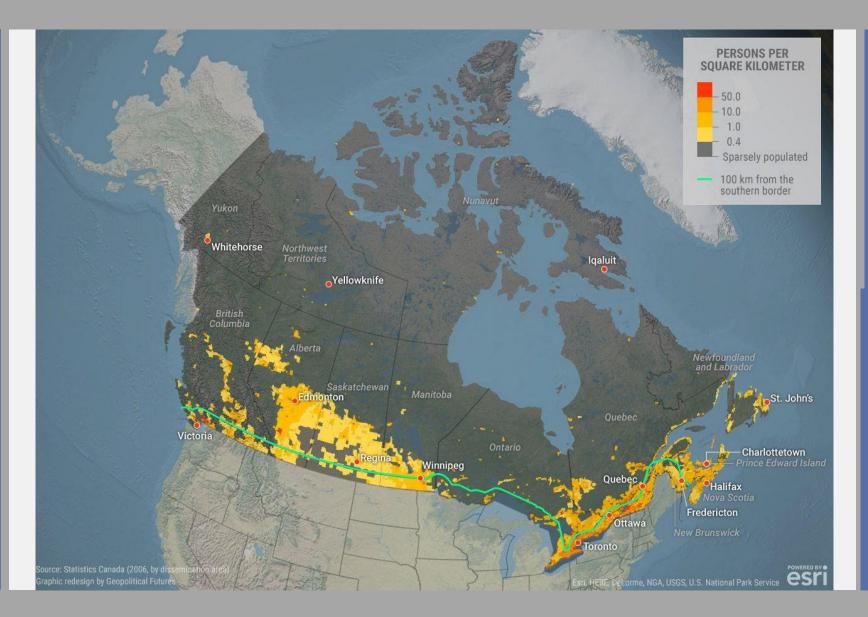


Canadian Radon Experience with Collaboration

9th ERA Workshop - International Collaborations on Radon – **Fribourg (Switzerland)**







Large Land Mass

Canada is 240 times the size of Switzerland

Sparsely populated areas with large remote areas

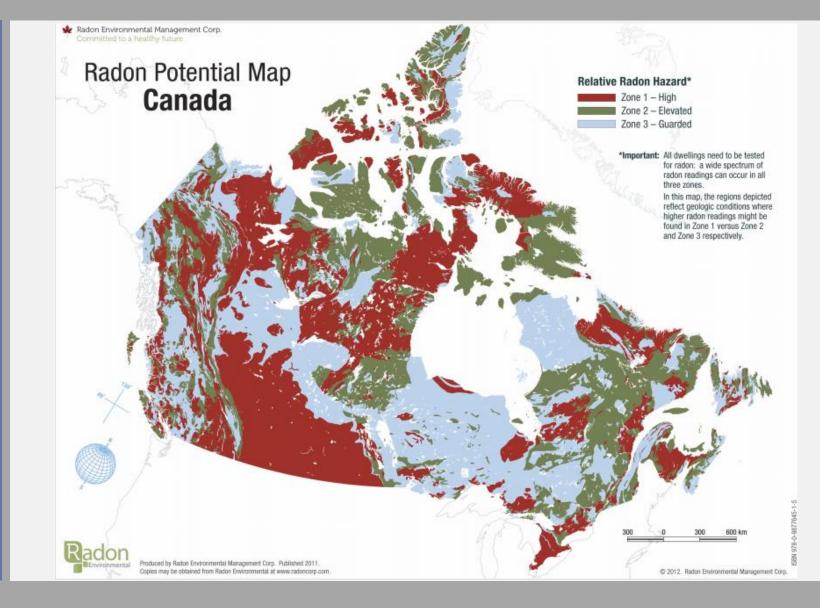
Canada vs Switzerland 37.7 million vs 8.4 million

9th ERA Workshop - International Collaborations on Radon - Fribourg (Switzerland)





 Broad range of geographical and Physical conditions





Radon from our perspective

Geological Radon Potential

Temperatures range from 40C to -40C



We heat our homes in winter.



We cool our homes in summer.





