## **IS ENERGY STORAGE 'TRANSFORMATIVE'?** DECENTRALIZATION & THE FUTURE OF ONTARIO'S ENERGY SYSTEM

5/12/17

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Research made possible by the financial support of the Natural Sciences and Engineering Research Council of Canada (NSERC) as part of the NSERC Energy Storage Technology (NEST) Network.





## WHAT IS 'SOCIAL ACCEPTANCE'?

"[A] favourable or positive response (including attitude, intention, behaviour and – where appropriate – use) relating to a proposed or in situ technology or socio-technical system, by members of a given social unit (country or region, community or town and household, organization)"

UPHAM ET AL. 2015

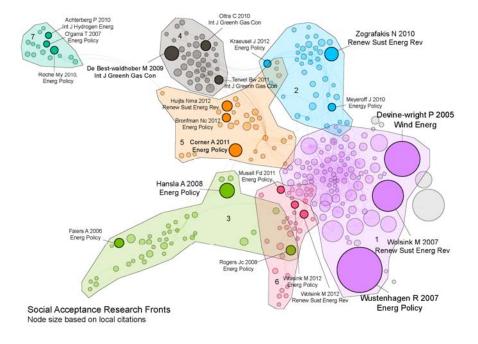


IMAGE CREDIT: GAEDE & ROWLANDS (2016)

A network map illustrating the largest current research fronts in the domain of social acceptance of energy & fuels



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STAKEHOLDER PERCEPTIONS OF ENERGY STORAGE IN ONTARIO

## **ES IN ONTARIO: A ROCK AND A HARD PLACE**



SYSTEM LEVEL ('JACK-KNIFE')

- Surplus baseload gen. (SBG)
- Optimization / Flexibility
- Relationship w. natural gas
- Relationship w. renewables
- Services (i.e., ES is niche)



DISTRIBUTION LEVEL (DEPENDS)

- Central v. Decentralization
- LDCs as ES proponent
- LDC as a platform
- Risks to LDC / System
- Regulatory Complications



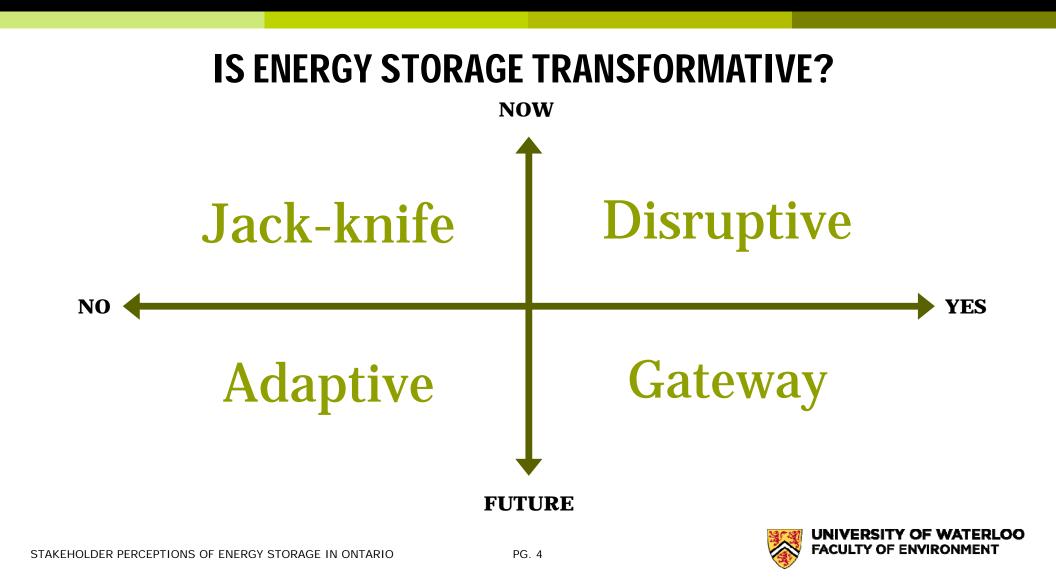
## END-USER ('DISRUPTIVE'?)

- Cost control
- Residential
- Net metering
- Third-parties
- Remote communities





STAKEHOLDER PERCEPTIONS OF ENERGY STORAGE IN ONTARIO





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