



2018

# ECONOMIC DEVELOPMENT AND INNOVATION SUMMIT

**Bruce Power**  
*Innovation at work*





# Donna Skelly MPP



Parliamentary Assistant to the Minister of  
Economic Development, Job Creation &  
Trade

ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT







# ONTARIO'S NUCLEAR **ADVANTAGE**

[www.ontariosnuclearadvantage.com](http://www.ontariosnuclearadvantage.com) 

ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT





# Local Supplier Recognition

ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT







**Bruce Power™**  
Innovation at work

BRUCE POWER'S

*Regional Nuclear Supply Chain Network*

# Are you in the surrounding region?

REGIONAL NUCLEAR SUPPLY CHAIN NETWORK

**2<sup>m</sup>Power**

**BIRD**

**CRGenergy**  
ENERGY INC.

**HATCH**

**NUVIA** | CANADA

**Sargent & Lundy**  
Canada Company

**Tt**  
TETRA TECH

**AECOM**

**BURNS  
McDONNELL**

**CTSDNA**  
[How] make the world run better

**IAN MARTIN**

ORGANIZATION OF CANADIAN  
NUCLEAR INDUSTRIES  
**OCNI**  
Clean Energy for a Nuclear-Carbon Economy

**SHORELINE**  
POWER GROUP

**TUNDRA**  
NUCLEAR ENERGY

**AECON**

**Black & McDonald**

**EMC**

**KINETRICS**

**PROMATION**  
nuclear

**Sierra Systems**

**WorleyParsons**  
resources & energy

**ABRAFLEX**

**BCI**  
Building Construction Industry

**ENERGYSOLUTIONS**

**LAKESIDE**

**PTAG**

**SNC-LAVALIN**

**ACUREN**

**Brotech**  
Precision CNC

**FOX**  
U.S. AND CANADIAN TRADES

**MODUS**  
STRATEGIC SOLUTIONS

**Rankin**  
Construction Inc.

**S&RT**  
STEAM  
GENERATOR  
REPLACEMENT  
TEAM

**Alberici**

**BWXT**  
BWXT Canada Ltd.

**framatome**

**N A  
ENGINEERING  
ASSOCIATES INC.**

**RCM Technologies**

**Stantec**

**APTIM**

**cahill**

**GE Power**

**N P X**

**Rolls-Royce**

## ECONOMIC DEVELOPMENT AND INNOVATION SUMMIT



**Year Local Presence Established: 2016**

**Office Location: 3437 Bruce Rd 3  
Paisley, ON**

**Local Jobs: Currently - 25 Full  
/ Part Time Employees  
Estimated within 3 years – 200  
Employees**

**CERTIFIED  
Aboriginal Business**

Canadian Council for  
Aboriginal Business 



**Local Sub-suppliers:**

**SED – Kincardine  
RM Knapp Construction –  
Chesley  
McCullough Fuels – Paisley  
Kinetrics – Tiverton  
Carson Supply – Port Elgin  
Eling – Stoney Creek  
Farrow Group – Ayr  
PHTS – Elmwood  
Sterling – Paisley  
Seal X – Paisley  
Lortech – Brantford  
ABS - Lively**

**Who we are: Abraflex's vision is to be a  
leading local Indigenous company  
supporting the Ontario nuclear industry  
from Bruce County**

**How we support Bruce Power: Currently the  
exclusive supplier of the Mark IIIB Plastic  
Suits & Decontamination Tenting**

**Local Commitment: Purchased 40 acres in  
Paisley, ON and set up a manufacturing facility.  
Hosted the Paisley rest stop for the Gran Fondo  
supporting the Saugeen Memorial Hospital  
Foundation  
Donated to Lucknow Music in the Fields  
Donated to Habitat for Humanity in  
Neyashiinigiing**

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



**Established** in Port Elgin 2008

**Local Office:** 1246 Wellington Street, Port Elgin

**Local Jobs:** 20 & Counting

**Local Sub-suppliers:**

Abraflex - Paisley,  
Kuhl Machine Shop –  
Deboro,  
Ideal Supply, Cora  
Computers, Austin  
Graphics, Sunbelt  
Rentals, SNC-Lavalin –  
Port Elgin  
KW Lift Truck – Dornoch



**Local Commitments:**

- Support the Women's Centre Event
- Silver Sponsor Grand Fondo for Saugeen Memorial Foundation
- Gifts for Christmas Family Saugeen Shores



**Who we are:** An Engineering, Procurement, Project Management and Fabrication provider as well as a full service Non-Destructive Examination execution company. Providing multiple NDE services and NDE tool Innovation for Bruce Power

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





### Office Location:

911 Queen Street, Kincardine

### Year Local Presence Established:

2018

### Local Jobs:

Kincardine office has a 30-employee capacity and we hope to fill it!

### Local Sub-suppliers:

We will support local and indigenous businesses through:

- our Shoreline and SGRT joint ventures,
- our Kincardine office as we grow our business with Bruce Power.

### Who we are:

Leading supplier of nuclear engineering, procurement, construction and maintenance services in Canada and worldwide.



### How we support Bruce Power:

- Steam Generator Replacement and Fuel Channel and Feeder Replacement projects through the Shoreline and SGRT joint ventures
- Independently pursuing other work

### Local Commitment:

- Kincardine office
- Identified nearly 800 potential job candidates for nuclear work – 50% local to TCA
- Support charity programs such as Wounded Warriors, the Royal Canadian Legion, and Challenger Cup Soccer



#### Who we are:

- Canada's largest nuclear construction contractor
- We strive to be the first company that people go to build things that matter.

**Year Local Presence Established:** 2011

#### Local Office Locations:

- 281 Goderich St, Port Elgin, ON
- 665 Philip Place, Kincardine, ON
- Bruce Power

#### Local Jobs:

- Port Elgin – 17
- Bruce Power/Kincardine – 30

#### How we support Bruce Power:

- Project management, procurement, shop fabrication, construction services
- Current – Upgrades of site electrical distribution system, security protection systems

#### Local Commitment:

- 2018 - major investment in renovating and leasing of unused commercial space (20,000 sq. ft.)
- Local recruitment at local job fairs
- Sponsorships, charitable donations – Bruce Power's "Community Partner" package

#### Local Sub-Suppliers (just a few listed):

- Ken Jackson Construction Ltd., Tiverton, ON
- Bluewater Sanitation, Tiverton, ON
- GM BluePlan Engineering, Owen Sound, ON
- Georgian Bay Fire & Safety, Owen Sound

**ECONOMIC DEVELOPMENT  
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#### Who we are:

- Joint venture of Aecon and SGT Canada (an AECOM and Framatome partnership)

**Year Local Presence Established:** 2017

#### Local Office Locations:

- 665 Philip Place, Kincardine, ON

#### Local Jobs:

- Bruce/Kincardine – varies, 20 to 200+

#### How we support Bruce Power:

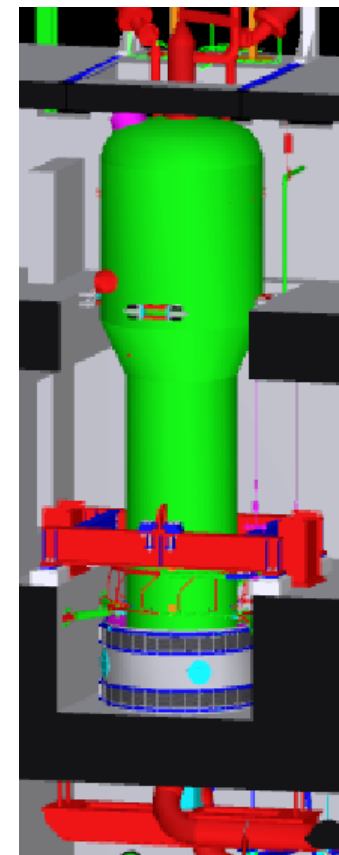
- Installation of replacement steam generators as part of the MCR project

#### Local Commitment:

- Located in renovated commercial space shared with Aecon or Framatome
- Sponsorships, charitable donations – Bruce Power's "Community Partner" package

#### Local Sub-Suppliers:

- Mammoet Canada Eastern Ltd., Guelph ON
- Others not yet named



**ECONOMIC DEVELOPMENT  
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**Year Local Presence Established: 2018**



**Local Office Location:**

- 665 Philip Place, Kincardine, ON

**Local Jobs:**

- Kincardine – 120+



**SHORELINE**  
POWER GROUP

**Who we are:**

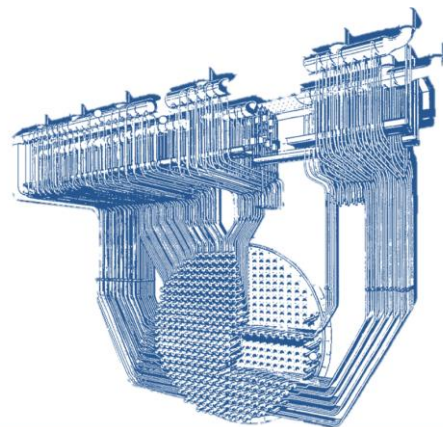
- Joint venture of Aecon, AECOM, SNC-Lavalin performing MCR Fuel Channel and Feeder Replacement project

**How we support Bruce Power:**

- Unit 6 reactor life extension

**Local Sub-Suppliers:**

- MGK Cleaning, Walkerton, ON
- Bruce Telecom, Tiverton, ON
- MicroAge Basics, Kincardine, ON
- Westario Power, Walkerton, ON



**Local Commitment:**

- Leasing of commercial office, 20,000 sq. ft.
- Local recruitment at job fairs

**ECONOMIC DEVELOPMENT  
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**Local Presence Established:** August, 2018  
14,200 Square foot plant, 2 story office



**Bruce Power**  
*Innovation at work*



**Who we are:** Precision machine shop with 7 plants in Ontario started in 1971. Supplying Bruce Power with key components since new build. Current contracts for; Hub, Flanges, Bolts, Positioning Assemblies, Hardware, etc.

