

Nuclear in Kincardine



Larry Kraemer, Mayor

Municipality of Kincardine



- Population 12,800 prox
- Total area 252 sq. mi.
- Largest centre's Town of Kincardine and Village of Tiverton
- Major industries, Nuclear, Agriculture, Retail & Tourism

Town of Kincardine



Douglas Point



- Canada's First Full Scale Nuclear Power Station
- Generation one CANDU
- Built by AECL

The Douglas Point Nuclear Power Plant was the first reactor designed from the start as a large-scale CANDU system reactor. The Douglas Point Plant first entered full commercial operation in 1968 and continued to supply electrical power to the Ontario grid until it was retired in 1984.

Bruce Nuclear Power Development



Bruce 'A'

Bruce 'A' shutdown in very unpopular decision by Ontario Government mid 1990's

Bruce 'B'

- Built by Ontario Hydro and Atomic Energy of Canada Ltd.
- Currently owned by Ontario Power Generation
- Presently operated by Bruce Power



Save Bruce "A" 1998



'Retube Bruce A now' signs are all over Kincardine and area. From the left is Mike Palmer, Dave Walsh, Mayor Glenn Sutton, Ken Zurbrigg and Gord Thompson. (Fry photo)

- Local group begins campaign to fight decision to close Bruce A
- Largest protests in region's history against closure
- Major negative impact hits in local economy

Save Bruce A campaign

Western Waste Management Facility



Nuclear Waste Management & Interim Storage Facility

Bruce Nuclear Power Development Today



Long Term Management of Nuclear Fuel Waste Act (Bill C-27)

- Deep geological disposal
- Prolonged storage at nuclear reactor sites
- Centralized storage, either above ground or below.

Creates NWMO

Nuclear Waste Management Organization

(Note: Canadian Governments decide LLW & ILW is the responsibility of the Provinces)

Kincardine Context Beginning 3rd Millennium

- ▶ *Bruce Generating Station “A” Indefinite Shutdown*
- ▶ *Privatization of the Bruce Nuclear Power Development, Creation of Bruce Power*
- ▶ *Bruce Energy Centre nuclear steam initiative terminated*
- ▶ *Bill C-27 (NWMO) announced with existing sites named as potential permanent repositories*
- ▶ *LLW & ILW not addressed in legislation*
- ▶ *Environmental Assessments for reconditioning & new build started in Ontario by OPG and Bruce Power*
- ▶ *Douglas Point Reactor decommissioned 15+ years*

Community Perspective 2001

- Host communities have always understood that a permanent home elsewhere would be found for wastes.
- Port Hope example and Bill C-27 would seem to indicate this is not possible politically.
- Research also indicates that this is not possible unless some other jurisdiction is going to be forced to accept these wastes.
- Federal and Provincial governments have both said that no one will be forced to accept Nuclear Waste.
- Sierra Club is on the record as saying that “Any attempt to move nuclear waste from existing sites will result in the environmental battle of the millennium”.
- Benefits of Nuclear Energy accrue to all of society, However the risks are born only by a few municipalities.

CANHC Canadian Association of Nuclear Host Communities



Bruce 9 Reactors 8 operational
1 decommissioned



Pickering 8 Reactors 6 operational
2 decommissioned

CAHNC Represents all Nuclear Host Communities in Canada

CANHC Continued



- Darlington 4 operational reactors
- Becancour QC 1 operational Reactor
- Point Lepreau NB 1 operational reactor



Other CANHC Communities

Whiteshell Laboratories
Pinawa Manitoba



Port Hope Ontario



Chalk River Laboratories
Deep River Ontario



- Manufacturing Centre for fuel rods CANDU reactors

Kincardine Leading by Example

- Working with Industry to Develop Solutions
- Kincardine approaches OPG to explore options for permanent solution LLW&ILW 2001
- MOU Signed 2002
- International visits reported on television
- Community open houses
- Open council debate and decision
- Store front

Kincardine/OPG MOU Work Plan 2002

- Review technical feasibility of long-term management of L&ILW
- Do socio-economic impact assessment of potential long-term plans
- Review European and American models for long-term management of L&ILW
- Travel internationally to review technical infrastructure and community hosting agreements
- Speak to facility operators and community leaders for each site
- Report back to Kincardine residents

Study Trip 1, Europe



- Zwilag, Switzerland
- L'Centre de l'Aube, France
- Forsmark, Sweden

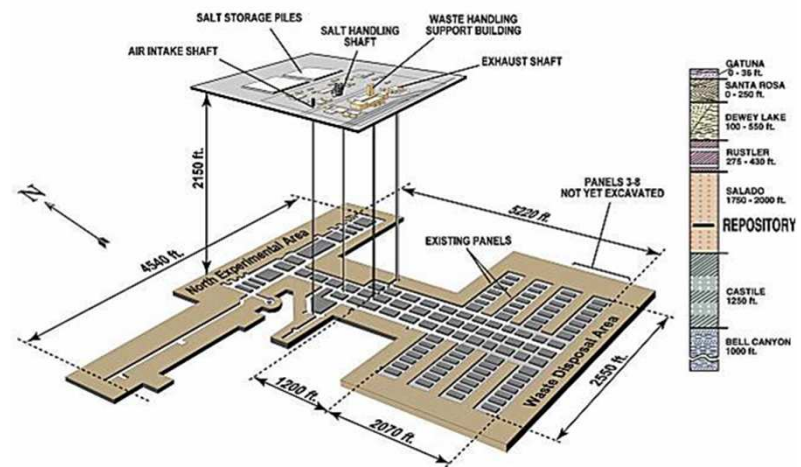
Study Trip 2, U.S.



