

Radon Reduction in Canada



Building Momentum through Collaboration

APRIL 2019





National Radon Program – a Decade in Review Look How Far We've Come!





2008-2010 - PROGRAM DEVELOPMENT

Developed outreach materials and public outreach programs



- Started characterizing the extent of the radon problem in Canada – research, cross-Canada and Federal Building testing
- Started engaging key stakeholders
- Increased availability of testing resources and supported changes to NBC

2011-2013 - COLLABORATION - DEPTH & BREADTH

- Institutionalized good radon practices in Canadian industry

 CARST, C-NRPP and expanded research
- Built on the strong base expanded and strengthened partnerships, refined risk messaging, developed targeted outreach programs and establishing RAM
- Program review and evaluation internal and POR









National Radon Program – a Decade in Review

2014-2017 – WATERSHED ADVANCEMENT and EVALUATION

- CBC special report in June 2014 National media exposure = HUGE increase in public interest
- Mike Holmes and Mike Holmes Jr as a spokesperson and Champion
- Growth of the TAoR Network and RAM regional and provincial committees and leaders
- Significant increase in provincial/territorial/municipal and community engagement and action







AMAZING PROGRESS THANKS TO THE INCREDIBLE STAKEHOLDER INVOLVEMENT AND ACTION!!

2018 and Beyond

- Focus on behaviour change motivating / influencing testing and mitigation rates across Canada.
- Targeted efforts for at risk regions and populations





PARTNERS



Radiation Safety Institute of Canada Institut de radioprotection du Canada

CFIFBRATING 35 YEARS



et Services sociaux



















MÉDICALE

CANADIENNE





























Santé Canada











Canadian Société Cancer Society

canadienne du cancer







CHILD CARE FEDERATION FÉDÉRATION CANADIENNE DES SERVICES DE GARDE

















Targeted Projects and Programs







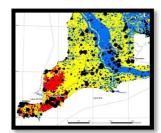




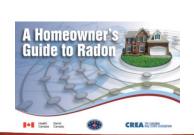




Canada



Radon Spatial Analysis and Data Sharing







Provincial / Territorial / Municipal Progress



Radon mitigation warranty











Radon Burden of illness study

The Ontario Public Health Standards: Requirements for Programs, Services, and Accountability are published as the public health standards for the provision of mandatory health programs and services by the Minister of Health and Long-Term Care, pursuant to Section 7 of the Health Protection and Promotion Act.

Standards: Requirements for

Programs, Services, and

Accountability



Potential for Radon in Indoor Air Map



Ontario

THE LEGISLATIVE ASSEMBLY OF ALBERTA



BILL 209

RADON AWARENESS AND TESTING ACT



Training and engagement



Radon Outreach and Education in

Canada



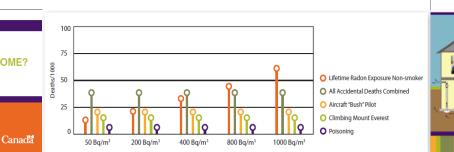


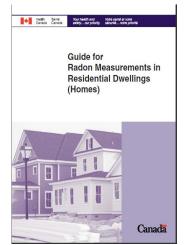
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RADON: IS IT IN YOUR HOME?

HC Outreach Efforts	2008-2018		
Outreach materials distributed	>8,200,000		
Web page views	>1,400,000		
Public inquiries	10,000		
Outreach events	> 1100		
Media exposure	>6000		











RADON
REDUCTION GUIDE FOR CANADIANS

Increased awareness is not directly translating into action

Look how much further we have to go!

2017 Statistics Canada Household and		2009	2011	2013	2015	2017
Environmental Survey results		Percent				
Canada	Households that had heard of radon	42	40	45	55	49
	Gave correct description of radon	30	37	53	59	63
	Said radon is a health hazard	68	73	74	76	77
	Had tested for radon	3	5	5	6	7
British Columbia	Households that had heard of radon	41	46	42	55	52
	Gave correct description of radon	28	32	52	52	56
	Said radon is a health hazard	66	70	67	77	77
	Had tested for radon	F	3	4	6	8
Halifax, Nova Scotia	Households that had heard of radon			68	65	74
	Gave correct description of radon			54	68	65
	Said radon is a health hazard			72	87	91
	Had tested for radon			F	18	22
Calgary,	Households that had heard of radon		:	41	66	62
	Gave correct description of radon			59	52	68
Alberta	Said radon is a health hazard			73	71	74
	Had tested for radon			F	F	10

The National Radon Program Mitigation Actions Follow-up Study (2016) found that only 29% of Canadians are taking action to reduce high radon levels in their homes