**Plant Location:** 201 Elm Street East, Durham, Ontario

**Local Sub-suppliers:**

Over \$70K spent with local subs in the past 3 months

**Local Jobs:** Staff of approximately 5 within one year to manage the following operations; Light manufacturing, Magnetic Particle Inspection, Final Assembly, Inspection, Kitting, Packaging and Warehousing,

**Local Commitment:** BC Instruments purchased this building to demonstrate a long term commitment to the local community. We have hired local subs to refurbish plant, and they have done a truly outstanding job.

**ECONOMIC DEVELOPMENT  
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**Local Presence Established:** March 2018

**Location:**

1802 Hwy 21 N.  
Kincardine, ON

**Local Jobs:**

6-10 over next 2 years

**Local Commitments:**

Donations to Kincardine Legion & Saugeen  
First Nation Food Bank

# BIRD



**Who we are:** Bird is currently in the final stages of completing the MCR Office Complex in Kincardine and continuing a number of other building projects on the Bruce Power site.

With our newly established office in Kincardine, we have been able to hire staff local to Bruce county, furthering our goal of a long term local presence

**ECONOMIC DEVELOPMENT  
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**Local Presence Established: 2017**

**Office Location:** 54 Main St, Tiverton



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**Local Jobs:**

currently 8 staff in local office with up to 20 planned & 300 people at Bruce Power site at peak



**Who we are:** a Canadian company that is an integrated, multi-trade prime contractor serving government, institutions, industry, and commerce across Canada, the United States, and overseas.

**Local Commitments include donations to:**

Wounded Warriors  
Tiverton Lions Club  
Women's Shelter in Owen Sound  
Kincardine Triathlon

Services range from multi-million-dollar construction projects to extensive facility management and operations contracts, to planned maintenance agreements and emergency services.

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**Who we are:** BWXT in Canada has over 60 years of expertise and experience in the design, manufacturing, commissioning and service of nuclear power generation equipment and is now a global supplier of medical isotopes and radiopharmaceuticals.



**How we support Bruce Power:** BWXT Canada has been a supplier of critical components and plant services to the Bruce Nuclear Generating Station since the plant went online in 1977.



**Local Sub-suppliers:**

SUPPLIER	CITY
VANDOLDER CONSTRUCTION SERVICES	ANNAN
PHTS LOGISTICS INC.	ELMWOOD
ERIC COX SANITATION	HARRISTON
SUPERHEAT FGH CANADA INC	KINCARDINE
CTS NORTH AMERICA	KINCARDINE
SPECIAL ELECTRONICS & DESIGNS INC.	KINCARDINE
CTSNA	KINCARDINE
NA ENGINEERING ASSOCIATES INC.	KINCARDINE
ECLIPSE SCIENTIFIC	OWEN SOUND
RADIOCLS INC.	OWEN SOUND
PRAXAIR CANADA INC.	OWEN SOUND

SUPPLIER	CITY
FITNESS CORNER	PORT ELGIN
SAUGEEN GOLF CLUB	PORT ELGIN
COLONIAL MOTEL & ANTIQUES	PORT ELGIN
TOWN OF SAUGEEN SHORES	PORT ELGIN
SAUGEEN SHORE CHAMBER OF COMMERCE	PORT ELGIN
CLEAN & STEAM	PORT ELGIN
BRIDGE ELECTRIC LTD.	SOUTH BRUCE PENINSULA
IAN MARTIN LIMITED	TIVERTON
BRUCE TELECOM	TIVERTON
MAGNETSIGNS	WALKERTON





**Location #1: Local Office** - Established: 2017 |  
*5102 Goderich Street, Port Elgin*

### **Local Jobs**

Current: Vice President, Projects  
Executive Assistant, Projects

Anticipated: Project Support  
and Field Services Training  
Personnel



### **Local Commitment**

- Active member of local Saugeen Shore Chamber of Commerce & Bruce County Center of Excellence
- Charitable contribution to the Saugeen Memorial Hospital Foundation and over \$44K toward Bruce Power charities
- Active participant within Indigenous Relations Supplier Network and Ontario Nuclear Innovation Institute

**Location #2: Manufacturing Facility** - Established:  
2018 | 1875 16th Ave. East, Owen Sound

### **Local Jobs**

Anticipated: Fitters/Welders, Inspectors,  
Shop Supervisor, Planner/Scheduler,  
Manufacturing Engineer, Document  
Control Clerk/Administrative Assistant

### **Local Commitment**

- Joined Owen Sound Chamber of Commerce and commit to being an active member
- Sponsoring three bursary awards for the Owen Sound Georgian Bay campus
- Held a two day Career Fair on September 28<sup>th</sup> and 29<sup>th</sup> in Owen Sound at new facility

**ECONOMIC DEVELOPMENT  
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**Local Presence Established:** 2005

**Office Location:**

1475-5<sup>th</sup> Concession  
Kincardine  
(2<sup>nd</sup> Floor of  
Municipal Building)



**Who we are:** a professional services company specializing in Recruitment, Consulting, Project Management and Outsourcing.

**How do we support Bruce Power?**

By delivering Engineering and Technical Solutions and Services



**CTSDNA**<sup>®</sup>  
[You] make the **world** run better

**Local Jobs:** Employ two local employees and over 100 local Contractors.

**Local Sub-suppliers:**

Independent Contractors within Grey/Bruce Area

**Local Commitment:**

Sponsor for Handbags for Hospice, Support United Way Bruce Grey Children's Foundation, Kincardine Food Bank, Sponsor to Liv a Little Foundation, Unity for Autism and Warriors' Gala.

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EMC is a privately owned, operated and local contractor providing Engineering, Procurement, Construction services.

EMC supports Bruce Power with our highly experience construction support and trade staff, the Bruce Power Indigenous Mentorship and Partnership Programs, and supporting other suppliers with qualified services well working on Bruce Power site.

Local Presence Established: 2007

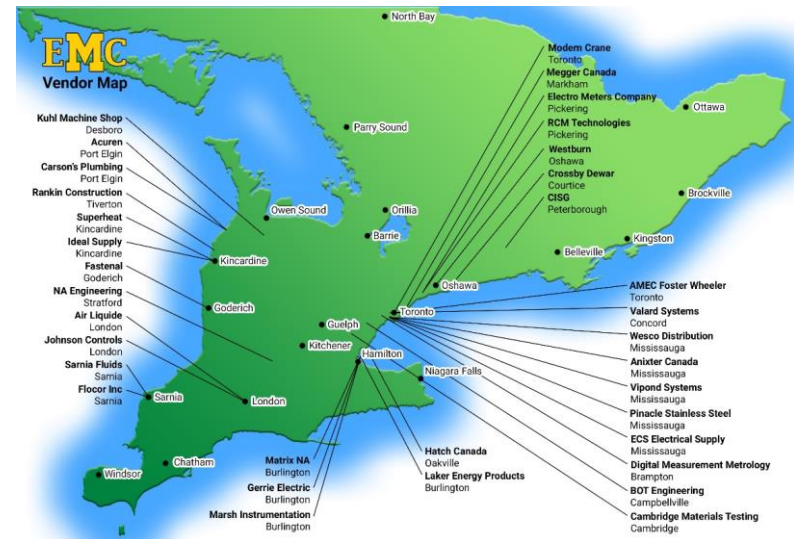
**Office Location:** 2091 Hwy 21,  
Kincardine, Ontario since November 2015

### Local Jobs:

Tri-county residents 122

### Local Commitments:

Kincardine soccer lighting Project, Kincardine hospice, Gran Fondo kids event, Nawash firehouse donation, United Way, Wounded Warriors, Port Elgin minor baseball, Kincardine Boys minor soccer



ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT



**Local Presence Established: 2017**

**2 Local Locations:** 14265 Bruce Rd 10, Elmwood & 457 Side Road 30, Bruce Township , Tiverton

**Local Jobs:** At the Elmwood location, currently employ 25 staff from local communities.



**Local Sub-suppliers:**

A&M Trucks Parts, Walkerton, ON  
McCullough Fuel, Paisley, ON  
Beckenhauers Garage, Elmwood, ON

**Local Commitment:**

- \$5000 in support of the Saugeen Ojibway Nation's Youth Leaders in Training
- Member of the Indigenous Relations Supplier Network
- Member of the Canadian Council for Aboriginal Business.



**Who we are:** EnergySolutions is an industry leader in the safe recycling, processing, transportation and disposal of nuclear material.

**How we support Bruce Power:** For over a decade, EnergySolutions Canada has provided Bruce Power, safe & reliable services for processing of Low level radioactive waste, transportation, storage & decontamination services.

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Local Presence Established:

**12+ Years (2006)**

Off-site facility: Offices, Whse & Admin:  
**5568 Hwy.9 Kincardine**

Local Jobs (Non-Trades)

**39 of 45**

*~85% located in Tri-County*

Trades Resources (range)

**200+**

*~80% Tri-County Resources*

Local  
Sub-suppliers /  
Affiliate  
Relationships



Supporting  
Bruce Power  
for over

**15 Years**



**Bruce Power**  
Innovation at work

**Who we are:**

E.S. Fox Limited was founded in 1934 and is an Ontario based, Canadian owned and operated multi-trade company headquartered in Niagara Falls.

Since 2003, E.S. Fox continues to support Bruce Power through a commitment and focus on Safety, Quality, Schedule and creating Value as a key supplier for construction and fabrication services.

