

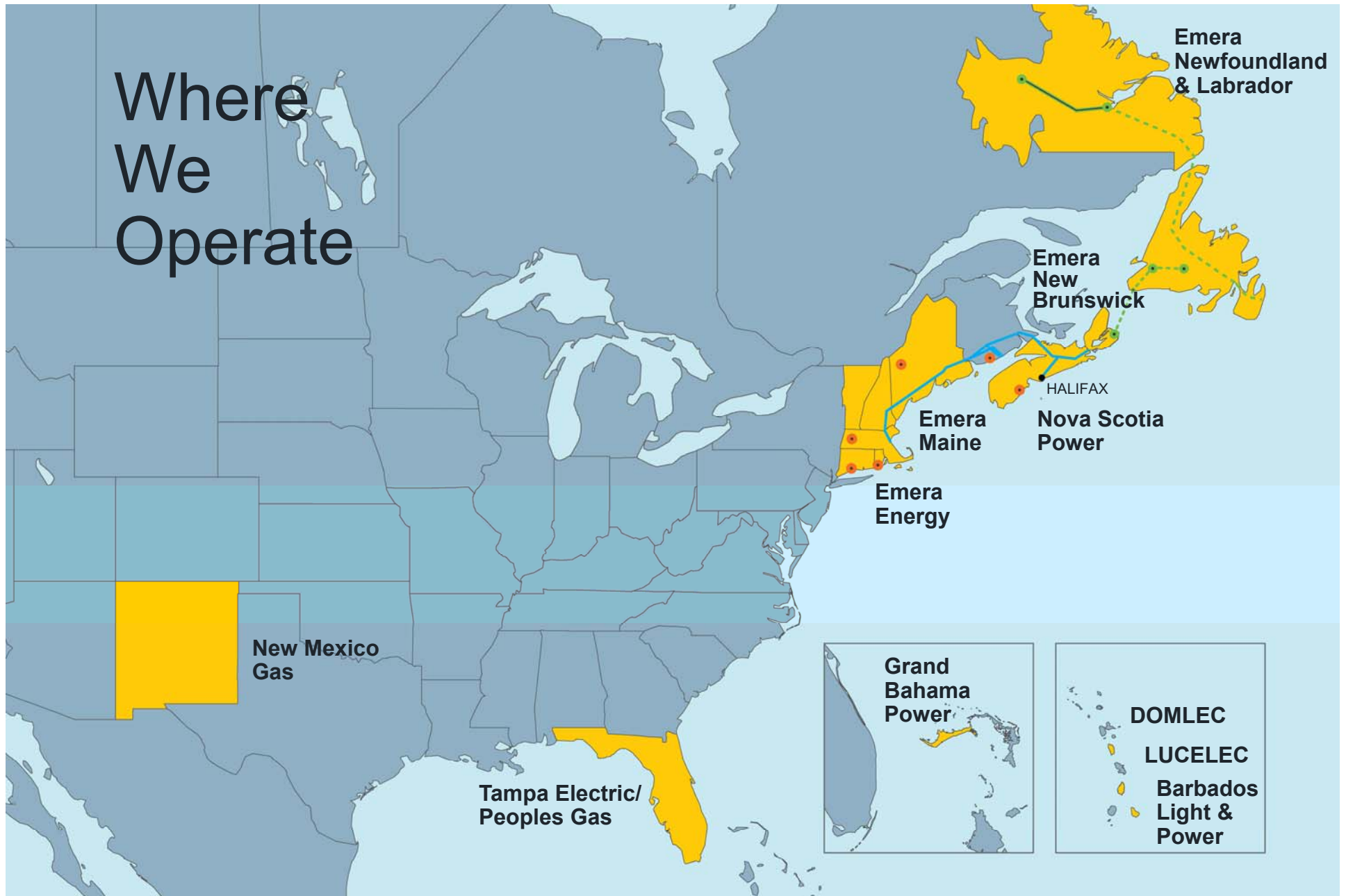


**New England-Canada Business Council**  
*Enabling A Regional Energy Strategy*

**November 2016**



# Where We Operate



# Where Could We Go?

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## Vision

### Cleaner Electricity Used for More Purposes

- more *renewable generation*
- better *regional transmission* connections
- *electrification* of home heating and transportation

