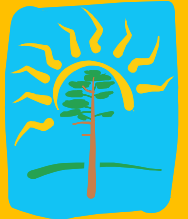


The Pickering Nuclear Station

Presentation by Jack
Gibbons, Ontario Clean Air
Alliance to Pickering City
Council, April 10, 2018



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Too close for comfort

Why we need to close Canada's oldest nuclear station



Nuclear in the wrong place



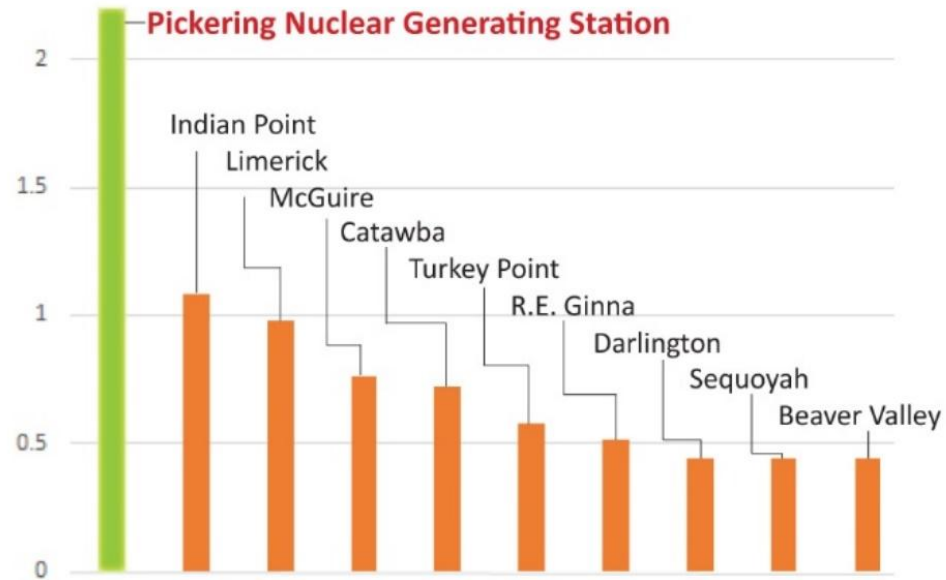
2.2 million people live within 30 kilometres of the Pickering Nuclear Station



Nuclear in the wrong place



10 North American nuclear plants with the highest surrounding populations
(in millions within 30 km.)



The Pickering Nuclear Station is surrounded by more people than any other nuclear plant in North America



Pickering Nuclear: Too Close for Comfort



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Old



Pickering is the 4th oldest nuclear station in North America

1. Oyster Creek – Ocean County, New Jersey – 1969
2. Ginna – Wayne County, New York – 1970
3. Point Beach – Two Rivers, Wisconsin – 1970
- 4. Pickering – Pickering, Ontario – 1971**
5. B. Robinson – Hartsville, South Carolina – 1971
6. Palisades – Covert, Michigan – 1971
7. Montecello – Montecello, Minnesota – 1971
8. Pilgrim – Plymouth, Massachusetts – 1972
9. Surry – Surry County, Virginia – 1972
10. Turkey Point – Homestead, Florida - 1972



Pickering is the 5th largest nuclear station in North America



- Bruce (Bruce County, Ontario): 6,232 MW
- Palo Verde (Phoenix, Arizona): 4,212 MW
- Darlington (Clarington, Ontario): 3,512 MW
- Browns Ferry (Athens, Alabama): 3,300 MW
- **Pickering (Pickering, Ontario): 3,094 MW**
- South Texas (Bay City, Texas): 2,560 MW
- Oconee (Seneca, South Carolina): 2,538 MW
- Susquehanna (Berwick, Pennsylvania): 2,429 MW
- Comanche Peak (Glen Rose, Texas): 2,367 MW
- Salem (Lower Alloways Creek, New Jersey): 2,332 MW



What would happen if a Fukushima-scale accident happened here?



A Fukushima-Level Nuclear Disaster at Pickering: An Assessment of Effects



Pickering Nuclear: Too Close for Comfort



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Independent Expert



Dr. Ian Fairlie

- Radiation Biologist
- PhD from Imperial College of Science, Technology and Medicine, London, U.K.



