

# Wind in Northeastern ISOs

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## Overview

- Prospects are good, but New England is in Early Days
- Development is dependent on other factors
- ISOs have processes for integration



## Electric power policy seeks balance of cost and air pollution

Two slides from ISO-NE presentations :

- Choice of Natural Gas for plants led to higher costs.
- Renewables requirement from RPS (*in energy*) not easy to reach.

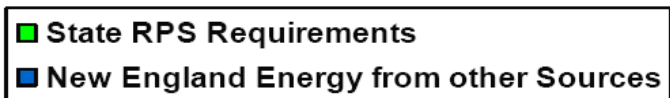
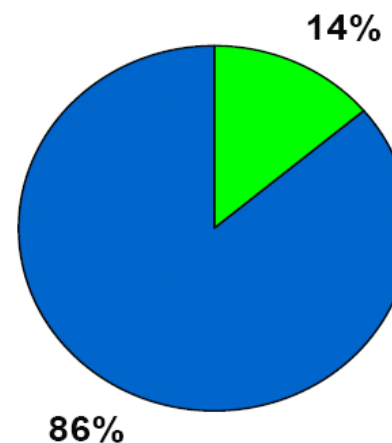
prior to Mass increasing RPS

## Key Issues in New England

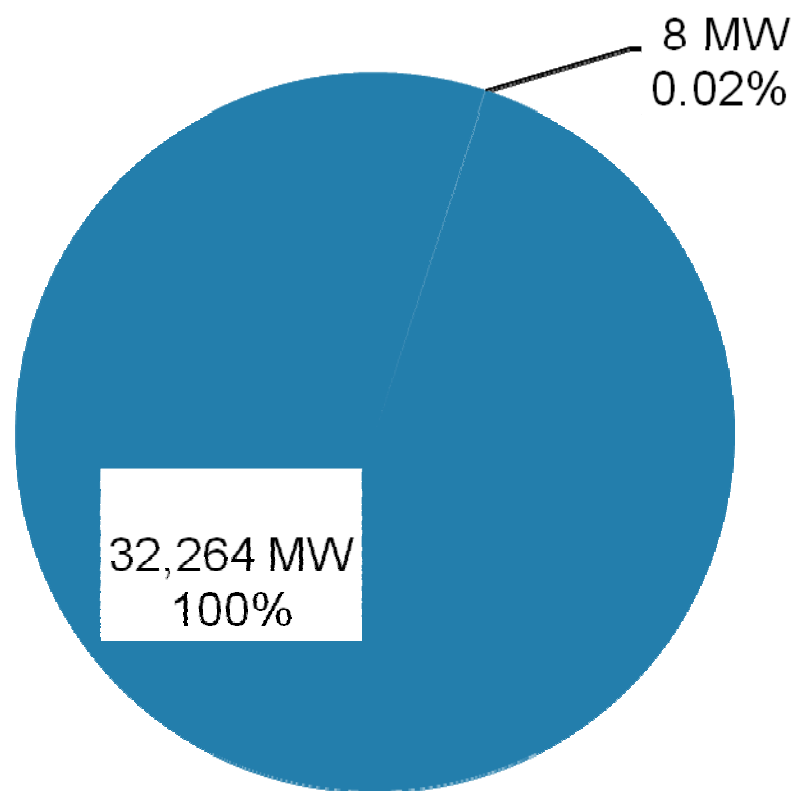
- **Growing Renewable Requirements**

- To increase from 5.6% of total energy in 2007 to 14% in 2016

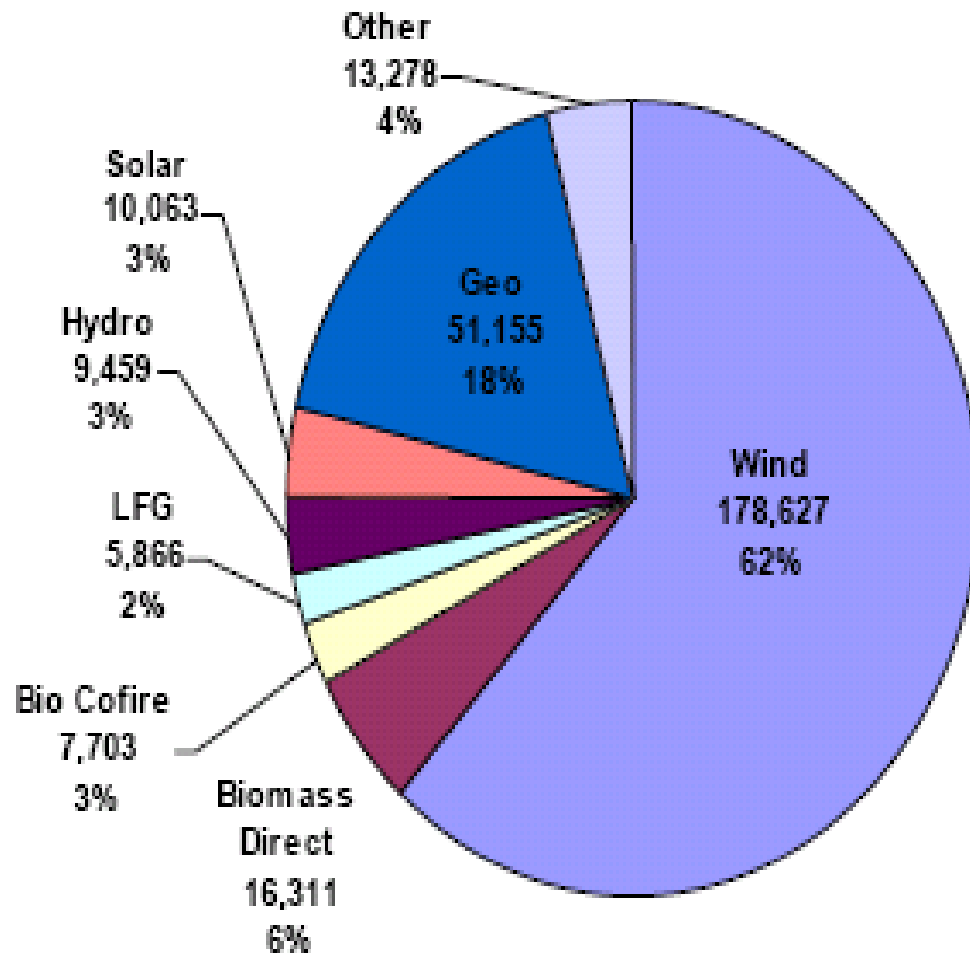
Renewable Requirement as a % of Energy in New England (2016)



## Current Wind in ISO-New England



**Early Days!**



Prospects are Good:

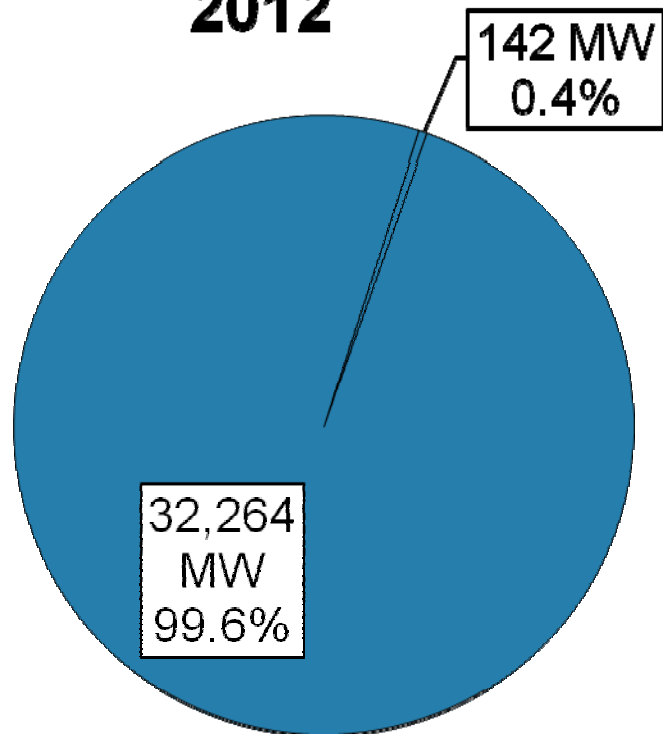
Wind is least cost supply to meet RPS.

Source: LBL review all studies of RPS compliance, present and future

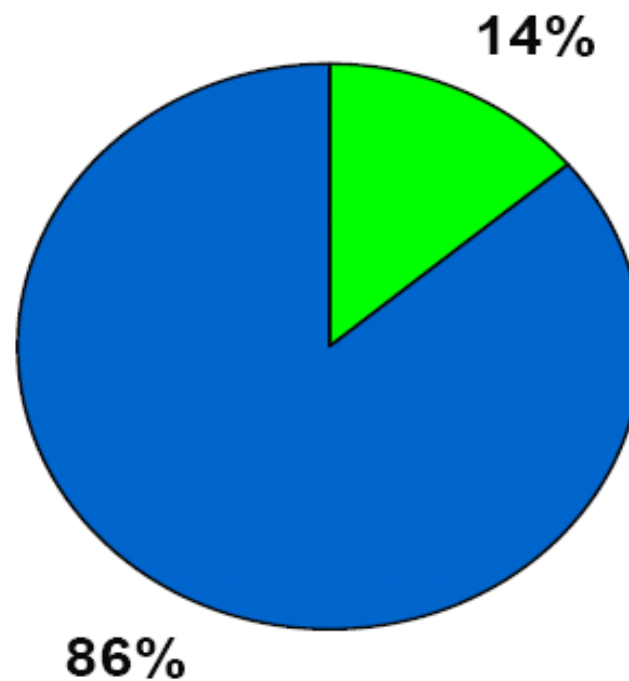
Figure 5. Mix of Incremental Renewable Generation from All Studies Combined (GWh, %)