Canada 101:

We have an EXTREME CLIMATE





Our thoughts for looking for collaborators:

- Who is a trusted voice
- Who is a factual voice
- Where is an opportunity

Collaboration – A Canadian Success Story



- Represents, supports and assists radon professionals
- Provides outreach and awareness to all Canadians
- A certification program that establishes guidelines, standards of excellence and best practices
- Created National Radon Program and Survey
- Developed guidance on measurement and mitigation
- Established the C-NRPP
- Provides funding to C-NRPP
- Maintains communication and provides input on direction





Building a strong Foundation

Collaboration

REPORT OF THE RADON WORKING GROUP ON A NEW RADON GUIDELINE FOR CANADA

REV. 03-10-2006

Submitted to the
FEDERAL PROVINCIAL TERRITORIAL
RADIATION PROTECTION COMMITTEE

2006 Report on Radon

- Developed recommendations for reducing radon levels in Canadians homes
- Recognized the importance of building codes to reduce or control radon within new construction
- Recommended a National Radon Action program prioritizing testing in homes, schools and hospitals, and also recommended testing in workplaces





Radon from our perspective

Recent History with Radon





Building a strong Foundation

Collaboration



National Stakeholder Program funded by Health Canada

Recruit, motivate, engage and bring together stakeholders to increase radon awareness

Motivate Canadians to take action to reduce radon and to promote radon action month.

Collaboration - A Canadian Success Story

Government Organizations (Federal, Provincial/Territorial and Municipal)























Health-based Organizations











Other Industry Associations







Not-for-Profit Organizations











Private Sector Companies

Radon Guidelines and Standards







Best Practices









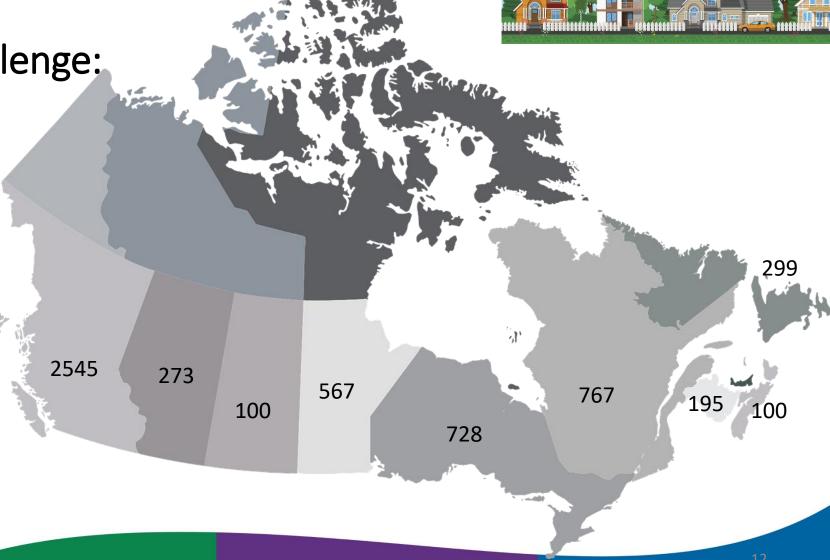
100 Radon Test Kit Challenge:

Impact to date

3 years

40 communities

Over 5 500 kits distributed



30 communities for fall of 2021.

100 Radon Test Kit Challenge

TACKLE RADON TEAM ROSTER









CALVIN MCCARTY

Calgary Football Team & Grey Cup Champion

TREVOR HARRIS

Quarterback for the Edmonton Elks & Grey Cup Champion

ANDREW GREENE

Saskatchewan Roughriders Alumnus, 4 year CFL All-Star ADAM BIGHILL

Winnipeg Blue Bomber & Grey Cup Champion

ORDER A TEST KIT

ORDER A TEST KIT

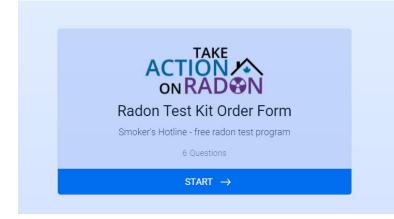
ORDER A TEST KIT

ORDER A TEST KIT





Canadian Cancer Society: Smoker's Helpline and Cancer Information Line



Take Action on Radon has:

Presented a webinar to CCS's SHL and CIL on the risks of radon exposure, specifically when coupled with smoking... Developed resources for both team to use with clients and partners in order to answer questions on radon and provided the necessary information about testing for radon, reducing exposure, and spreading awareness.