Assessing impacts

Key Assumptions:

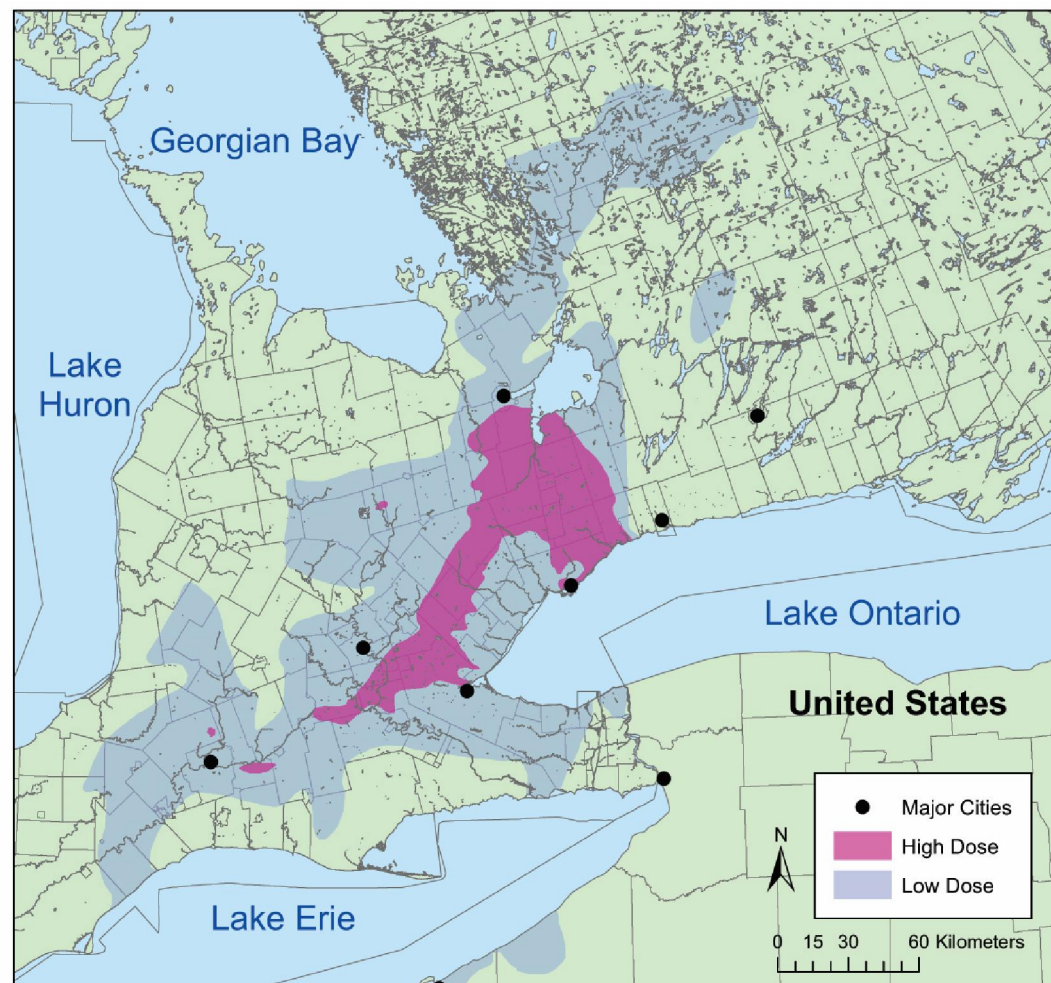
- Similar amounts of radioactivity released
- Similar fallout distribution pattern