**E. S. Fox is committed to supporting the local economy & building indigenous relationships:**

- Annual Sponsor Bluewater Outdoor Education/ Astronomical Center, construction of the E.S. Fox Observatory
- Habitat for Humanity - Grey Bruce Corporate Team Build Day in Neyaashiinigmiing with commitment for future support

**~\$100k +**

**Annual donations & support**



**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



## Local Presence Established: 2008

**Office Location:** 2091 Highway 21, Kincardine, ON

### Local Jobs:

Current – 64 staff based out of Kincardine facility

Expected growth – 80+ by end of 2019



**Local Sub-suppliers:** Committed to utilizing local suppliers in every aspect of our business.

Examples include:

TimberMart, Country Depot, Rona, Cliff's Plumbing & Heating, Huronia Welding & Industrial Supplies, Montgomery Ford, Bruce Telecom, Fastenal, BM Ross, Canada Steel, Edward Fuels, J&D Signs, SuperHeat, Ideal Supply, Cottrill Heavy Equipment, Presto Crest, Acklands Grainger, Carson Supply, Jackson Construction, Praxair, PHTS Logistics, Contractors Rental Supply, Scott's Industrial Farm Supplies, Elma Steel, United Rentals, Tennyson's Safety & Rental



**Who we are:** a world-class nuclear products and services provider. Framatome Canada is Framatome's CANDU Centre of Excellence and Single Point of Contact for the world-wide fleet. We integrate Framatome's global network of experience, with innovation and problem solving, to provide CANDU specific solutions.

**How we support Bruce Power:** Framatome supports Bruce Power through our long-term High Voltage Maintenance Program, engineering, construction and providing innovative concepts and solutions.

**Local Commitment:** Since establishing a local presence in 2008, Framatome has exhibited a continuous commitment to support both local businesses and charitable events/organizations. Framatome continues to make all efforts to hire locally and has committed to utilizing as many local suppliers as possible. Recent community involvement and/or sponsorships include: Kincardine Soccer Field Lighting Project, Liv-a-Little Foundation, local athletic associations and several other community driven events and initiatives.

ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT



**Local Presence Established: 2018**



**Office Location:** 910 Queen Street, Kincardine

GE provides equipment and services for various Bruce Power strategic equipment.

**Local Jobs:**



GE Power

Currently 2 local full-time persons at site

Local presence established for outage prep – 6-12 GE Employees (6-8 months)

Local presence established for outage execution – 50 GE Employees. (2-3 months)

**Local Commitment:**

- Commitment for 3 more specialists: control engineer hired, business manager is in process
- Considering options for recruiting local field service talent thru FieldCore





**Local Presence Established: 2016**

**Office Location:** 216 Goderich Street, Port Elgin



**Bruce Power™**  
*Innovation at work*

# HATCH

**Who we are:** Entrepreneurs with a technical soul

We support Bruce Power with on time delivery of Infrastructure and Asset Management projects.

**Local Commitment:**

- Relocated staff to the area who have purchased houses – 75% of our staff live in Bruce County
- Moved into a larger office space to accommodate the increase in local staff
- Participate in and donate to numerous local charities and community events
- Developed an App to track the Saugeen Shores Trolley – a major summer attraction
- Hosted the First Nations Engineer for a Day program
- Board member of local organizations

**Local Jobs:**

Engineers, Technicians  
and Administration

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



**LOCAL PRESENCE SINCE:** 2004

**OFFICE LOCATION:** 54 Main St, Tiverton ON

**LOCAL JOBS:**

Local Office 2-3

Contract Staff 100+ over the next  
2-3 years



**IAN MARTIN**

**LOCAL COMMITMENT:**

Ian Martin has provided over \$100,000 to local charities and volunteered with many local organizations, including Habitat for Humanity, Big Brothers & Sisters, Huron Shores Hospice, the Tiverton Lions Club and the Saugeen Nation.



**Bruce Power**  
*Innovation at work*

**WHO WE ARE:**

Ian Martin specializes in Engineering, Technical, and IT recruitment and contractor management to help organizations of all sizes hire better.

**HOW WE SUPPORT BRUCE POWER:**

For over 27 years, Ian Martin has helped Bruce Power succeed on its projects by providing highly qualified technical talent and industry-leading contractor management services.

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



**Local Presence Established:** 2017  
Tiverton and Teeswater

**Locations:**

4258 Country Road 4  
Teeswater, ON

141 Farrell Drive  
Tiverton, ON

**Local Jobs:**

35-50 new jobs

**Local Sub-suppliers:**

- Abraflex, Paisley, ON
- Bruce Telecom, Tiverton, ON
- Over 20 other Bruce County sub suppliers in 2017/18
- Spending over \$5M into local economy



**Bruce Power**  
*Innovation at work*

**Who We Are:**

Life Cycle Management  
for the Electricity  
Industry

**How We Support Bruce Power:**

Quality Engineering,  
Testing and  
Inspection of System  
Critical Components

**Local Commitment:**

- Invested in 2 new facilities
- Hired local staff
- Support Community through sponsorship at Wingham Food Bank and Women's House
- Respectful of SON Traditional Territory

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





## *NA Engineering Associates Inc.*

- Local to Kincardine Since 2007
- 7 Tri-County Area Employees / 70+ Ontario-Based Employees

### *Who We Are:*

- A Multidisciplinary Engineering Firm

### *How We Support Bruce Power:*

- Engineering / Consulting Support for 150+ Projects on the Bruce Site
- Have supported projects working directly for Bruce Power since 2001
- Drawdown Agreement With Bruce Power

### *Local Commitment:*

- Local Engineering / Consulting Support for Non-Nuclear Clients
- Engineering / Consulting Support for 200+ Local Projects
- Support for Local Charities / Non-Profits
- Volunteerism

### *Our Local Suppliers*

- Other local consultants and vendors in the Tri-County Area



**NA**  
**ENGINEERING**  
ASSOCIATES INC  
*Consulting Engineers*

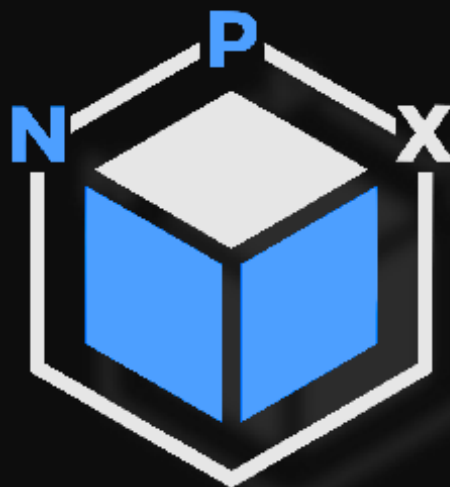
Kincardine Office  
933 Queen St.  
Kincardine, Ontario  
Canada, N2Z 2Y2



Our Local Presence was  
Established in: **2018**



Our Office:  
**819 Queen St., Kincardine**



Who are we?

*We are a group of nuclear  
innovators and engineers.*



How do we support Bruce Power?

*We actively incorporate innovative  
technology and ideas into Bruce  
Power's operational model.*



Our Local Jobs:

- **10 Innovation Catalysts in Kincardine**
- **An additional 10 roles expected in 2019**



Our Local Commitment:

- **Kinetic Knights Robotics Team 781**
- **Kincardine Stargazing Night**
- **Walk a Mile in her shoes**
- **Huron Shores Hospice**
- **Habitat for Humanity – home build in Neyaashiinigmiing**
- **Big Brothers & Sisters Kincardine**
- **Bruce Power Innovation Summer Camp for Grade 9**



**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



**Year Local Presence** Established: 2018



**Bruce Power**  
*Innovation at work*

**Office Location:** Nuvia Plaza  
55 Main Street, Tiverton

**Who we are:** International nuclear services, engineering, and project management provider

We provide radiation protection services to Bruce Power



**Local Jobs:** Recruiting 10 office positions during 2019  
150+ trades to be hired during MCR project

**Local Commitment:**

Investment in 5500 sq. ft. local training facility  
Active recruitments and job fairs  
Engagement with local training colleges

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





**Local Presence Established: 2018**



**Office Location:** 625 Goderich St, Port Elgin

**Local Jobs:**

2 local employees & co-located with Bruce Power's Indigenous Relations Suppliers' Network

A local office for members to utilize when travelling to the region.



**Who we are:** an association of more than 230 companies that supply equipment and services, directly and indirectly through Tier 1 suppliers, to Bruce Power, OPG and offshore utilities and nuclear laboratories.

**Local Commitment:**

- As a not-for-profit organization, we encourage members to support local charities.
- In addition, OCNI has directly supported- The Saugeen First Nation Foodbank - Non Perishable Food Items and Monetary Donations; Huron Shores Hospice and the Saugeen Memorial Hospital Foundation - Bronze Sponsor to the Grand Fondo \$1000.00

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





# PROMATION nuclear

Progressive  
Aboriginal  
RELATIONS COMMITTED

Canadian Council for  
Aboriginal Business

We are a diverse and socially responsible group of professionals, collaboratively contributing our extensive industrial, engineering and innovative experience to the Nuclear Industry.

As a project partner to Bruce Power, Promotion Nuclear is currently supporting Major Component Replacement (MCR) activities utilizing our extensive industry knowledge, tooling and innovation expertise and supporting the MCR program with our robust project and program management experience.

Local Employee Count: 5

#### Full-Time

- Katherine Collins - Business Development Coordinator

#### Frequent Rotation in Bruce County

- Bruce Conning - Sr. Applications Associate
- Anna Masarik - Manager, Proposals and Marketing
- Mike Ruysseveldt - Director, Business Development
- Darryl Spector - President

#### We Support Local Economy & Charities

**2017-2018 Total Contributions – Over \$25,000!**

#### Contributions of Note

- Battle of the Blades - Platinum Sponsor \$1,000
- BRASS Awards - Sponsor \$1,000
- Saugeen First Nation Charity Golf Tournament - Gold Sponsor \$3,500
- Gran Fondo Lake Huron - Silver Sponsor \$2,500 and raised \$3,630
- S.S. Trolley - Sponsor \$1,000
- Kincardine Soccer Light Project - Sponsor \$4,000
- Saugeen Youth Leadership Dinner - Sponsor \$2,000



We opened our new office doors in August 2017!  
559 Goderich St. Port Elgin, ON.



