Regulation and Governance in Canada's Electricity Sector

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Issues for today's discussion

How are electricity policy decisions made?

•Does it matter?

Some ideas for reform

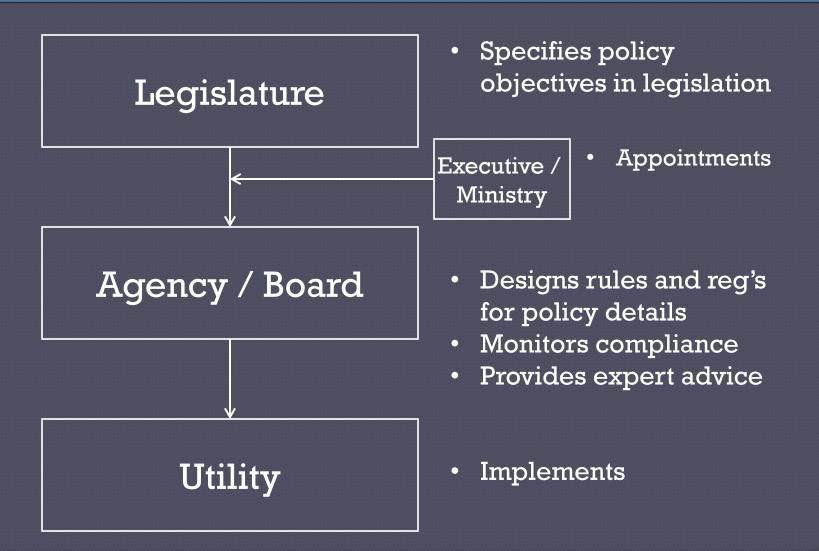
What is governance?

 Who makes policy decisions?
 Legislature / minister / agency / utility / courts

•*How* are policies made?

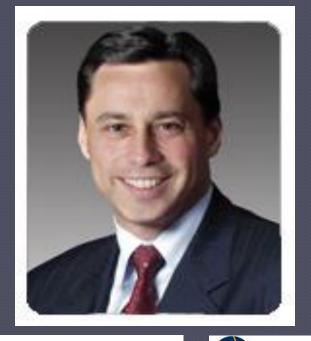
- Legislation / directives / regs
- Initiation / approval / veto / appeal
- Evidentiary & consultation requirements

A typical framework



Ontario: ministerial control





• Directive powers

- Extensive
- Unrivalled in other OECD countries
- Appointments of senior board / agency staff
 - Short-term





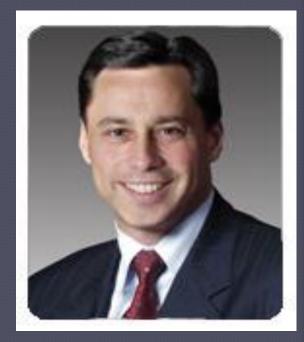
Significant usage of directives

- 2004 and 2009 Acts significantly expanded scope of ministerial directive power
 - New generation procurement
 - Renewable energy capacity, pricing, content
 - Competitive versus non-comp. processes
 - 46 directives to OPA since 2004, 11 in 2010
 - Very flexible policy instrument
 - No public consultation, rationale, notice required Exposes policy to short-term political pressures

New minister / new policy

Average ministerial tenure ~ 12 months A brief history of feed-in tariffs in Ontario

- Cansfield (2006) implements RESOP
- Duncan (2007) modifies
 RESOP to include small hydro
 Phillips (2008) suspends
 RESOP
- Smitherman (2009) reinstates RESOP for biogas only
- DuGuid (2010) implements new FIT; axes off-shore wind; reduces rates for some solar



Does it matter?