REDUCE YOUR CHANCES OF A LUNG CANCER DIAGNOSIS

Lung cancer is the most commonly diagnosed cancer in Canada. It is the leading cause of death from cancer for both men and women in Canada. ¹

Smokers have the highest risk of getting lung cancer and radon increases that risk. There are other factors that also increase lung cancer risk such as outdoor air pollution physical inactivity and poor nutrition, specifically with a lack of fruit and vegetable consumption. While you should consider improving all these risk factors, the combination of radon and smoking is particularly dangerous.



RADON + SMOKING = DANGEROUS COMBINATION

QUIT OR REDUCE TOBACCO Tobacco use is the #1 preventable risk factor in getting lung cancer



TEST AND REDUCE RADON After tobacco, radon is the leading cause of lung cancer.

STEPS TO QUIT SMOKING

- Make a <u>quit plan</u>
- Get guidance from a Quit Coach:

 J Call 1-866-366-3667
- Chat go to smokershelpline.ca
- 1 Investigate Ouit aids with a health professional
- Select a quit date
- (a) Inform family and friends
- Think about situations that you connect with smoking such as drinking coffee, driving, or having alcohol and Come up with temporary alternatives such as replacing coffee.

STEPS TO TAKE ACTION ON RADON:

- ____
- 1 TEST for Radon
- (Guideline is 200 Bg/m²)
- necessary actions
 and timeline
- 4 REDUCE find a mitigation professional
- SPREAD RADON AWARENESS Tell Other To learn more go to takeactionantadan.ca







Take Action on Radon is offering FREE radon tests for any client who calls the Smoker's Helpline or Cancer Information Line.









White Ribbon Campaign



Free tests for Lung Cancer Patients and Families

- Piloted project with BC Cancer Agency
- Also working with Canadian Cancer Society's Cancer Information and Prevention Specialists
- Includes a CARE PACKAGE











When pitching to work with a collaborator:

- What motivates them
- What are their strengths
- What supports/tools are needed to work together





RESOURCES:

TESTED FOR

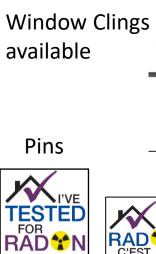
RADON

MESURÉ

www.OccupeToiDuRadon.ca











Postcard (French on reverse)



We also have playing cards available for purchase.

Order online:

https://form.jotform.com/91975565858277











Multiple Languages

Bookmarks and postcards in Tagalog, Punjabi, Italian and Chinese!

We are also working with some communities to translate into some First Nation Languages.



















Free Downloadable Resources:

Radon photos now available on pixabay.com



POPULAR

LATEST

ABOUT ME

























Radon Reduction Sweepstakes – 2021/2022

2 prizes of \$500 per region (8 regions across Canada)

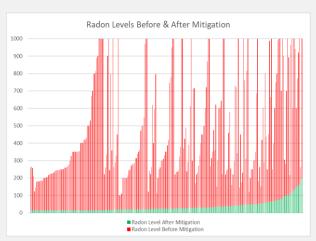
Anyone who has reduced their radon using a C-NPRP professional can apply.