Gran Fondo Lake Huron



## LEADERS IN LOCAL SUPPLIER COLLABORATION

#### Habitat for Humanity in Nawash



#### S.S. Trolley



Soccer Lighting Project

## ECONOMIC DEVELOPMENT AND INNOVATION SUMMIT





**Local Presence Established: 2018**

**Office Location:**

146 Albert Street South, Southampton, ON

**Local Jobs:**

We currently have an office that can accommodate up to 12 employees (1 is currently lives in Saugeen Shores and 9 others are there during the week) and we plan to hire locally for both

Administrative and software development roles, with at least 8 full time staff.



**Local Commitments:**

PTAG is a contributor to the local Saugeen first Nations food bank and the Wounded Warriors foundation through the Bruce Power Warrior's Gala.



**Who we are:** PTAG is a Capital project services partner, supplying advisory services, people and software systems for major capital projects.

We supply Bruce Power with Project controls and Project management people and services for both capital and ongoing operations projects. We are a Construction Industry Institute (CII) partner delivering best practices training to both Bruce Power and its contractors.

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





**Local Presence Established: 2004**

**Office Location:**

3245 Bruce County Road 20,  
Tiverton, ON N0G 2T0

**Local Jobs:**

Currently 29 local jobs

**Local Sub-suppliers:**

- Teeswater Concrete, Tiverton, ON
- Carson Supply, Port Elgin, ON
- Norm Campbell Construction, Tiverton, ON

**Local Charities:**

Bruce Power Charitable Golf Tournament \$4,000.00  
Bruce Power Sponsored Wounded Warriors Gala \$5,000.00  
Kincardine Soccer field lighting \$3,000.00 plus concrete for footing and pad.  
Kincardine Food Bank  
Kincardine Women's House



**Who we are:**

Rankin Construction Inc.

- Heavy Civil Contractor.
- How we support Bruce Power  
Working as both a prime and subcontractor in the civil and architectural sectors at Centre of site and the Stations.

**Local Commitments:**

- Purchase materials from local suppliers whenever possible.
- Hire local employees for office and field staff.
- Participate in local charities, fundraisers, sports teams

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



**Local Presence Established: 2002**



**Bruce Power™**  
Innovation at work

**Office Location:**

1475 Concession #5 Kincardine , ON

**Local Jobs:**

- Currently employ 30 staff at Bruce Site and local office
- 22 staff reside full time in Tri-County area
- Actively recruiting with aim to increase to locally based staff to 30+ in the next 2 years



**Local Commitments:**

- Expanded local office in 2017
- Support multiple local events & charities, including:
  - United Way
  - Saugeen Ojibaw Nation's Youth Leaders in Training Dinner
  - Bruce Power Charity Golf Tournament
  - Handbags for Hospice
  - Swing, Shoot & Liv Golf Classic
  - Warrior Gala
  - Rebuilding Lives
  - Kincardine Scottish Festival
  - Port Elgin Pumpkinfest
  - Saugeen First Nations food bank

**Who we are:** RCMT is a premier provider of business and technology solutions, providing engineering design, project management and technical support services.

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



Local Presence Established: **2017**

**Office Location:** 5108 Highway 21, Port Elgin

**Local Jobs:** Currently 11 individuals  
with 3 more anticipated in 2018



# Rolls-Royce

**Local Sub-suppliers:**

Price Schonstrom Inc. – Walkerton  
Kuhl Machine Shop Ltd. – Desboro  
Acuren Nuclear Services Inc – Port Elgin

**Local Commitments:**

- Involved with Local STEM Mentoring Programs in Saugeen Shores
- Sponsorships and participation in local events such as Handbags for Hospice and Kincardine Scottish Festival
- Conducted food donation events for Saugeen Shores Salvation Army Food Bank



**Bruce Power™**  
*Innovation at work*

**Who we are:** Rolls-Royce is a global company using the latest digital technology to help our customers generate more power for longer for their communities and businesses

**How we support Bruce Power:**

Providing services associated with T-104 Program, Obsolescence Management, Parts Readiness, and design-build activities

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





□ **Year Local Presence Established:**

- 2017 (3 Offices in Kincardine)

□ **Who we are:**

- Engineering Firm Established in 1891, dedicated to the power industry

□ **Primary Office Location:**

- 801 Queen Street, Kincardine, ON N2Z 2Y2

**Sargent & Lundy**  
Canada Company

□ **How we Support Bruce Power:**

- We provide engineering, project management and consulting support

□ **Local Commitment:**

- Local:
  - Housing leases for all staff (>40)
  - Support for local athletic organizations
  - Volunteer in charity events

□ **Local Jobs:**

- Engineers
- Project Managers
- Project Coordinators

□ **Local Sub-suppliers:**

- CTSNA
- Tundra
- Ian Martin
- Cronos





**SNC • LAVALIN**

**Who we are:** With an unwavering commitment to safety, quality and efficiency, SNC-Lavalin provides nuclear technology and full service solutions for nuclear power projects around the world.

Year Local Presence Established: Sep 2017

Office Location:  
5102 Highway 21, Unit 4, Port Elgin

Local Jobs: 30 by end Q4 2018

**How we support Bruce Power:** SNC-Lavalin works collaboratively with Bruce Power to provide Engineering Services, Field Services and MCR Life Extension Tooling and Design Support.

**Local Commitment:** We employ local talent, sponsor and participate in community events (Kincardine Scottish Festival & Highland Games, Platinum Sponsor of the Gran Fondo, etc) , embrace and support Indigenous communities and culture.

**Local Suppliers:**

Sunset Blinds, Kincardine  
HDTV and Electronics, Walkerton  
Montgomery Industrial Services, Wingham  
Staples, Owen Sound  
Bruce Telecom, Kincardine  
Port Elgin restaurants (catering meetings)  
Progressive Results Group, Kincardine

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



Local Presence Established: **2018**



**Office Location:** 926 Queen Street, Kincardine

**Local Jobs:**  
5 local employees



**Local Commitments:**

2017 - Right to Play - \$5000

2018 – Warriors Gala Event - \$5000

**Who we are:** Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind. We're an 18,000+ international team of designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships.

**How we Support Bruce Power:** We have been privileged to provide architectural, mechanical, electrical, structural and civil engineering services to Bruce Power, most notably on their MCR Office Complex in Kincardine.

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





**Local Presence Established: 2018**



**Bruce Power**  
*Innovation at work*

**Office Location:** 233 Broadway St, Kincardine

**Local Jobs:** 3 currently  
With up to 20 more



**Local Commitments include:**

- United way of Bruce Grey: Total of \$7,000
- Women's center Grey and Bruce: \$500
- South Saugeen Hospital Foundation: \$5,000
- Wounded Warriors Canada: \$5,000
- Kincardine Soccer field lighting project: \$2,000

**Who we are:** Tetra Tech is a leading provider of consulting and engineering services. The Company supports government and commercial clients by providing innovative solutions focused on water, environment, infrastructure, resource management, energy, and international development. With more than 17,000 associates worldwide, Tetra Tech's capabilities span the entire project life cycle.

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**



Local Office Established 2016

278 Lambton Street, Kincardine

Tundra is a global provider of innovative staffing solutions and services. We support Bruce Power by providing Talent Acquisition and Payrolling Services since 2009.

# TUNDRA

HUNT · GATHER · THRIVE

## Local Jobs:

- Account Representative
- Technical Recruiter
- Onboarding Specialist

## Local Sub-suppliers:

- 2M Power – Kincardine
- Hurontel - Kincardine

## Local Commitment:

- Local office & local Employees
- Co-Op Education Placements
- Financial Support for Minor Hockey

ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT

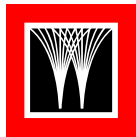


Year Local Presence Established: 2018



**Office Location:** 810 Queen  
Street, Kincardine, ON

**Local Jobs:** 20 Full Time Positions



**WorleyParsons**

resources & energy

**Who we are:** WorleyParsons provides professional services within the hydrocarbons, power, infrastructure, minerals & metals and chemicals sectors delivering Engineering & Design, Safety & Licensing, Training, and Operations & Maintenance services in the Nuclear industry.

**Local Commitment:**

- Engagement with Bruce Power, OCNl and the IRSN at local Career Expos for recruitment of local candidates including Indigenous Peoples
- Indigenous Education Scholarship, \$4,000
- Bruce Power 17th Annual Charity Golf Tournament, \$4,000

**How we Support Bruce Power:**

WorleyParsons is currently supporting Bruce Power's Operations & Maintenance Training requirements and is the Engineering Integration Services Provider for the Electro-Hydraulic Control (EHC) & Turbine Supervisory Instrumentation (TSI) Replacement Project

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**







**Bruce Power™**  
Innovation at work

BRUCE POWER'S

*Regional Nuclear Supply Chain Network*

# Are you in the surrounding region?

REGIONAL NUCLEAR SUPPLY CHAIN NETWORK

**2<sup>m</sup>Power**

**BIRD**

**CRGenergy**  
ENERGY INC.

**HATCH**

**NUVIA** | CANADA

**Sargent & Lundy**  
Canada Company

**Tt**  
TETRA TECH

**AECOM**

**BURNS  
McDONNELL**

**CTSDNA**  
[How] make the world run better

**IAN MARTIN**

ORGANIZATION OF CANADIAN  
NUCLEAR INDUSTRIES  
**OCNI**  
Clean Energy Nuclear Carbon Economy

