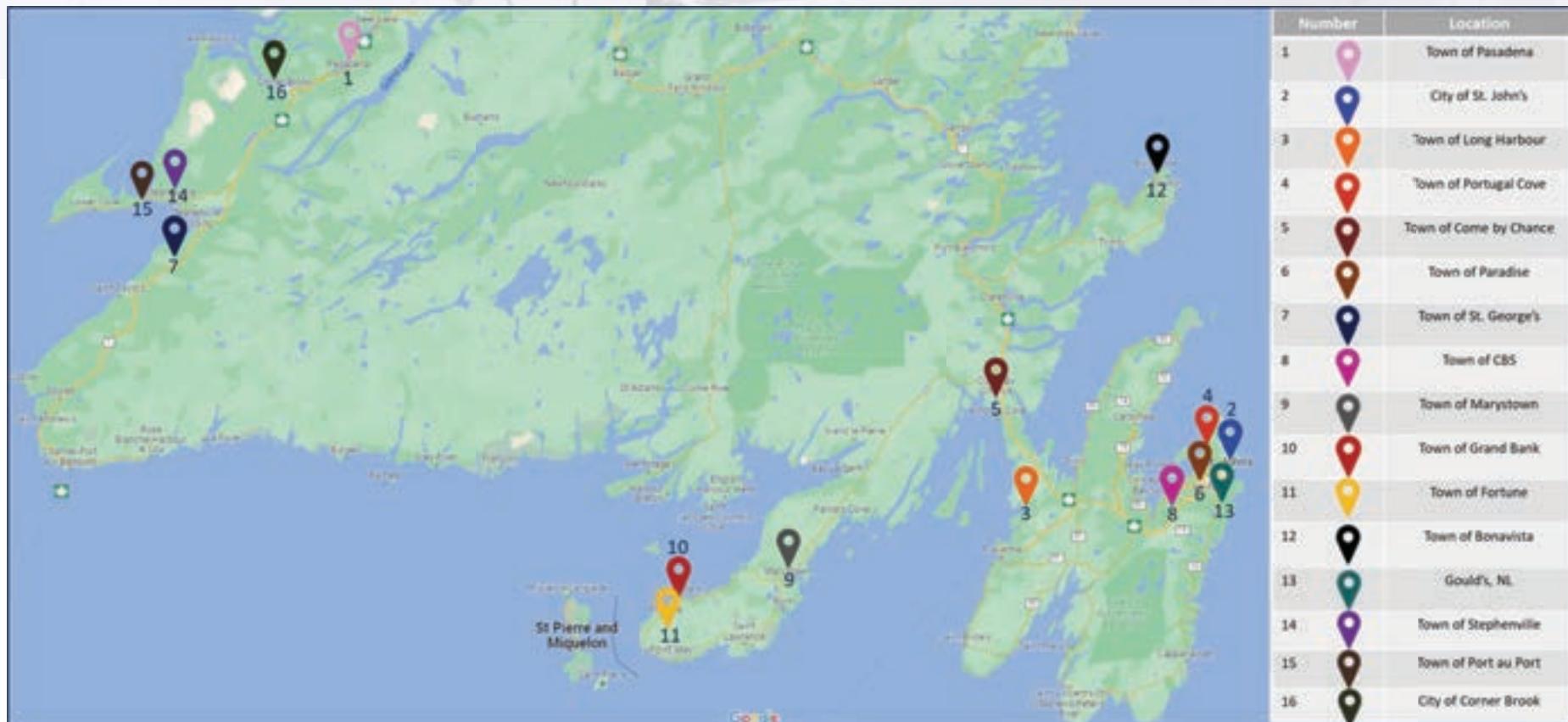
- Best Value Solution
  - 24 | 7 | 365 Support
  - Integrated Multidisciplinary Contractor
  - Single Contact for Routine Maintenance and Large AWRs
  - Turnkey Facility Management Services
- Collaborative & Reliable Performance
  - 70 years of Client-Focused Operations
  - Competent Management Structure for FM Delivery
  - Experienced with Performance Based FM Contracts
  - Flexible Project Management Process to Deliver AWRs
- Emergency backup for critical infrastructure:
  - Generator install
  - UPS install and service
  - Refuel – diesel fuel filtration



# Sample Clients



# Current Communities Served



Recently added: Deer Lake, Wabana, Grand Falls-Windsor, Fogo Island

# Thank you.

Jeff Card – Divisional Vice President  
[jcard@cahill.ca](mailto:jcard@cahill.ca)

Thomas Hayward – Operations Manager  
[thayward@cahill.ca](mailto:thayward@cahill.ca)

Paul Andrews – Engineering Manager  
[pandrews@cahill.ca](mailto:pandrews@cahill.ca)

Brad Forsey – Director of Business Development  
[bforsey@cahill.ca](mailto:bforsey@cahill.ca)

Cahill Technical Services  
2-4 Southern Cross Road  
Mount Pearl, NL  
call. 709-747-3800 fax. 709-747-4010  
[www.cahill.ca/cts](http://www.cahill.ca/cts)

