Ontario’s Nuclear Innovation Institute

Overview

Bruce County Council
May 2nd 2019
Presented by: Frank Saunders, President, NII
A Changing Landscape

What is the NII? (video)
Our Stakeholders

Our focus is on building relationships and networks across multiple sectors and connecting partners in the process.

Some of our partners include:
• Strategic suppliers
• Local, regional and national governments
• Industry associations and organizations
• Indigenous communities
• Local school boards
• Post-secondary institutions
• Research organizations
Overview of NII: 3 Hubs

**Advanced Technology**
- Centre for Excellence in Operational Efficiencies
- Centre for Artificial Intelligence and Digital Technology
- Centre for Advancing Future Technologies
- Centre for Environment and Global Warming
- Centre for Health and Medical Isotopes

**Talent Development & Training Coordination**
- Trades and Skilled Workforce Secretariat
- Centre for Enhanced Education

**Business Development**
- Regional Economic Development Coordination
- Business Development & Advisory Services
- Centre for Indigenous Economic Development
- Business Incubation & Acceleration
Advanced Technology Hub

- Centre for Excellence in Operational Efficiencies
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Artificial Intelligence & Digital Technology
Health & Medical Isotopes

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

70,000 approximate number of Gamma Knife procedures each year

35 Million cancer patients treated with high specific activity (HSA) Cobalt-60 in the past 60 years

NUCLEAR INNOVATION INSTITUTE
Operational Excellence

NUCLEAR INNOVATION INSTITUTE

INTERNATIONAL NUCLEAR DATA HUB

BRUCE POWER INNOVATION AREA

TRAINING & EDUCATION

COUNTY & MUNICIPAL INNOVATION CENTRE

BRUCE POWER INNOVATION COUNCIL

BRUCE POWER INNOVATION TEAMS

LONG TERM SITE HEALTH

ANALYSIS OF PLANT DATA & PERFORMANCE

BRUCE POWER MONITORING & COORDINATION CENTRE
Health and Environment

- Ultra-Low Dose SNO
- Environmental Monitoring
- Health and Environment
- Radon and Actinides
- Fetal Programming
- Whitefish
- Aboriginal Health
- Low Dose Adaptive Respons
- Outreach – STEM Camps
Environment & Global Warming
Advancing Future Technologies
Establishing a Municipal Innovation Council

• Provide municipalities with access to world-class researchers and industry leaders to identify innovative, new solutions to public sector challenges

• Comprised of local government representatives who will meet and prioritize challenges they want to bring forward to the NII’s innovation teams

• Challenges brought forward might include:
  • creating more integrated systems for data collection and management of information;
  • providing more efficient services to ratepayers online;
  • providing more streamlined services across the region, and
  • more coordinated/collective information.

• NII will provide assistance and guidance in establishing the Council