**SHORELINE**  
POWER GROUP

**TUNDRA**  
NUCLEAR ENERGY

**AECON**

**Black & McDonald**

**EMC**

**KINETRICS**

**PROMATION**  
nuclear

**Sierra Systems**

**WorleyParsons**  
resources & energy

**ABRAFLEX**

**BCI**  
Building Construction Industry

**ENERGYSOLUTIONS**

**LAKESIDE**

**PTAG**

**SNC-LAVALIN**

**ACUREN**

**Brotech**  
Precision CNC

**FOX**  
U.S. AND CANADIAN

**MODUS**  
STRATEGIC SOLUTIONS

**Rankin**  
Construction Inc.

**S&RT**  
STEAM  
GENERATOR  
REPLACEMENT  
TEAM

**Alberici**

**BWXT**  
BWXT Canada Ltd.

**framatome**

**N A  
ENGINEERING  
ASSOCIATES INC.**

**RCM Technologies**

**Stantec**

**APTIM**

**cahill**

**GE Power**

**N P X**

**Rolls-Royce**

## ECONOMIC DEVELOPMENT AND INNOVATION SUMMIT





2018

# ECONOMIC DEVELOPMENT AND INNOVATION SUMMIT

**Bruce Power**  
*Innovation at work*







**Bruce Power™**  
*Innovation at work*

# Mike Rencheck



*Innovation at work*

President & CEO  
Bruce Power

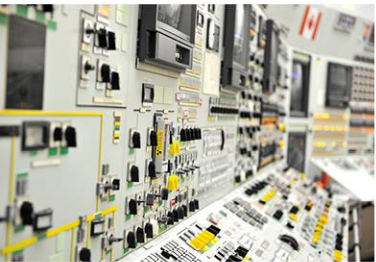
ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT





# Securing Our Future, Together

November 16, 2018



**Mike Rencheck, President and CEO**

**Bruce Power™**

*Innovation at work*

# Overview

- **Paving the way:**  
2018 activities and key accomplishments
- **The path to excellence:**  
an overview of the long-term investment program
- **Securing our future:**  
where we're going and how we're getting there



# Paving the Way: Our Role in Ontario

- Reliable source of low-cost power – generate 30% of Ontario's electricity at 30% below the average residential cost
- Clean – Toronto has had zero smog days since 2014, down from a high of 53 in 2005
- Saving lives – medical isotopes – sterilize 40% of single-use medical devices worldwide and cancer treatments



**30%**  
of Ontario's  
energy provided  
by Bruce Power.



Clean.



Saving lives  
every day.

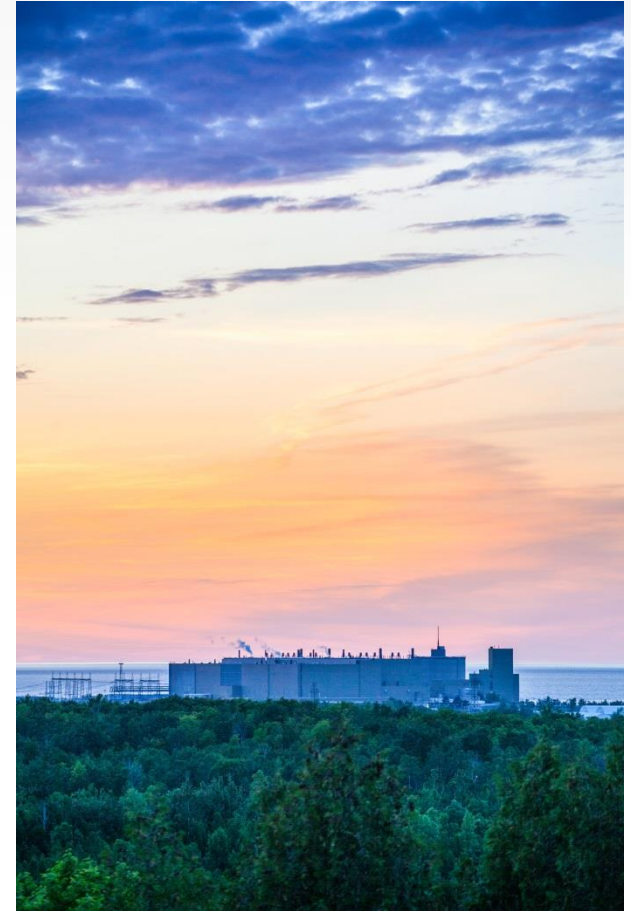


Low-cost.



# A Look Back at 2018

- Received 10-year licence renewal from CNSC, allowing the site's eight units to operate through 2028
- Submitted Basis of Estimate to IESO on Oct. 1, completing Refurbishment Lock-In Date deliverables
- Investments/projects delivered safely, with quality, on time and on budget
- Further explored opportunities for radioisotope production
- Early community engagement on Nuclear Innovation Institute



# The Path to Excellence: Our Agreement

- Bruce Power Refurbishment Implementation Agreement announced in 2015
- Extends life of units to 2064
- Secures 6,400 MW through a multi-year, \$13 billion investment
- Maximizes the value of these assets to Ontario's electricity system – Asset Management and Major Component Replacement

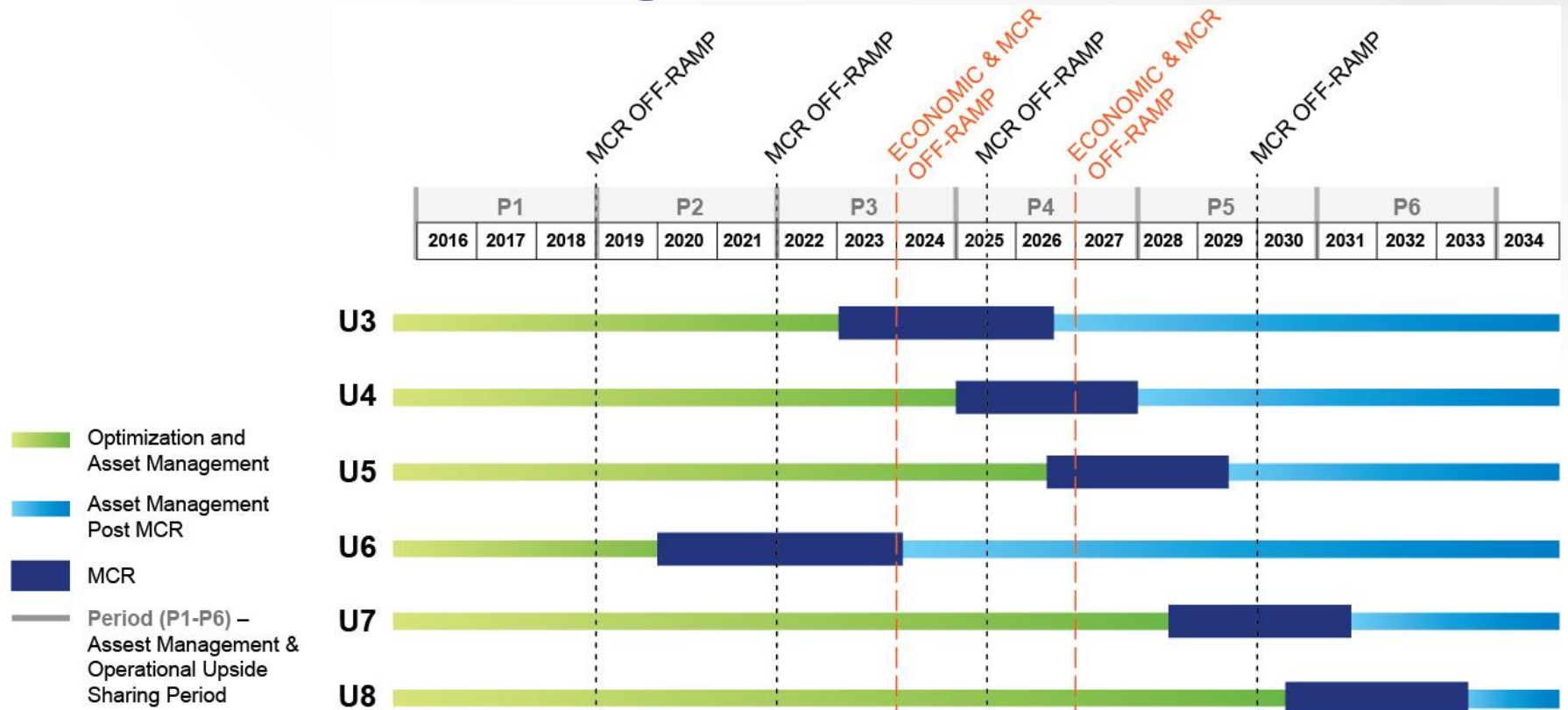


# Agreement with the Province

Item	Amended BPRIA
<b>Agreement</b>	<ul style="list-style-type: none"><li>• Site agreement with single price for energy</li><li>• 6 units to be refurbished and life extended</li></ul>
<b>Term</b>	<ul style="list-style-type: none"><li>• 2064 (subject to contractual off-ramps)</li></ul>
<b>Refurbishment Cost</b>	<ul style="list-style-type: none"><li>• Fixed cost provided prior to the refurbishment outage – Bruce Power will take 100% of overruns</li><li>• A sharing mechanism will be used for under-spends</li></ul>
<b>Refurbishment Off-Ramps</b>	<ul style="list-style-type: none"><li>• IESO can exercise off-ramp over pre-determined cost threshold</li><li>• IESO has off-ramps if proceeding with refurbishments is no longer economic</li></ul>