- Barnwell South Carolina
- Carlsbad New Mexico



WIPP Facility and Stratigraphic Sequence



Study Trip 3, Spain

El Cabril



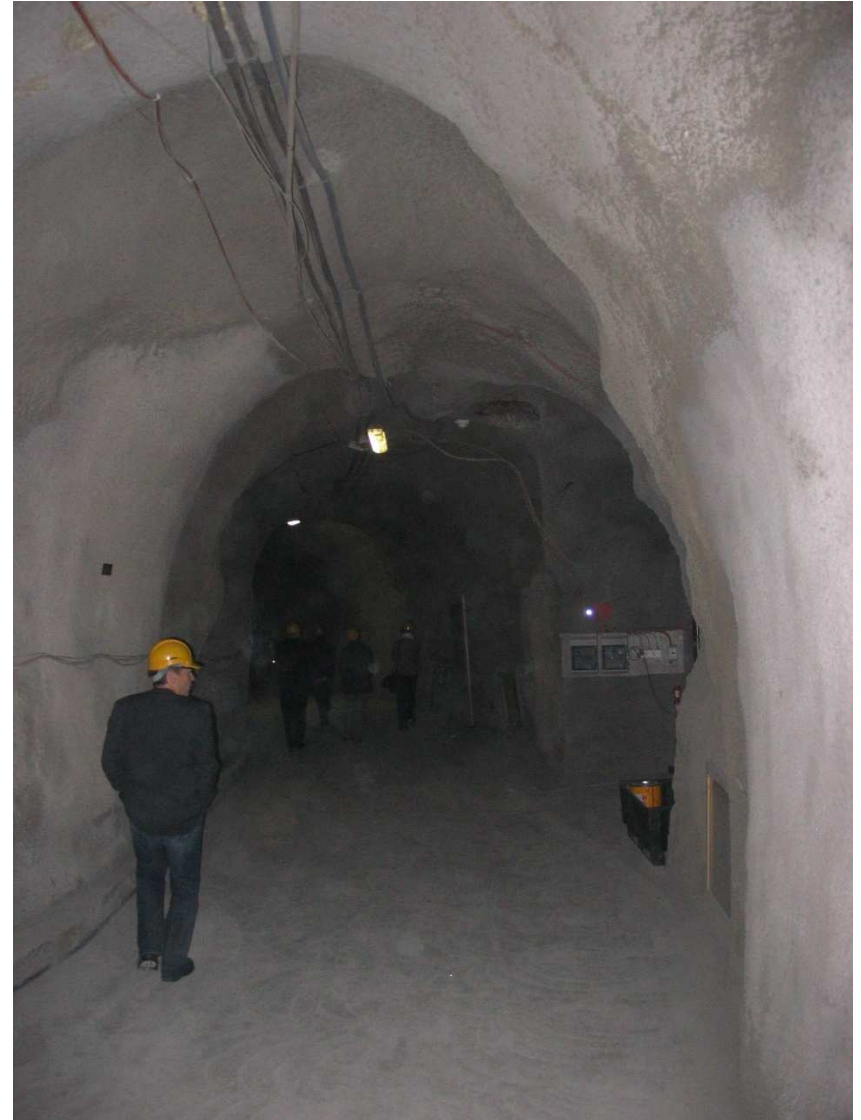
Vandellos



European Organizations

- **Group of European Municipalities with Nuclear Facilities (GMF)** 120+ Members Countries
Bulgaria, Czech Republic, France, Hungary, Lithuania,
Netherlands, Romania, Slovakia, Slovenia, Spain, Sweden
www.gmfeurope.org
- **Congress of German Municipalities with Nuclear Facilities**
- **Association of Municipalities in Nuclear Areas (AMAC)** www.amac.es/postnuke/html
- **United Kingdom (Newly Organizing)**

