Climate Change, Extreme Weather and the Need to Adapt NOW



PNWER

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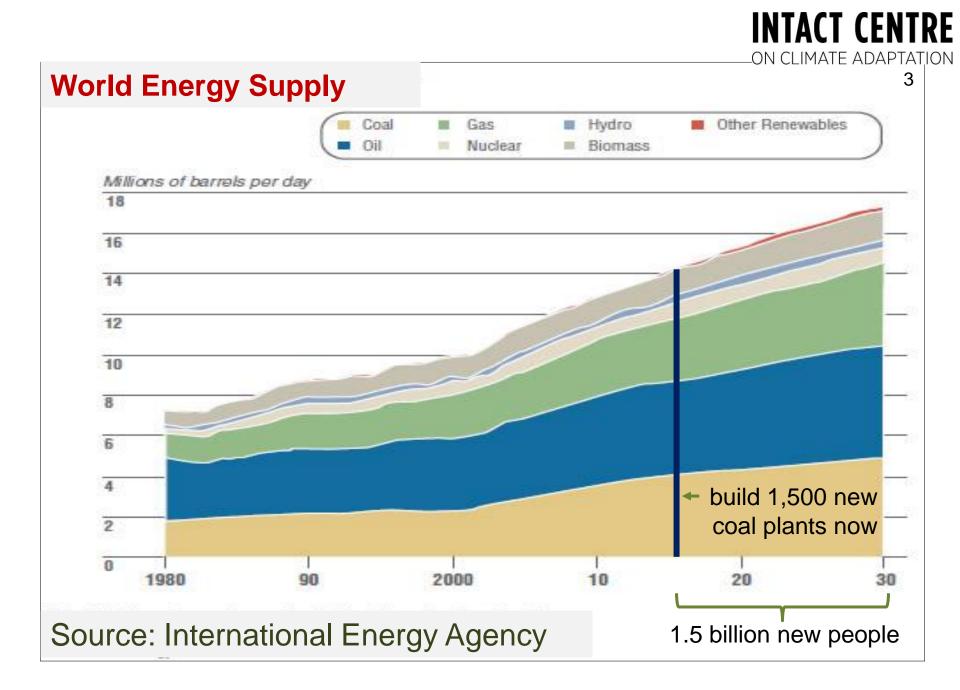


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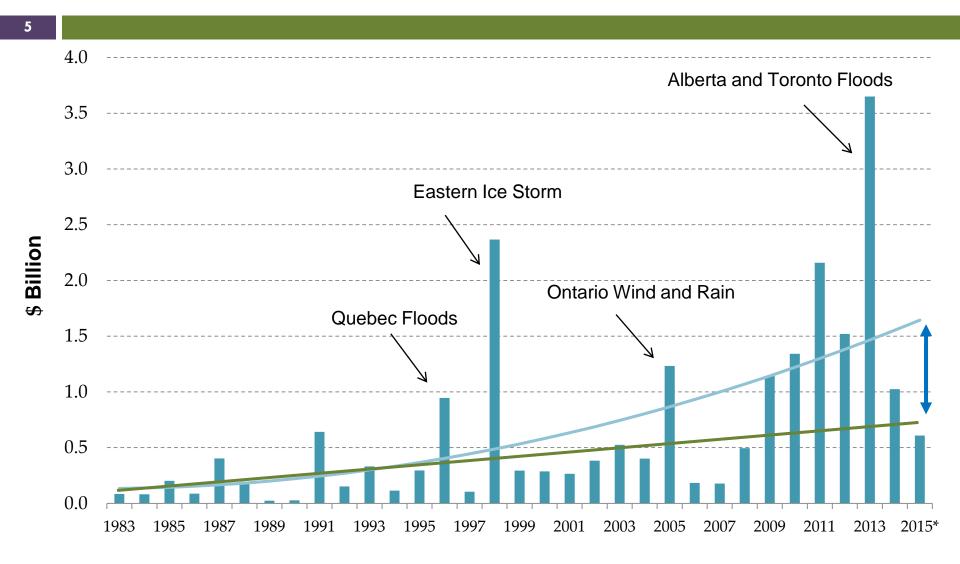


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- 1. Growing severity of climate change & extreme weather climate change is real and irreversible
- 2. Property & Casualty insurance costs are growing
- 3. Flooding \rightarrow non-insurable housing \rightarrow mortgage arrears
- 4. Home Adaptation Assessment Program (HAAP)
- 5. How to sell adaptation to political leaders
- 6. What groups are missing from the adaptation equation?
- 7. Conclusion/Questions



Escalating Catastrophic Insurable Losses





Courtesy: Insurance Bureau of Canada

*2015 data incomplete

HOME ADAPTATION ASSESSMENT PROGRAM

INTACT CENTRE ON CLIMATE ADAPTATION

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Home Adaptation Assessment Program (HAAP)

- Limits the potential for basement flooding
- Limits potential damage if basement floods

Technical Aspects of Assessment

- Assessment time per property = 1.5 2.5 hours
- Homeowner required to accompany assessor
- Assessment reviews 50 points of reference, both inside and outside house, to limit flood potential – e.g., disconnecting downspouts, contouring to direct water away from foundation, plastic covers over window wells, battery back-up for sump pump, etc.
- ROI 1:7 per ten years (i.e., \$1 invested in HAAP will realize \$7 in avoided basement flood savings per ten years)

How to Sell Adaptation

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	"Low Hanging Fruit"	
Adaptation Characteristic	Home Adaptation Assessment Program	Flood Plain Mapping
Positive ROI	Yes	Yes & No
Political Capital	Yes	No
Media are Positive	Yes	Yes
Nationally Applicable	Yes	Yes

What Groups are Missing from [the Adaptation Discussion?

- 1. Banks & Credit Unions focus on the mortgage side
- Credit Rating Agencies factor flood & extreme weather preparedness impacts into credit assessments of municipalities and publicly traded companies
- 3. Pension Funds apply an "adaptation lens to all "low turnover stock" infrastructure investments
- 4. Securities Commissions
- 5. Legal emphasize due diligence protection related to flood preparedness

CONCLUSION/ RECOMMENDATIONS



- 1. More severe weather is coming, guaranteed, as we continue to change the chemistry of the atmosphere
- 2. Canada must double-down on adaptation, to the equivalent of GHG mitigation efforts remember, the benefits of adaptation are local
- 3. Must identify and move forward quickly on "<u>sellable</u>" adaptation initiatives
- Bring non-traditional players to the adaptation table e.g., Credit Rating Agencies, Banks/Mortgage market, Securities Commissions, Pension Funds