Winners from the 2020/2021 will be announced in October.

https://takeactiononradon.ca/radon-reduction-sweepstakes/

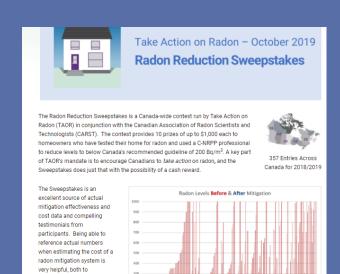


			Average Post	
	# of	Highest Radon	Mitigation	Average % of
Region	Entries	Level	Radon Level	Reduction
BC and Yukon	26	1800	49	92.0
Alberta and NWT	165	2281	26	91.0
MB/SK	94	<i>3700</i>	42	91.3
ON	24	1500	<i>57</i>	90.4
QC	25	1200	29	91.9
Atlantic & Nunavut	23	1765	<i>39</i>	91.5
	357	3700	35	91.2



Data from CARST Radon Sweepstakes mitigation program





makers. The data comparing the pre- and post- mitigation radon levels in homes

Table 2: Average Costs 2018-2019

Region	# of Entries	Ave	erage Cost	ı	lighest Cost	ı	owest Cost	# of Different Mitigation Professionals
BC and Yukon	26	\$	2,663.93	\$	4,128.98	\$	1,381.80	4
Alberta and NWT	165	\$	2,574.55	\$	6,720.00	\$	630.00	8
Manitoba/Saskatchewan	94	\$	3,072.10	\$	4,107.00	\$	1,400.07	9
ON	24	\$	3,166.19	\$	9,098.76	\$	1,412.50	<i>3</i>
QC	25	\$	2,579.68	\$	3,766.07	\$	1,695.88	4
Atlantic and Nunavut	23	\$	2,988.12	\$	5,175.00	\$	1,495.00	4
	357	\$	2,794.64	\$	9,098.76	\$	630.00	

Data from CARST Radon Sweepstakes mitigation program







Take Action on Radon – October 2019 Radon Reduction Sweepstakes

The Radon Reduction Sweepstakes is a Canada-wide contest run by Take Action on Radon (TAOR) in conjunction with the Canadian Association of Radon Scientists and Technologists (CARST). The contest provides 10 prizes of up to \$1,000 each to homeowners who have tested their home for radon and used a C-NRPP professional to reduce levels to below Canadá's recommended guideline of 200 Bq/m³. A key part of TAOR's mandate is to encourage Canadians to take action on radon, and the Sweepstakes does just that with the possibility of a cash reward.



357 Entries Across

The Sweepstakes is an excellent source of actual mitigation effectiveness and cost data and compelling testimonials from participants. Being able to reference actual numbers when estimating the cost of a radon mitigation system is very helpful, both to homeowners and to policymakers. The data comparing the pre- and post- mitigation radon levels in homes mitigated by certified





Thank you....Questions?

Pam Warkentin,

CARST/C-NRPP

p_warkentin@carst.ca





Driving forces...

How do we protect Canadians? - Workplaces

Method:

- Legislation (limited)... Canadian Labour Code
- Reduce liability/Risk averse companies
- Strong health and safety policy/culture
- Strong union presence
- BOMA Best and LEEDS certification points





Building a strong Foundation – Measurement in Workplaces



Driving forces...

How do we protect Canadians? - Workplaces

Challenges:

- Lack of awareness
- Cost
- Deciding how to prioritize a large number of buildings
- Cooperation with employees, access to spaces or disappearing detectors





Building a strong Foundation – Measurement in Workplaces







Building a strong Foundation – Measurement in Homes



Driving forces...Why do Canadians care about radon? - **HOMES**

Motivations:

- Personal health
- Protect ones they love (Grandkids, children, pets)





Building a strong Foundation – Measurement in Homes



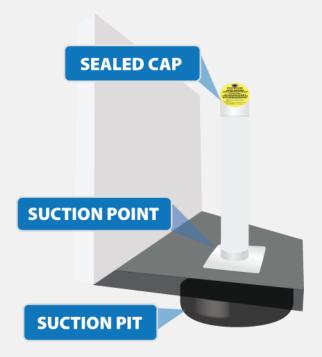
Driving forces...Why do Canadians care about radon? - **HOMES**

Challenges:

- Lack of awareness
- Indifference
- Cost
- "If I have a high level then I'll have to fix it"

The National Building Code addresses radon

- Gravel under the slab
- Sealed sump pit
- Well-sealed liner
- Radon rough-in for future installation







New Construction