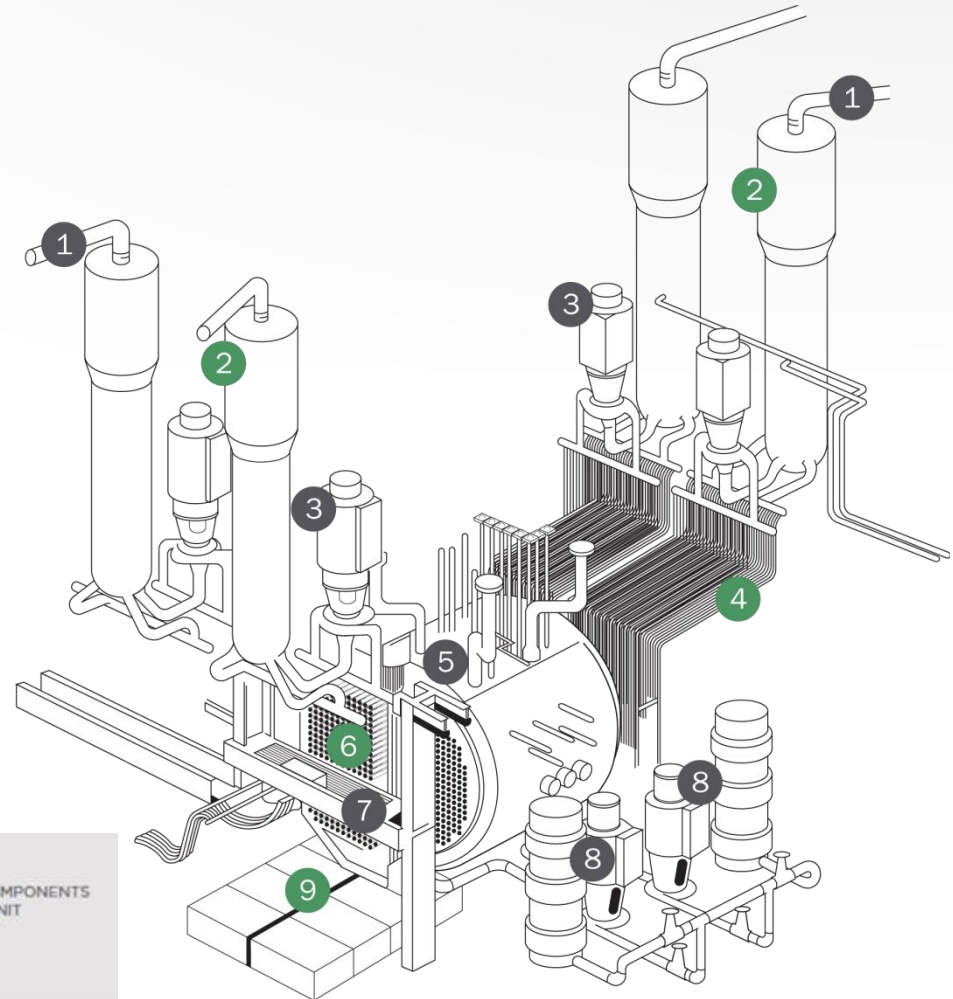
# Investment Program Overview



- 1. Optimization** – inspection and maintenance to extend core component life
- 2. Asset Management** – replaces system components – pumps, motors, valves
- 3. MCR** will focus on three major life-limiting components, including Fuel Channels, Feeders, Steam Generators

# Major Component Replacement

- Reactor shutdown and defuel
- Bulkhead installation
- Feeders
- Fuel channels
- Steam generators
- Return to service



## ILLUSTRATION LEGEND

1. Main Steam Supply Piping
2. Steam Generators
3. Main Primary Supply Pumps
4. Feeders

5. Calandria Assembly
6. Fuel Channel Assembly
7. Fuelling Machine Bridge
8. Moderator Circulating System

● = MAJOR COMPONENTS  
IN EACH UNIT

# Securing Our Future: Strategic View

- The future of our industry and the success of Bruce Power relies on:
  - Safely operating our units
  - Executing our outages and our projects, on time and on budget
  - A commitment to innovation and sustainability
  - Maintaining strong partnerships, and community and policy support



# Countdown to Unit 6 MCR



**Bruce B Admin Building**

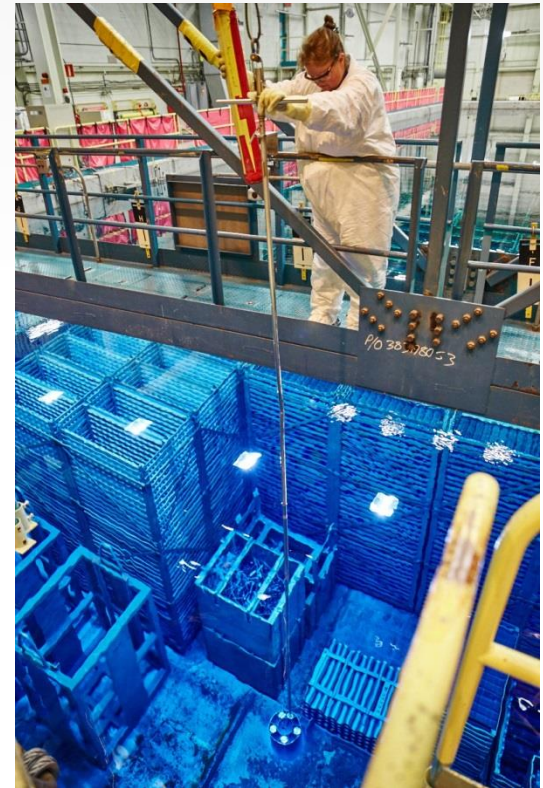


**MCR Training Facility**

**Preparations on-schedule, on-budget.**

# Innovation and Sustainability

- Leveraging innovation collectively as an industry – sharing information, working with suppliers, MOUs
- Medical isotopes – Bruce Power and others in the industry are laying the groundwork
- Nuclear Innovation Institute – applied research and training, business acceleration and incubation, talent development and training, benefiting rural Ontario's youth



# Partnering for the Future

- **In 2016** – 9 suppliers located in 3 communities, occupying less than 40,000 sq. feet of office space
- **Today** – over 40+ suppliers in 9 communities, filling over 250,000 sq. feet of office, warehouse and manufacturing space

2<sup>nd</sup> Power

Brotech  
Precision Die

IAN MARTIN

RCM Technologies

AECOM

BWXT  
BWXT Canada Ltd.

KINECTRICS

Rolls-Royce

AECOM

cahill

LAKESIDE

George & Lundy  
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STRATEGIC SOLUTIONS

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[They] make the world run better

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Alberici

EMC

N X

SNC-LAVALIN

APTIM

ENERGYSOLUTIONS

NUVIA | CANADA

SMART  
STEAM  
GENERATOR  
REPLACEMENT  
TEAM

BIRD

FOX  
CONSTRUCTION

ORGANIZATION OF CANADIAN  
NUCLEAR INDUSTRIES  
OCNI

Stantec

BURNS  
MCDONNELL

framatome

PROMATION  
nuclear

Tt  
TETRA TECH

Black & McDonald

GE Power

PTAG

TUNDRA  
HEAT - WATER - STEAM

BCI  
Building Construction Inc.

HATCH

Rankin  
Construction Inc.

WorleyParsons  
resources & energy



# Video

## ***Bruce Power's Nuclear Supply Chain Network: Are You in the Surrounding Region?***



# Looking Ahead

- We're not done yet – expanding our local economic development program to acknowledge our broader nuclear supply chain



# Powering Ontario's Economy

“Bruce Power nuclear provides low-cost electricity for Ontario’s families and businesses. Bruce Power also supports over **20,000 jobs** and invests **\$4 billion into Ontario’s economy** every year.”

ONTARIO CHAMBER  
OF COMMERCE





# Looking to the Future

- Together, we're embarking on the largest infrastructure project in Canada
- Need to keep the dialogue going – advocate for our communities, our region and our industry, share ideas and insights
- Expand our horizons – spin-off opportunities, energy hub
- Training and education



# Announcement

# Questions?



2018

# ECONOMIC DEVELOPMENT AND INNOVATION SUMMIT

**Bruce Power**  
*Innovation at work*







# Rocco Rossi



President & CEO  
Ontario Chamber of Commerce

ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT



# Ron Oberth



President & CEO  
Organization of Canadian Nuclear Industries





# OCNI Role in Supporting Economic Development in Bruce Region

**Bruce County Economic Development Summit**  
**Bruce Power Corp Office**  
**November 16, 2018**



**ORGANIZATION OF  
CANADIAN NUCLEAR  
INDUSTRIES**

*Clean Energy for a Low Carbon Economy*

# About OCNI

The **Organization of Canadian Nuclear Industries** (OCNI) represents a broad range of Canadian nuclear suppliers – majority of members are SME's

**230** companies / **12,000** highly skilled people increasing to 20,000 when Ontario refurbishment projects are underway



## CONNECTION

Linkages between suppliers & utilities .



## READINESS

Increase supplier skills and resources



## GLOBAL REACH

Develop international opportunities.



## ADVOCACY

“Ontario Nuclear Advocacy Team”



# OCNI is Committed to Bruce County

67



OCNI/ IRSIN Shared Office in  
Port Elgin



OCNI/IRSIN Office Opening  
on March 21, 2018

OCNI Bruce Power / Bruce  
County Liaison Office Alison  
Fernandes



# OCNI FNMI Engagement Initiative

Led by Mike Ruysseveldt of Six Nations of the Grand River (and Promotion Nuclear)

Work with Bruce Power's Indigenous Relations Suppliers Network (IRSN)

***“develop programs in collaboration with Bruce Power and OPG that encourage young people in FNMI communities to seek education and training leading to careers in the nuclear supply chain”***

OCNI FNMI Engagement 3-year Business Plan, October 31, 2018



# Hydrogen Projects in Bruce County

OCNI helped to “incubate” the Bruce County hydrogen project concept at its office in July 2018

OCNI supported HBC’s presentation to Bruce County Council on October 18, 2017

***“Bruce County is well positioned to demonstrate leadership and capitalize on the opportunity to become the “Hydrogen Capital of Canada”. HBC White Paper, 09/18***



# STEM/Trades Resources in Bruce County

OCNI partners with Bruce Power on the STEM Outreach in Bruce County Program

OCNI Chairs the Bruce County STEM STEAM /Skilled Trades Engagement Committee

***“This committee of Bruce County suppliers engages with Bruce and Grey County schools, community groups to create STEM / STEAM and skilled trades awareness, access and engagement.”***



**Bruce Power STEM  
Outreach Engagement  
Program**



# Nuclear Innovation Institute Headquarters

*“... while a site is being chosen and constructed, a temporary headquarters for the Institute will be established at the offices of the Organization of Canadian Nuclear Industries, at 625 Goderich St., Port Elgin starting in January 2019”*

Bruce Power, November 9, 2018



# Collaboration among suppliers in Bruce County

OCNI actively encourages member companies to open offices in Bruce Region

“Talk Tuesday” events every month at OCNI/IRSN Port Elgin Office enhance collaboration among the Bruce County suppliers and the Bruce community