Building Behaviour Change MomentumIncreasing testing and mitigation rates

Take the decision to Take Action out of people's hands

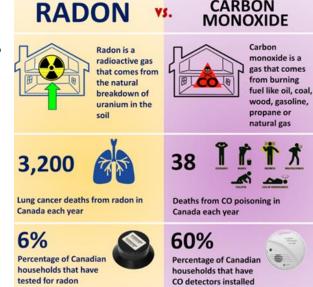
- Integrate testing and mitigation into legislation and standards – ex. Passive stack included in all Building codes
- Mandatory testing

Make the threat more "real"

- Target efforts towards at risk regions and populations.
- Evidenced-based risk = Provinces, Territories and Municipalities more likely to change the way they think about radon risks
- Deliver more and bolder messaging and campaigns

Make Taking Action less Scary and Easier

- Correct misconceptions and make costs easier to bear
- Make more free/ subsidized testing available





2018 POLICY SCAN REGULATORY AND ENFORCEMENT LANDSCAPE

- It is recognized that Health Canada has provided important leadership in addressing radon risks under the National Radon Program BUT
 - Compliance with the federal Radon Guideline is voluntary no requirements exist for mandatory action (for testing, disclosure of test results, or remediation).
 - There is divided and overlapping jurisdiction on radon in law and policy across Canada
 - Very little radon protection is encoded in law, it is generally captured by provincial/territorial building codes and, at the federal level, in the Canada Labour Code.
 - Inconsistent approaches and engagement across Canada at the PT and Municipal level – different levels of government not always working well together







2018 RADON POLICY SCAN

Canada vs European Union

National Radon Program

- Guidance/Advice
- Research and Surveys
- Training and Education

Federal government cannot similarly <u>require</u> P/T action

EU Basic Safety Standards Directive

- Requirements of member states to:
 - Set guideline
 - Education and outreach
 - Radon Action Plans targeting at-risk
 - Systems of inspection and enforcement

RECOMMENDATION

A BOLDER and more COHESIVE Approach

- Encouraging and enabling a more comprehensive and coordinated pan-Canadian radon strategy
- Expand current focus on research, education/outreach
- Provide increased direction/advice/toolkits (add federal tax credit/grants)
- Federal and PT Radon Action Plans to capture multiple areas of P/T jurisdiction

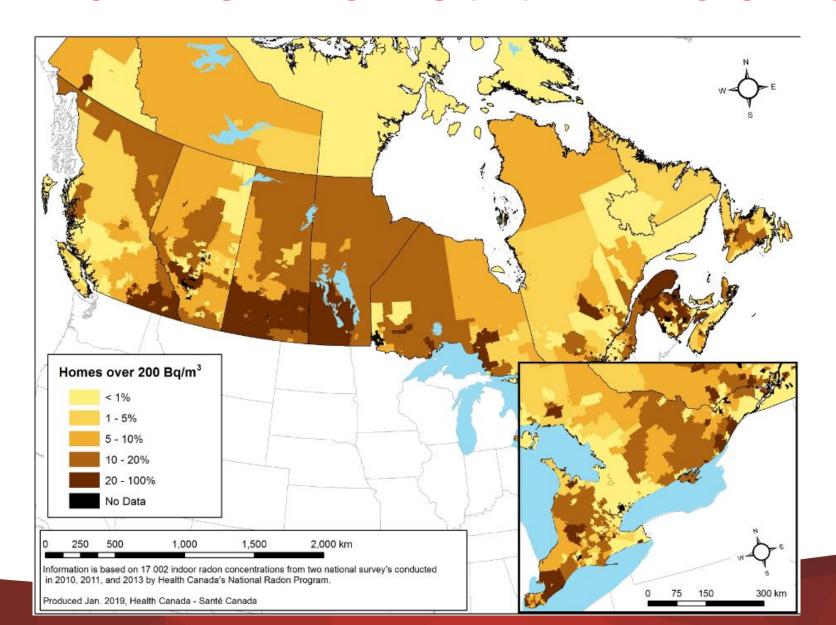
NRP RADON REDUCTION PRIORITIES

- Updating Building codes to reduce radon in new construction ex. inclusion of passive stack
- Radon mapping and spatial analysis to better define at risk regions and populations across Canada
- Radon Health Economic Analysis Looking practical radon interventions – measured in 'quality adjusted life years' (qualys)
- Updating the Federal Radon Action Plan engaging other relevant departments more formally
- Creating Radon Action Plan Toolkits -A 'turn-key' resource that PTs and Municipalities can use to develop customized Radon Action Plans
- Radon Behaviour Change research pilot working with a Behavioural Scientist





TARGETING EFFORTS and FILLING GAPS



WHAT SEEMS TO BE WORKING TO CHANGE BEHAVIOUR IN CANADA



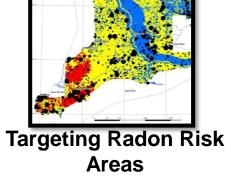
Standards, community engagement



Testing programs



Library test kits





Building codes



Thank You