## Results

### Permanent, *economy-wide emissions reductions*

- aligned with Canada's COP21 commitments and U.S. Clean Power Plan

### Regional Sharing and Optimization of Cleaner Electricity

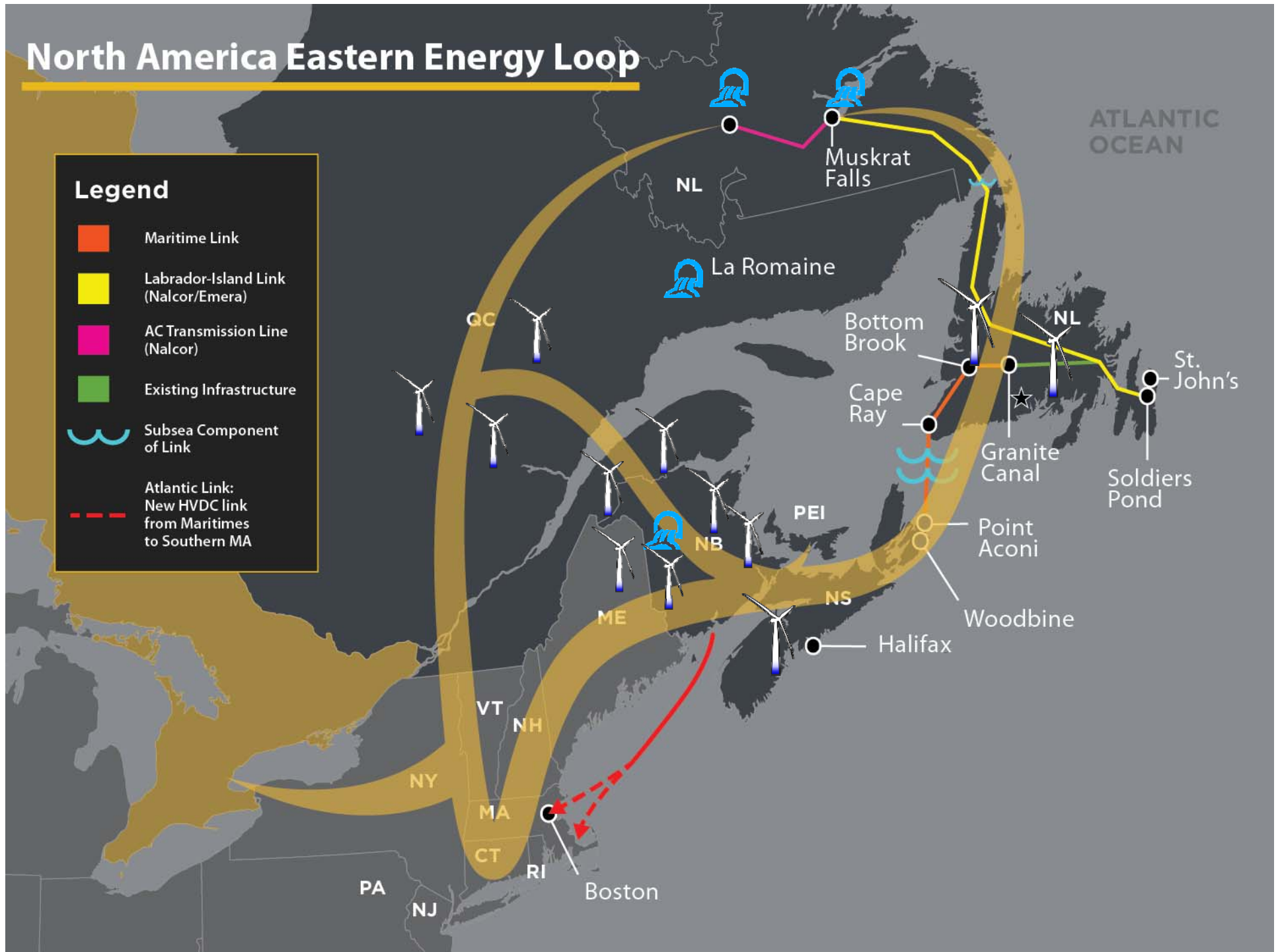
- between *neighbouring provinces and states* in northeastern North America