Renewable energy companies rate *policy stability* as one of the worst aspects of Ontario's business climate

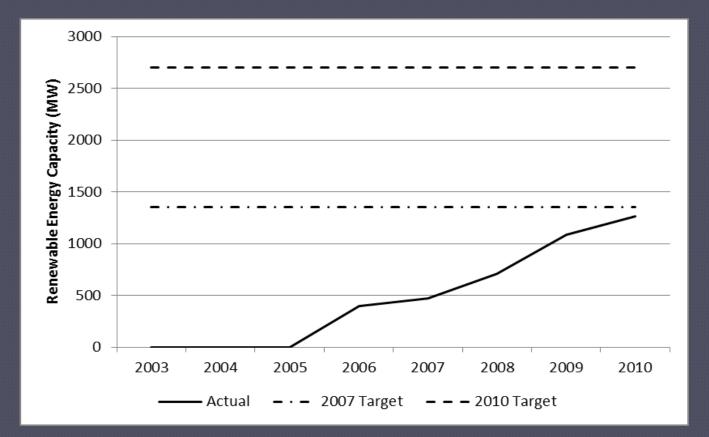
| | Wind firms (29) | Solar firms (8) | Technology manufacturers (15) |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 highest rated criteria in Ontario | Length of PPA Transparency of PPA process Availability of engineering and construction expertise | Length of PPA Ease of obtaining rights to land Transparency of PPA process | Cost of electricity Proximity to transportation infrastructure Availability of skilled labor |
| 3 lowest rated criteria in Ontario | 13. Ease of obtaining municipal approvals 14. Stability of the policy environment 15. Coordination between government-related bodies | 15. Availability of transmission cap 16. Stability of the policy environment 17. Presence of I-t gov't target for renewable energy | 16. Presence of I-t gov't target for renewable energy 17. Stability of public policy for renewable power generation 18. Cost of skilled labor |

Yet renewable energy firms rate policy stability as one of the most important factors in *location choice*

| | Wind firms (29) | Solar firms (8) | Technology manufacturers (15) |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 Most Important Criteria in Location decision | Natural wind conditions Stability of the policy environment Transmission capacity availability | PPA rate PPA length Stability of the policy environment | Presence of I-t gov't target for renewable energy Manufacturing gov't incentives Stability of public policy for renewable power generation |
| 3 Least Important Criteria in Location Decision | 13. Investment / tax subsidies 14. Availability of engineering and construction expertise 15. Proximity to equipment manufacturers / suppliers | 15. Availability of engineering and construction expertise 16. Net metering 17. Proximity to equipment manufacturers / suppliers | 16. Cost of electricity 17. Proximity to research centres / universities 18. Prior experience in jurisdiction |

Does it matter?

Investment in renewable energy capacity has significantly lagged government targets



Reactions to policy risk

- 1. Lower investment levels and jurisdictional priority for Ontario
 - Ontario is a "U.S. Production Tax Credit hedge"
 U.S. independent power producer
- 2. Higher renewable energy project bid prices
 - "For the first time in RES III, we've had to price in these risks...It's very back of the envelope but it's definitely priced"
 Canadian independent power producer
- **3.** Lobbying and government relations
 - "Their [developers] futures will depend increasingly on political influence rather than business acumen"
 Senior government official

Summary so far

- Governance structures permit shortterm flexibility in provincial electricity policies
 - The lack of long-term stability is a significant problem for the sector's performance

Some ideas for reform

- Creating a stable policy framework requires reform of governance structures – i.e. *how* policies are made, and by *whom*
 - Insulating policy-making from short term political pressures will improve longer term stability and credibility

Some ideas for reform

Broad industry stakeholder survey conducted in Fall 2010 identified several reform priorities

"The principle of independence of agency decision-making should be formally stated in legislation." (93% respondents rated as High Importance)

Some ideas for reform

"Major policy objectives should be specified in legislation rather than in directives" (72%)

2.

3.

"Agency board members should be appointed for fixed, five year terms, with renewal limited to one additional term of five years" (72%)

Benefits of governance reform

- Reducing policy risk will enable governments to attract more private sector investment and *at lower cost* to consumers and taxpayers
 - Stakeholder support possible from industry *and* consumers