The Nuclear Industry – How a Community benefits



Dr. Neil Alexander

President Organization of CANDU Industries



Nuclear does other things as well?



Nuclear Medicine

Smoke detectors





Preserving Foods



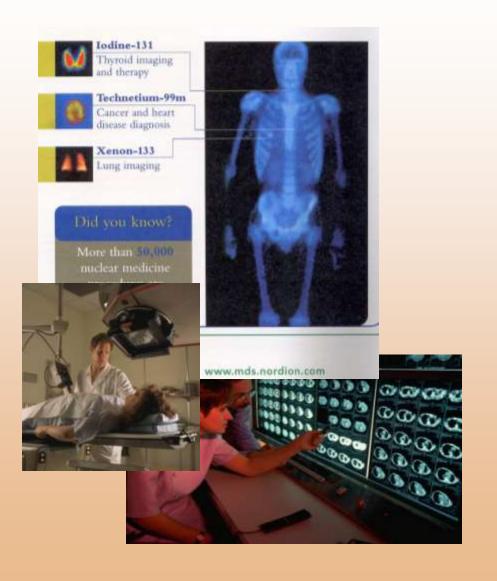
Emergency Lighting



Quality and Safety Inspections



A Canadian Gift to the World: Cancer Therapy and Nuclear Medicine

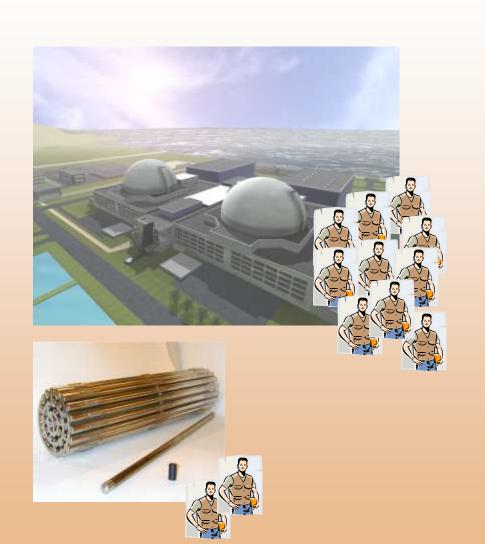


Every day, 76,000 diagnostic procedures are performed using AECL's supply of short-lived medical isotopes

cancer treatments are administered using Cobalt-60 from NRU (~33,000 treatments/day).



Where the jobs are



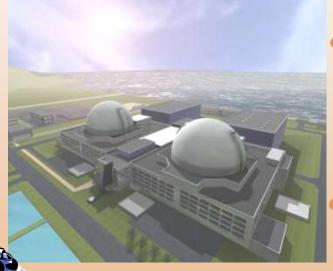


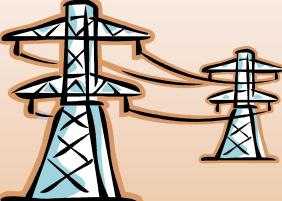


















Is it safe?



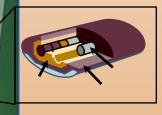


But what about all that used fuelhow horrible is that?

Up to 100 years in dry storage

10 years in a pool

 In almost four decades of operation no member of the public has ever been harmed as a result of a radiation emission from a Canadian nuclear power plant or waste storage facility.



Isolated from the biosphere in a deep geological repository



The battle for Ontario!





1944 CRL

1947 NR

How important is Canada?

Leader since 1940s

- Invented CANDU power reactor
- First sustained fission reaction outside of U.S.A
- Invented cancer therapy
- Largest exporter of medical isotopes & uranium

\$ 6 B / year industry

- 30,000 workers
- 150 companies

22 CANDUs in Canada

- 51% nuclear in Ontario Province
- 16% of Canada's total electricity

1957 NRU
1958 NPD started construction
1962 NPD
1965 Douglas Point

Export: 1965 Kannup first concr. 1966 Rajsthan first concr.



Export: 1974, Embalse 1977, Wolsong 1



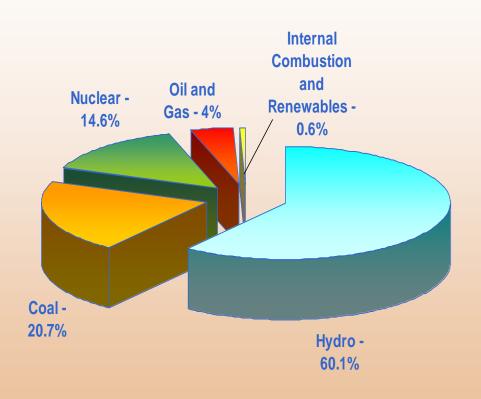
Export: 1990/91, W2/3/4 1998, Qinshan 3



Export: 1982, Cernavoda 1



Electricity Sources in Canada (2007)





Source: National Resources Canada (NRCan), 2008

50%



Don't Believe me?



Suez wants slice of UK nuclear

The Calgary Herald

Italy to build 8-10 nuclear reacts

Page: H9 Section: Calgary Business Column: World in Brief Source: Compiled from Herald News Services

Italy may start work by 2013 to by many as 10 nuclear reactors over decades, Industry Minister C Thursday.

Agence France Presse Finglish

Miami Herald

Dunnville Chronicle (ON)

Nanticoke Nuclear plant updates mailed out:

Recipieury of a Scientistia unclear pleas system

Permission sought to build nuclear plant in Finland

Finnish utility Fortum Corp. on Thursday said it has applied for permission to build the country's sixth Helsinki.

aick off inland nuclear power pro-

China eyes massive hike in atomic energy larget, state media onstruction of an 8.7 billion dollar nuclear power plant in eastern China is set to begin soon, as part of ambitious plans for more atomic energy in the nation's interior, state press said Thursday.

© 2008 AFP

Child be to Suntries are opting for ga. there is concern about 'n-supplied fuel after Mos Poland Wa. Britain decided last year to replace its ageing Jkraine last month. nuclear reactors and create new sites. France he Ordered its 61st nucleare new sites. France in the internal intern building the largest reactor in the world, which is expected to open in 2011.

The New York Times

Sweden Takes Another Look at Nuclear Power

Fri 06 Feb 2009

Section: Business/Financial Byline: JAMES KANTER.

The Swedish government on Thursday proposed refreshing its nuclear reactors, making the nation the latest to consider letting the technology play a major role in its energy plans.

Echavarri said

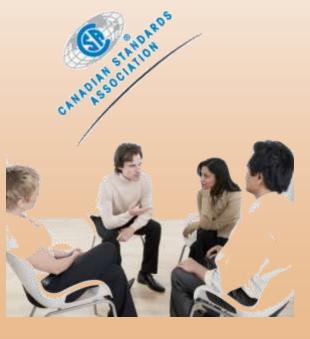
Sweden alread electricity fron



The Nuclear Difference









The Nuclear Difference!

Regular Manufacturing



Nuclear Manufacturing





All sorts of companies can join in





Organization of CANDU Industries L'Association des industries CANDU