### *Collaboration and Innovation* that creates clean energy jobs

- helps make (and keep) the northeast region competitive



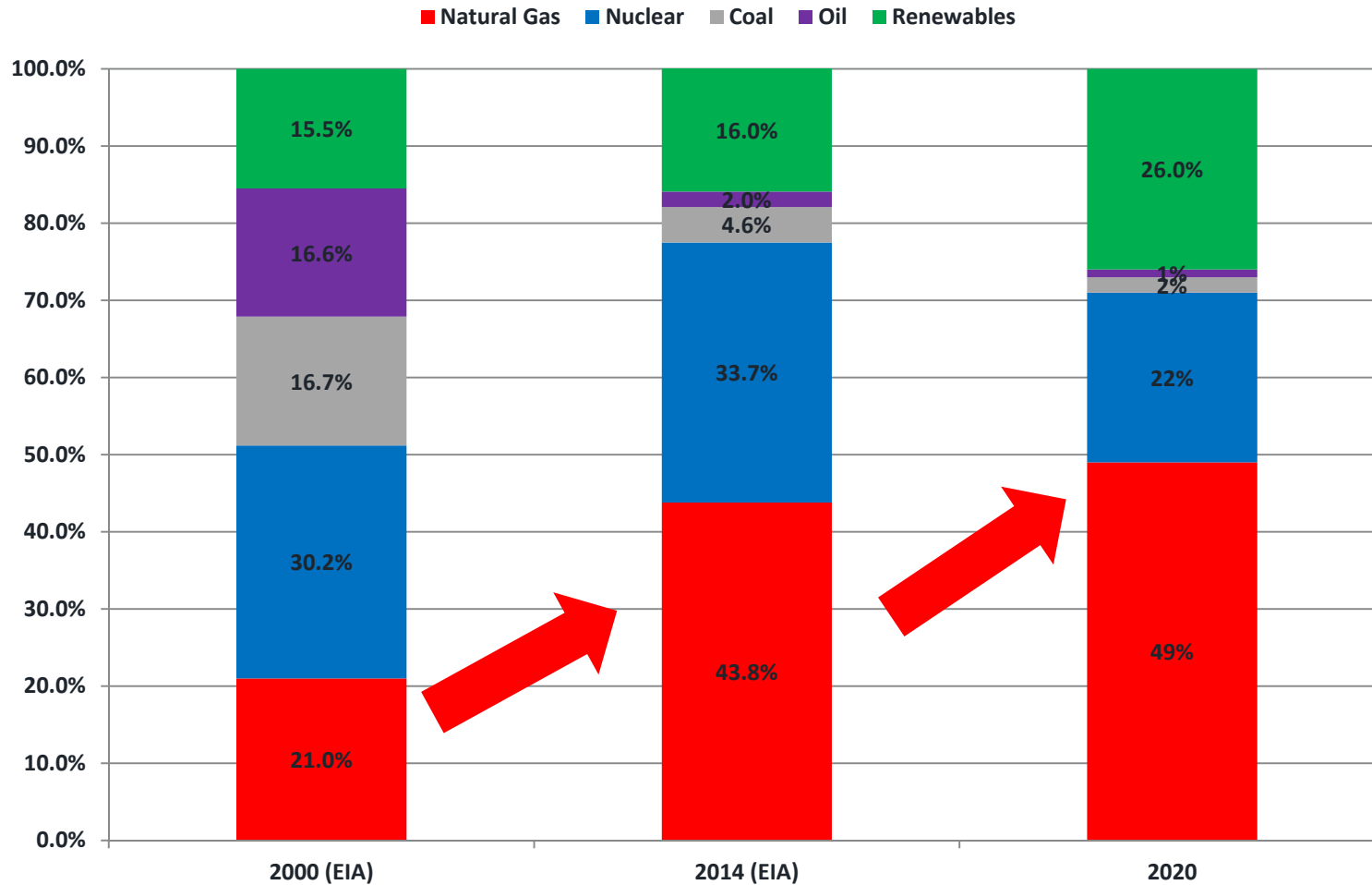
# North America Eastern Energy Loop



# New England reliance on natural gas

## New England generation

Source: Power Advisory LLC study for MA Clean Electricity Partnership (April 2016)



- In 2015, ISO-New England reported that 49% of generation was natural gas
- Even with current dependence on natural gas - during winter peak periods in February 2015, coal and oil were 42% of New England energy production

# Gas: not a 'bridge' in Atlantic Canada

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## ***“Coal to Clean”*** strategy for Atlantic Canada?

- Use existing coal-fired generation, but less and less over time
- With a new, large north-south transmission connection ... potential for natural gas generation from New England to serve Atlantic Canada during its complete transition away from coal generation

# Opportunity

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- ***Stronger transmission connections*** between eastern Canada and New England (and New York)
  - Better U.S. access to Canadian hydro; wind energy from the Maritime provinces, NL and QC; tidal energy from the Maritimes - providing long-term price stability
- ***Commitment of non-emitting generation to U.S. Northeast***
  - Challenging for Atlantic Canada to build necessary infrastructure on its own: regional sharing of costs for clean energy generation and transmission
- ***“Gas by wire” from New England*** could assist Atlantic Canada’s transition to a non-emitting electricity sector
  - Mutual benefit: optimization of existing assets throughout the Northeast



# Vision to Reality: Requirements