- invitation list is at 140 and growing

Strong suppliers relationships leads to teaming, innovation and more investment in Bruce County



# OCNI uses its “Convening Power”

US Nuclear Industry Council (USNIC) delegation visited Bruce Power & OPG in August 2017



USNIC brought 30 US suppliers to Ontario for a Leadership Summit in late August 2018

**Bruce County is on their radar**



# Conclusion

OCNI is a “convening force” in helping to bring suppliers to Bruce County to support Bruce Power (operations and MCR) and other complementary projects in Bruce County: NII initiatives, hydrogen infrastructure, and possibly SMR’s (longer term)





[www.ocni.ca](http://www.ocni.ca)

**Ron Oberth**

President & CEO

[ron.oberth@ocni.ca](mailto:ron.oberth@ocni.ca)

905-839-0073

**Alison Fernandes**

Bruce Power Liaison

[Alison.fernandes@ocni.ca](mailto:Alison.fernandes@ocni.ca)

416 -618-0024



ORGANIZATION OF  
CANADIAN NUCLEAR  
INDUSTRIES

*Clean Energy for a Low Carbon Economy*



# NUCLEAR INNOVATION INSTITUTE

Frank Saunders, President, Nuclear Innovation Institute  
Marianne Nero, A/CAO, County of Bruce

## Bruce Power, County of Bruce announce Ontario's Nuclear Innovation Institute *May 16, 2018*



Bruce Power and the County of Bruce have partnered to establish the Ontario Nuclear Innovation Institute as an international centre of excellence for applied research and training. Making the announcement are Paul Eagleson, left, Warden, County of Bruce; Kelley Coulter, Chief Administrative Officer, County of Bruce; Lisa Thompson, incumbent MPP, Huron-Bruce; Mike Rencheck, President and CEO, Bruce Power; and Mike Smith, Mayor, Town of Saugeen Shores.

# Ontario's Long-Term Energy Plan confirms Bruce Power's role in providing low-cost, carbon-free electricity for decades

NEWS PROVIDED BY

**Bruce Power**

Oct 27, 2017, 10:45 ET

SHARE THIS ARTICLE



TIVERTON, ON, Oct. 27, 2017 /CNW/ - The Government of Ontario has reconfirmed its long-term electricity supply policy that will see Bruce Power, and nuclear, play an important role in the province's energy sector for decades.

The 2017 Long-Term Energy Plan was released after a year of public consultation and government review. The plan reiterates the importance of Bruce Power's Life-Extension Program, which will see the site provide low-cost, carbon-free and reliable electricity through 2064.

"We are encouraged by the trust the government continues to have in Bruce Power to provide over 30 per cent of Ontario's electricity at 30 per cent less than the average cost to generate residential power, while producing zero carbon emissions," Rencheck said.

"Our Life-Extension Program, which began on Jan. 1, 2016, is on time and on budget, and continues to boost Ontario's economy in every corner of the province."

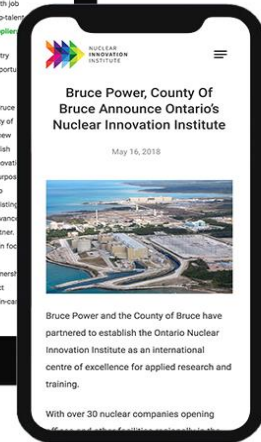
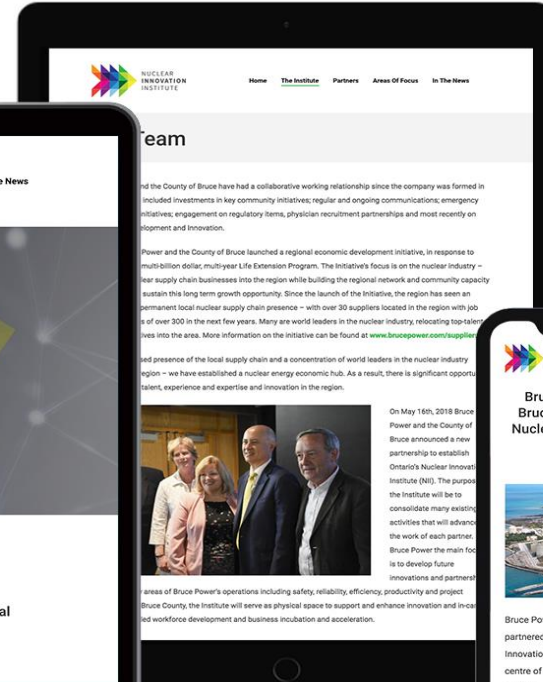
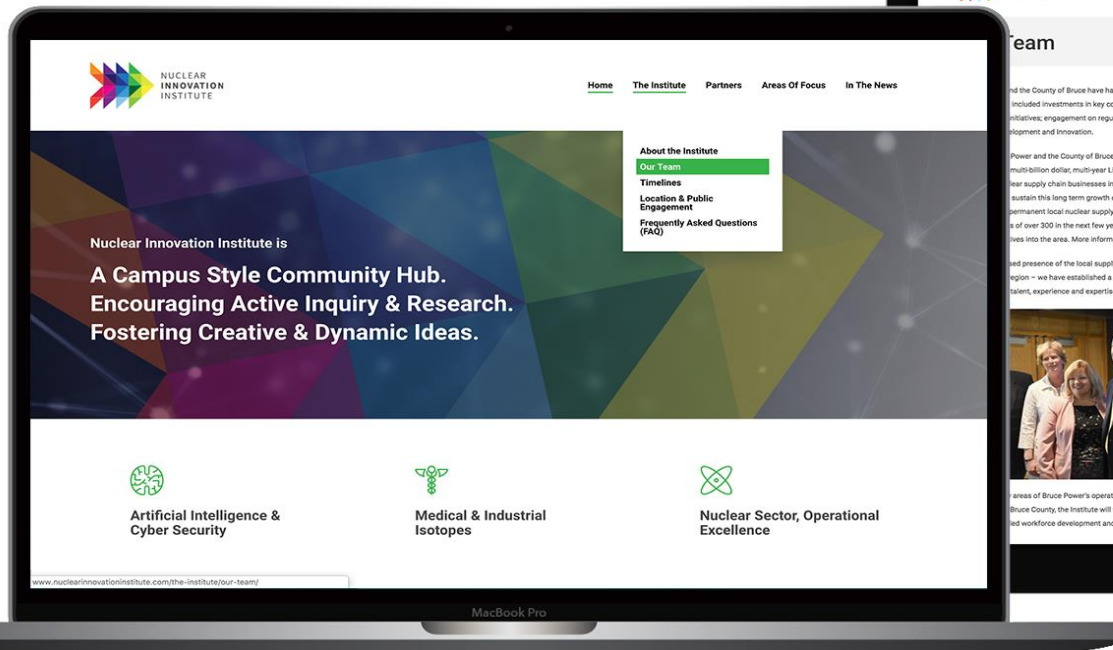
The government also recognized Bruce Power's other attributes, including its production of medical isotopes, which save lives in Ontario and around the world. Bruce Power's investment programs and operations also create and sustain 22,000 jobs directly and indirectly each year, while injecting \$4 billion into the economy annually, all while keeping Ontario's air clean and providing low-cost electricity.



# A Changing Landscape



**Bruce Power™**  
Innovation at work



NUCLEAR  
**INNOVATION**  
INSTITUTE

# Partners



- Local and Regional Governments
- Indigenous Communities
- Strategic Suppliers
- School Boards
- Post Secondary Institutions
- Research and Development Institutions
- Industry Associations and Institutions



# Initial Focus Areas - NII



- Enhanced Education
- Artificial Intelligence and Digital Technology
- Health and Medical Isotopes
- Environment and Global Warming
- Operational Excellence
- Economic Development
- Skilled Trades and Training





# Enhanced Education



**Bruce Power™**  
*Innovation at work*



**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





# Artificial Intelligence (AI) & Digital Technology



**Bruce Power™**  
Innovation at work



ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT



# Health & Medical Isotopes



- Bruce Power has a long-term agreement with Ottawa-based Nordion to produce over half the world's supply of Cobalt-60.
- LSA Cobalt-60 is used for:
  - Sterilization of medical equipment.
  - Sterilization of consumer products and food.
  - Combat spread of Zika virus.
- HSA Cobalt-60:
  - Only produced in a small number of nuclear reactors globally.
  - Radiation-based treatment of cancer and other diseases.
  - Non invasive treatment: Gamma Knife.
- MOU established to determine the feasibility of producing short-lived medical-use isotopes at Bruce Power.

COBALT-60

SAVING LIVES WITH  
NUCLEAR ENERGY

Cobalt-60 from Bruce Power helps  
to sterilize 40% of the world's  
single-use medical devices.