Sedimentary Rock Laboratory Mount Terri Switzerland



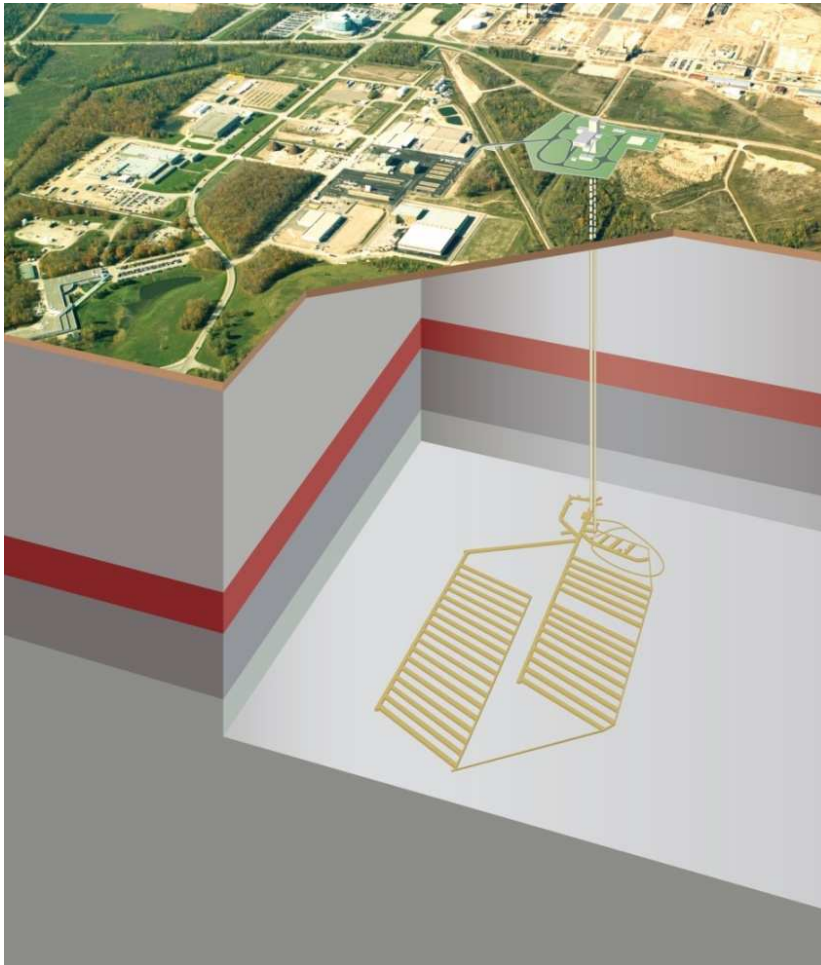
Main Street Store Front



Open Houses & Community Outreach



DGR Deep Geological Repository



- Visited best International examples available
- Asked their advice
- All said proceed
- 2004 Community Poll 71% in Favour
- DGR Hosting Agreement Signed October 2004

Citizens for Bruce “C” 2007



The screenshot shows the website for 'BUILD BRUCE C' with a navigation menu and a 'Community Support' section. The 'Community Support' section features a quote from Doug Storrey, a local business owner, and a horizontal bar chart titled 'Polling done by Ipsos-Reid following the announcement of new build'. The chart displays five categories with their respective support percentages: 'New build in the community' (81%), 'Good news for the community if new build proceeds' (84%), 'Good news for jobs and the local economy' (94%), 'Bruce Power gives back to the community' (82%), and 'Bruce Power is a good community citizen' (86%). To the right of the chart is a call to action for community support, and below it is a paragraph about mail-back cards and a final note about contacting the organization.

BUILD BRUCE C
www.CitizensForBruceC.com

Home Media Releases Online Petition Why Bruce County? Community Support About Us Contact Us

Community Support

Any nuclear project has its critics and we believe a community standing united saying, 'We want new nuclear in our backyard' is as strong as it gets.
Doug Storrey, Kincardine Business Owner

Polling done by Ipsos-Reid following the announcement of new build

Category	Percentage
New build in the community	81% Support
Good news for the community if new build proceeds	84% Agree
Good news for jobs and the local economy	94% Agree
Bruce Power gives back to the community	82% Agree
Bruce Power is a good community citizen	86% Agree

We need your support to show policy makers our community support for building Bruce C. Citizens for Bruce C recognizes the benefits associated with being a host community for nuclear power development and strongly supports new build on the Bruce Power site.

Throughout the course of this campaign we intend to demonstrate this further. Mail back cards have been distributed to our local communities and we are asking people to register their support for this campaign. All of the names we collect in support of this project will be used to develop our case for Bruce C, which we will submit to policy makers at the end of May.

Feel free to **contact us** if you would like to receive another mail-back card. Registering your support is important.

- **Results Ipsos Reid Poll**
- New build in the community 81% support
- Good news for community if new build proceeds 84% agree
- Good news for jobs and the local economy 94% agree
- Bruce Power gives back to the community 82% agree
- Bruce Power is a good community citizen 86% agree

All forms of Energy Generation are Controversial



Coal



Wind



Continued

Mississauga Gas Plant



Keystone Oil Pipeline



Summary

- Nuclear Power Generation has 40 year plus safety record in Canada
- OPG has safely managed nuclear waste for 40 plus years at the BNPD
- Nuclear Industry has made a major contribution to our region's economy
- Nuclear Power has strong support in Kincardine and other host communities
- Nuclear industry and host communities have regular and robust communication channels
- Permanent solution to waste issues are achievable
- Kincardine approach has lead to 20+ communities joining NWMO process to study desirability of hosting DGR for used nuclear fuel in their communities

Licensing hearings are expected to begin in fall 2013

Questions?

