



Policy and Regulation in the Context of Energy Transitions

Trust in Transition Planning Workshop

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Stephen Bird

Associate Professor, Political Science, [Clarkson University](#)

Senior Fellow at Centre on Governance &

Faculty Affiliate – Positive Energy, [University of Ottawa](#)

sbird@clarkson.edu



Overview

- Transition, Technology, and Social Acceptance
- Policy Regulatory Nexus - background
- Addressing Challenges in Policy & Regulation:
 - Now
 - In the future (Transition)
- Opportunities and Issues

New Technology / Policy / Systems: Transition and Acceptance

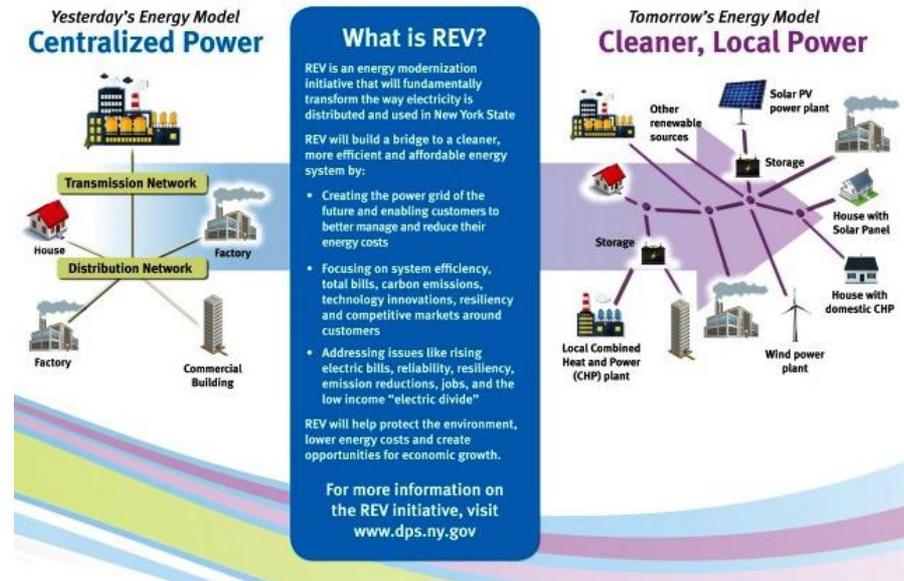
In addition to the “standard” set of problems for social acceptance ...

New Paradigms

- Smart Grid
- Policy Experimentation
 - NY’s REV (renewing the energy vision)
 - New roles for Regulated Entities
 - NY Green Bank
- DER Development
- Carbon mitigation
- Residential Energy Effic.
 - Smart housing & behavior change (acceptance/policy)

REV: Reforming the Energy Vision

New York State is leading the nation in developing new policies to encourage and reward consumers to use new technologies to control energy use.



Who Pays? New Burdens? Unanticipated Challenges? Fresh Opportunities?

New Technology / Policy / Systems: Transition and Acceptance

Decentralized Grid

- Microgrid Governance
- Integrated energy systems and/or cross-technology platforms
 - Distributed Green Data Centers
 - Solar / wind / geo-thermal / gas / storage / nuclear / hydro combos
- Isolated Energy
 - (Indig. & Canadian opportunity!)



Who Pays? New Burdens? Unanticipated Challenges? Fresh Opportunities?

Regulatory Independence & Best Practices

Open government:

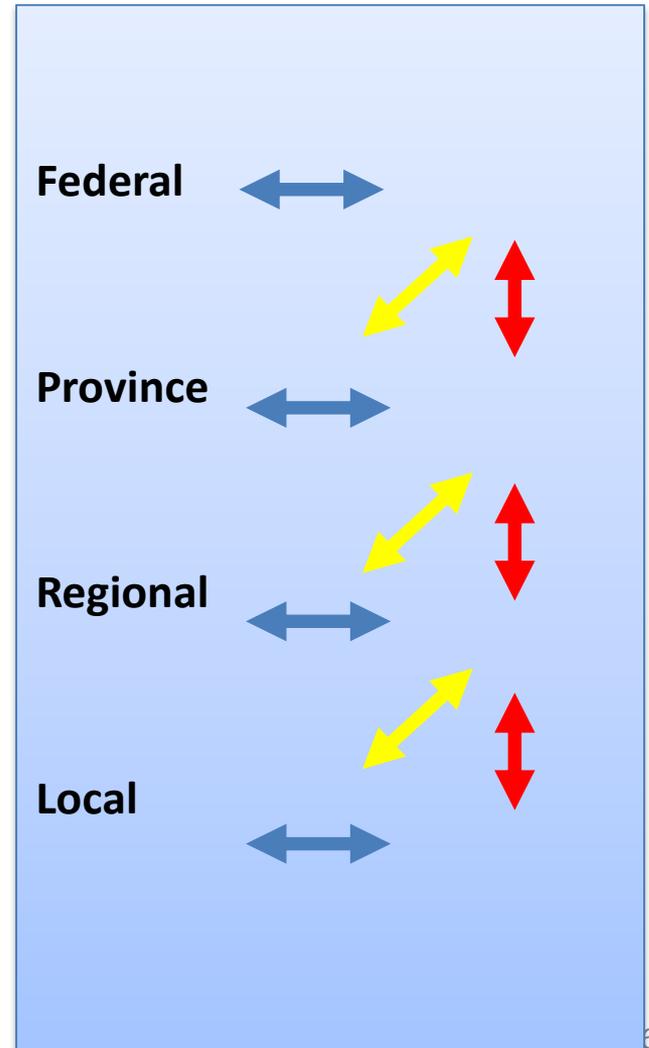
- transparency, clarity, participation, public interest, plain language
- Information provision: data, process

Concerns:

- Cabinet review of NEB decisions (Bill C-38, 2012)
- Energy East Pipeline hearings suspended (2016)
- Ontario Gov't interferes in gas plant sitings ('09-'12)
- Survey perception of independence: low

Regulatory Review and Oversight

- Clear articulation of policy goals & responsibilities
- Implementation of **regulatory coherence**
 - Integration of regulatory approach across jurisdictions, and across jurisdictional levels (national, provincial, regional, local)
- **Assessment of regulatory efficacy**
 - Before / after
- Information sharing between agencies and all levels of gov't



Emerging Challenges

National Policy Clarity: *well-defined* policy from policymakers on national issues: climate change, risk, national public goods versus local burdens communities (& when/how public can take part)

- Clear Goals
- Avoid “Picking Winners” in technology
- Find neutral ways to encourage new technology
 - Learning by Doing
 - R&D Support

Collaborative Processes for new technology and social acceptance

Alternatives to regulator who “consults”, makes a hierarchical decision ... but when?

- Regulatory systems that are ***collaborative*** in nature
 - interaction with public, municipal, and indigenous authorities
 - Strong examples exist; Canada and elsewhere
- Need for policymakers to encourage, and regulators to implement

Resources and Limits

Assisted & Accountable

Boosted & Backstopped

Championed & Constrained

Opportunities and Challenges

Opportunities

1. Policy Flexibility
 - Experimentation, collaboration, new market structures
2. Resource Opportunities
 - Multiple types; regulatory expertise

Challenges

1. Fragmentation
 - Jurisdictions & federalism; different regional energy profiles
2. Commitment to Effective Policy and Regulatory Regime
 - Resources, political will, expertise,

thank you ...

comments, feedback,
and questions welcome

Stephen Bird
sbird@clarkson.edu