Radioactivity impacts



Low dose and
high dose
fallout areas

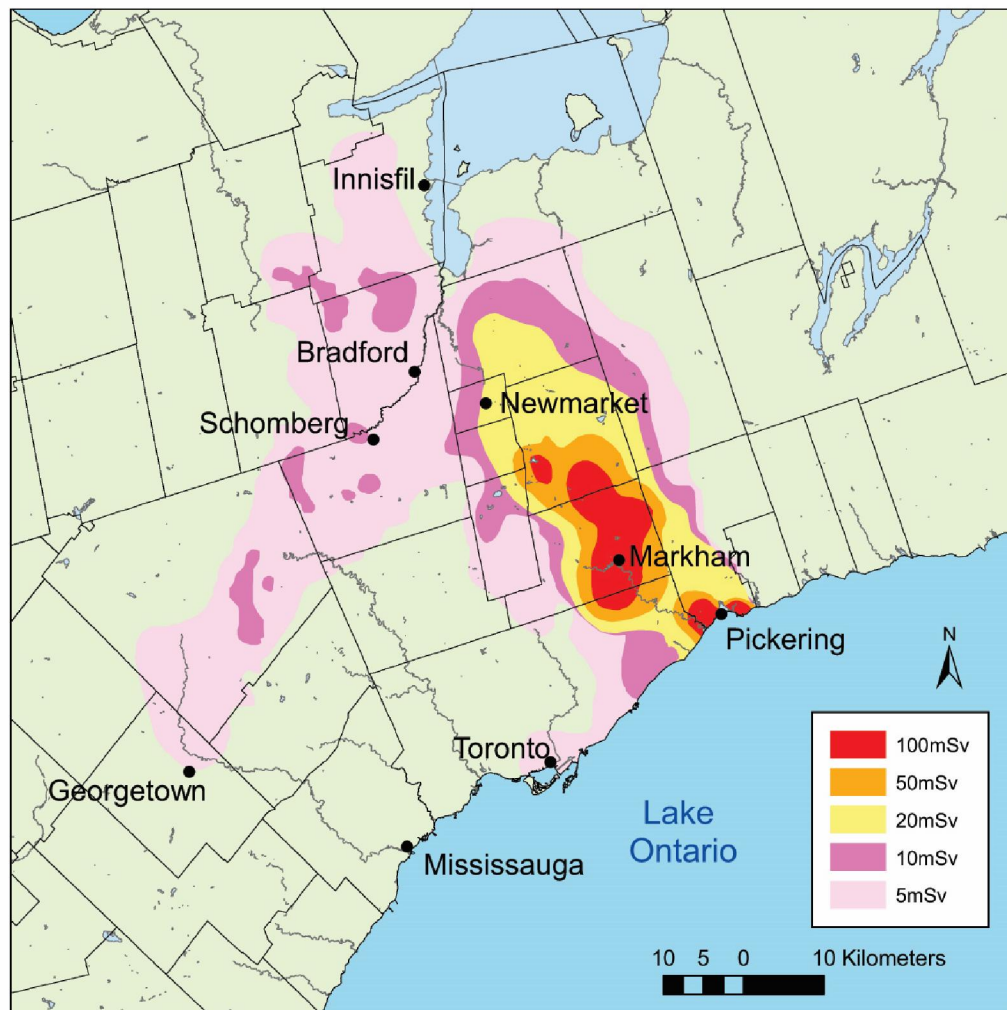


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Radioactivity impacts



High dose
fallout areas



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Health impacts



26,000 cancers, of which
13,000 are fatal

- Thyroid cancers not estimated
- Heart disease and strokes not estimated



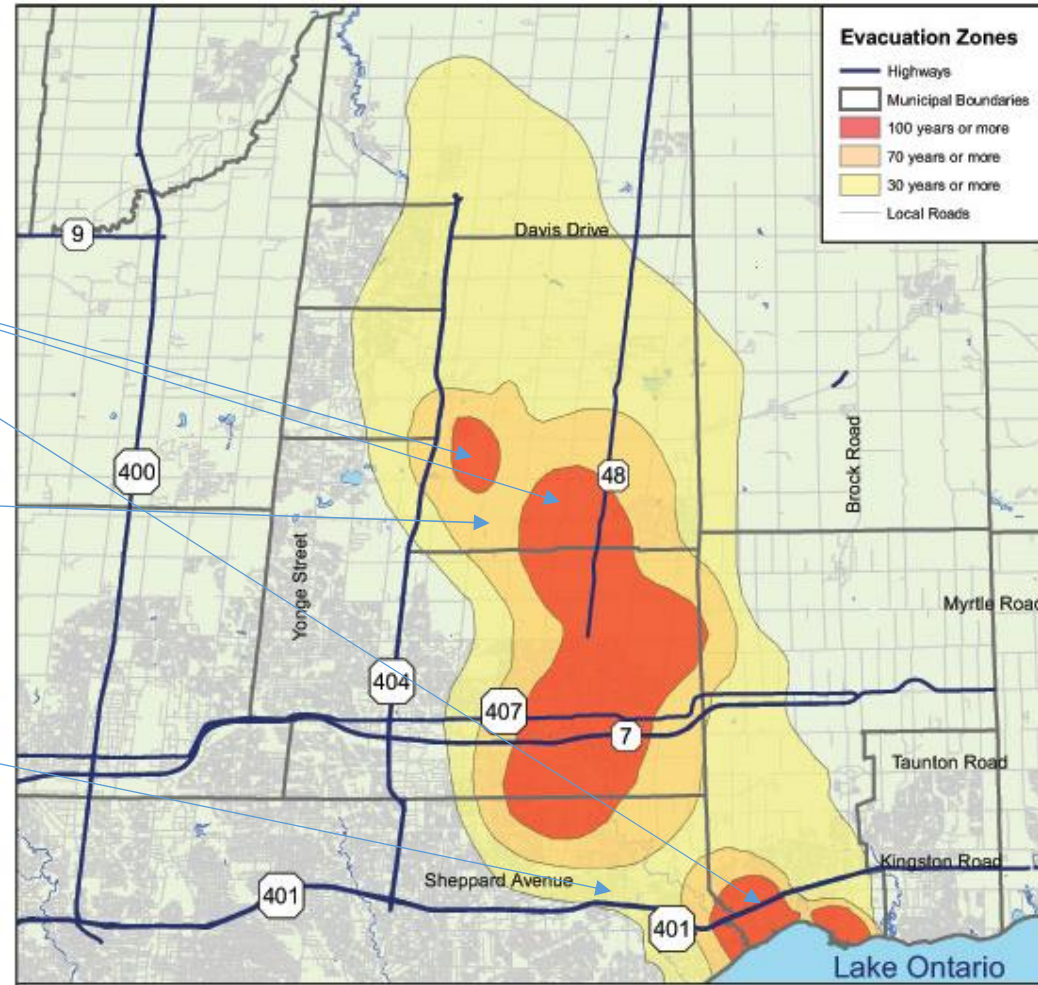
Evacuation zones



100 years +

70 years +

30 years +



Pickering Nuclear: Too Close for Comfort

Evacuation zones

- 653,000 people affected
- 154,000 single family residences
- All of City of Pickering evacuated for 100 years
- Highways 401, 404 and 407 are in evacuation zone
- CN/CP/GO Rail line in evacuation zone



Evacuation zones

- Lost Housing Value \$125 billion
- OPG's Liability is capped at \$1 billion by *Nuclear Liability and Compensation Act*
- Your home insurance policy does not cover you for a nuclear accident



Evacuation zones

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- OPG's Liability is capped at \$1 billion by *Nuclear Liability and Compensation Act*
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Shutting down Pickering



- Pickering's operating licence expires on August 31, 2018
- OPG is seeking 10-year licence extension



The better option



- Close Pickering on August 31, 2018
- Import Quebec water power to keep lights on and lower our electricity rates
- Immediately dismantle and decommission Pickering to create 32,000 person-years of employment
- Revitalize Pickering waterfront



The better option

Which would
you rather
come home to?

A 50-year-old nuclear station

or

a revitalized waterfront?



ClosePickeringNuclear.ca

A message from the Ontario Clean Air Alliance



Pickering Nuclear: Too Close for Comfort



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Speak out!



Ask candidates in the provincial election if they support closing this old and outdated nuclear plant.

Sign our petition at:
CleanAirAlliance.org/Close-Pickering



Pickering Nuclear: Too Close for Comfort



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