- Projects need permits
- Transmission limits wind
- Federal Production Tax Credit creates uncertainty

## Wind Qualified in FCA by 2012

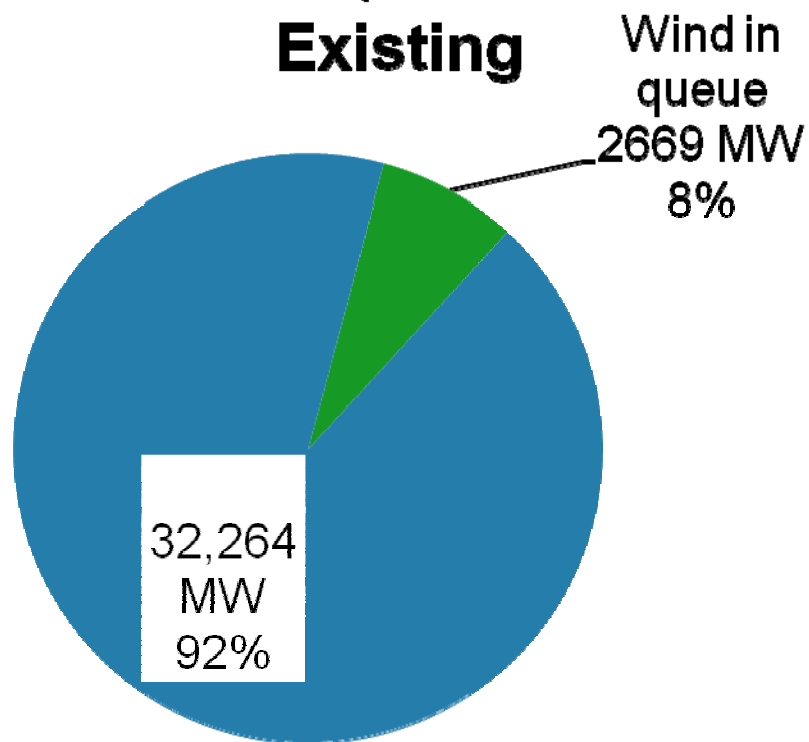


## Renewable Requirement as a % of Energy in New England (2016)

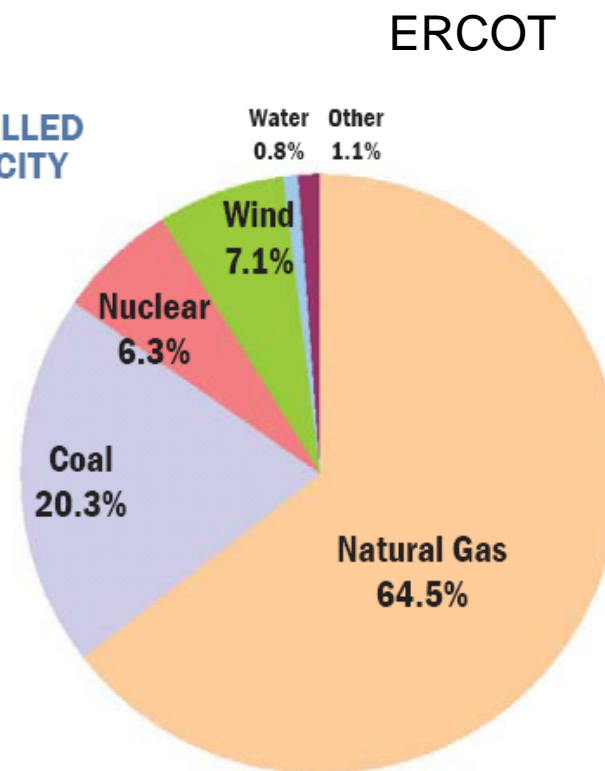




### Total Wind in Queue and ISO-NE Existing



### INSTALLED CAPACITY 2008



## ➤ Integration

- Study is good – aim before shooting
- Forecasting as an addition to demand forecasts also a good addition

# Thank You!