[www.cleannuclearpowersafehospitals.com](http://www.cleannuclearpowersafehospitals.com)







**48**  
**COBALT**  
**RODS**  
HARVESTED  
FROM BRUCE B  
UNITS IN 2017

**8**  
**HIGH**  
**SPECIFIC**  
**ACTIVITY**  
COBALT RODS  
LOADED INTO  
BRUCE B  
UNITS TO BE  
HARVESTED  
IN 2019

**35 MILLION**  
**CANCER PATIENTS**  
TREATED WITH HIGH  
SPECIFIC ACTIVITY (HSA)  
COBALT-60 IN THE  
PAST 60 YEARS

**70,000**  
approximate number  
of Gamma Knife  
procedures each year

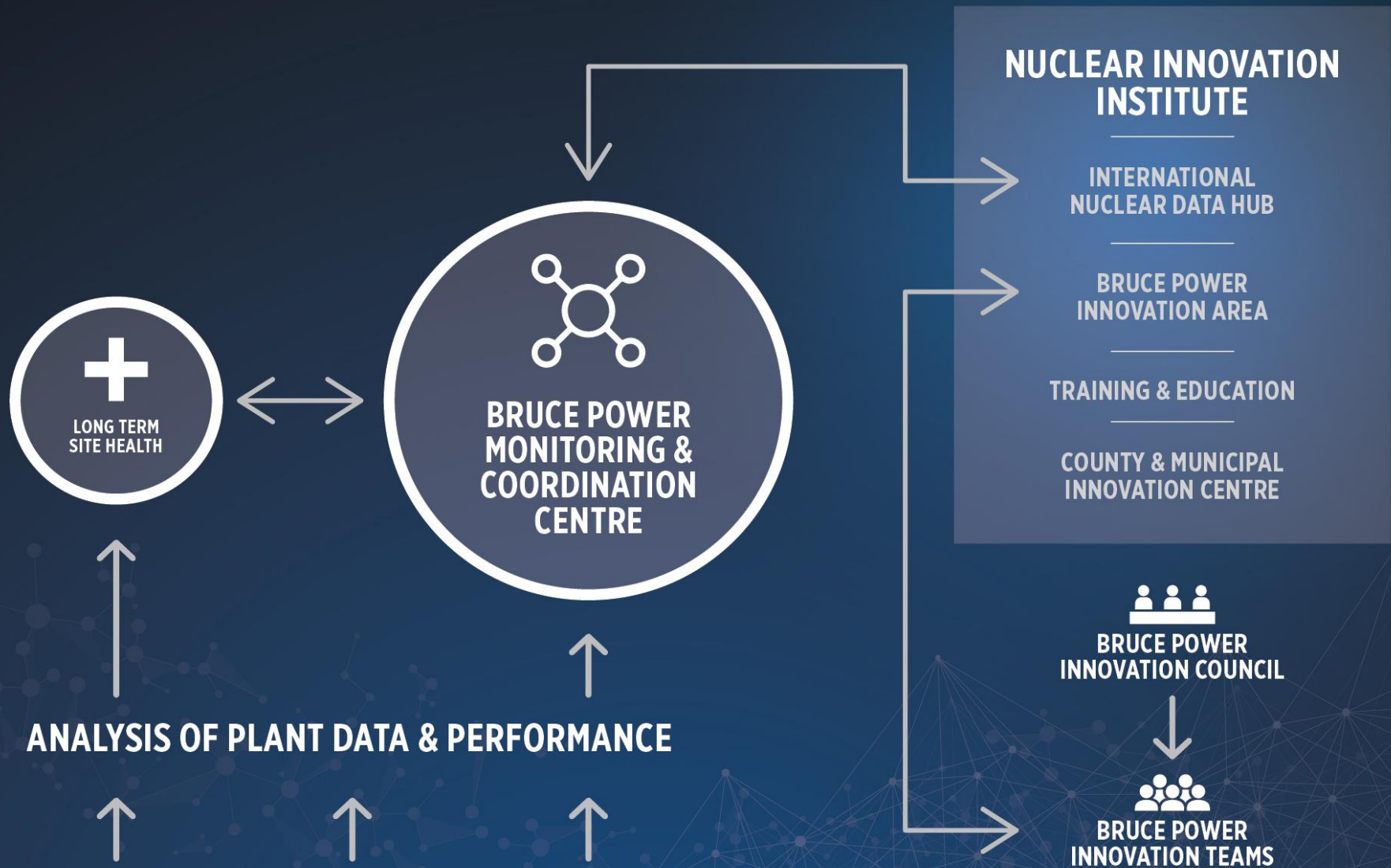


# Environment & Global Warming





# Operational Excellence



# Economic Development: Advancing Bruce County's Innovation Agenda



**BrucePower™**  
Innovation at work

- Project Innovate

TO BUILD A **DIVERSE  
COLLABORATION NETWORK**  
THAT ADVANCES BRUCE COUNTY  
AS A **GLOBAL LEADER &  
NATIONAL CENTRE IN ENERGY  
PRODUCTION, RESEARCH AND  
NEXT GENERATION  
TECHNOLOGIES**



ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT



# Economic Development: Project Innovate



**Bruce Power™**  
*Innovation at work*

**Bruce County presently faces three main challenges...**



Labour



Innovation



Collaboration

**...but has developed a list of key objectives to address them.**

- Grow, attract, and retain talent locally
- Increase economic diversity
- Anchor collaboration
- Improve infrastructure
- Shift cultural mindset
- Become environmental by design
- Obtain global recognition
- Emphasize research

**However, to reach these specific objectives, Bruce County must...**

**In the short-term: 0-6 Months**

- ✓ Establish Project Innovate Taskforce
- ✓ Develop a marketing and communication document
- ✓ Identify where and what government funding is available
- ✓ Identify academic institutions to target

**In the medium-term: 6-12 Months**

- ✓ Target specific enterprises
- ✓ Evaluate alternative industry opportunities

**In the long-term: 12+ Months**

- ✓ Establish a centre for collaboration, skill training facilities and programs
- ✓ Attracting top talent

**ECONOMIC DEVELOPMENT  
AND INNOVATION SUMMIT**





# Skilled Trades Secretariat



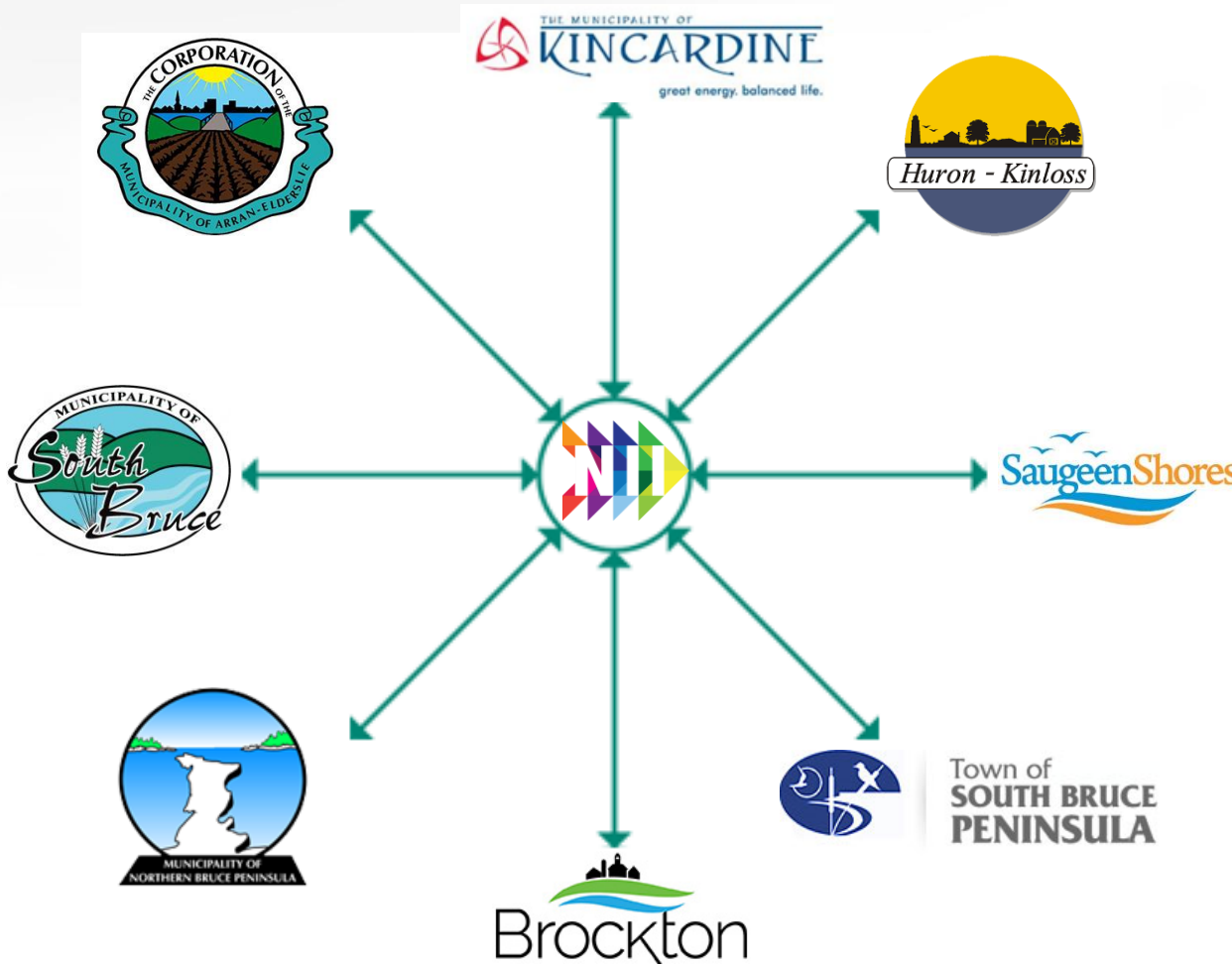
- A coordinating function to increase labour supply and training opportunities in the region. When established, the Secretariat will:
  - Be industry; action oriented to execute opportunities to increase local training opportunities (e.g. apprenticeships; local training facilities etc)
  - Develop an inventory of training facilities; programs; and regional assets to advance skilled trades training locally
  - Focus on Bruce Power demand and demand from other sectors / businesses in the region (for regional sustainability)
  - Work closely with school boards to raise awareness of opportunities in skilled trades; promote employment opportunities; and pathways to employment in the skilled trades.



# Benefits to Bruce



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## Regional Priority Alignment

### Increase Economic Diversity

Create a diverse economy that is sustainable over the long-term and can respond to challenges and opportunities

### Grow, Attract and Retain Talent Locally

Have an inclusive and robust talent pipeline - that attracts, develops & retains top talent in the region of Bruce County

### Improved Infrastructure

Ensure the regional infrastructure and lifestyle enables the goals with regards to public transportation, high-speed internet, education facilities and general standard of living

### Shift in Cultural Mindset

Foster an innovative and inclusive local mindset to support integration of community members and improve the standard of living in Bruce County

### Anchor Collaboration

Promote and enable diversity and collaboration between industry, government, & academia partners

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