# IF IT AIN'T BROKE, DON'T FIX IT? OBSERVATIONS FROM SEA'S 'REMO' NEW ENGLAND 'CLASS I' REC MARKET ANALYSIS

**Bob Grace** 

#### New England Electricity Restructuring Roundtable (#153) March 24, 2017



Sustainable Energy Advantage, LLC



## What is REMO? Renewable Energy Market Outlook

- Much more than just a <u>forecast</u>... A <u>market</u> <u>outlook</u> on the New England market for new (Class 1) renewable energy credits
- Since 2005 → 3x/yr subscription briefing
- On results of our extensive analysis of... Supply, demand, drivers, risks, scenarios, price implications for each state's intertwined market =
- A detailed fundamentals analysis conveying a deep understanding of complex marketplace



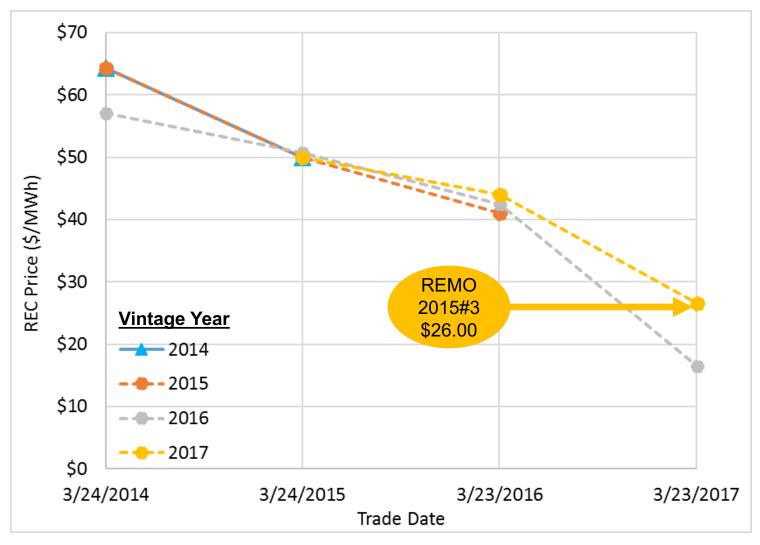
Market shifts visible before they show up in the broker forwards



## Who uses REMO?



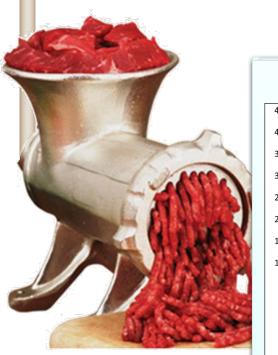
## The REC Market has Changed Evolution of Recent Broker Forwards

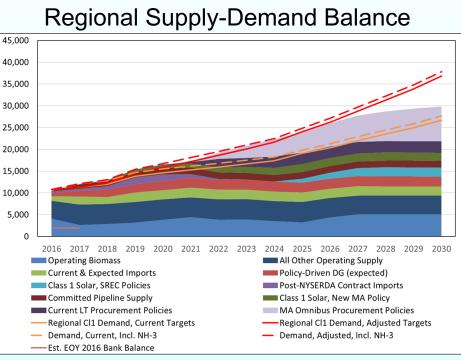


## Dec. 2016 Analysis Went Like This

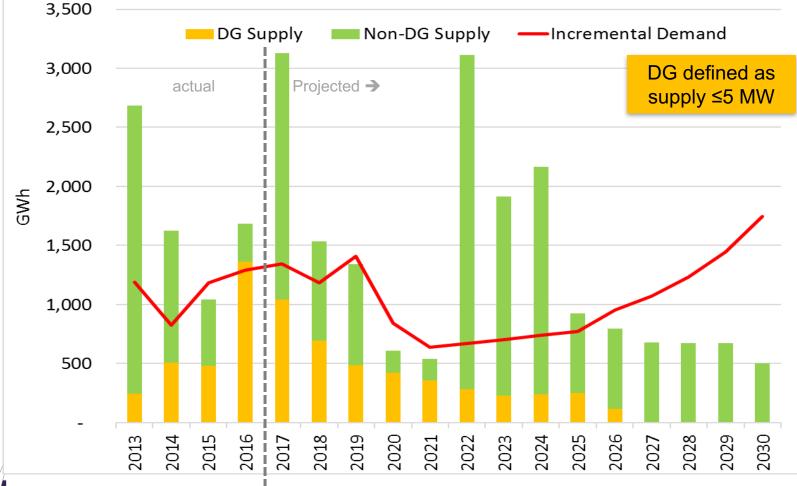
### **DANGER!**

This type of analysis should only be performed by a qualified professional.





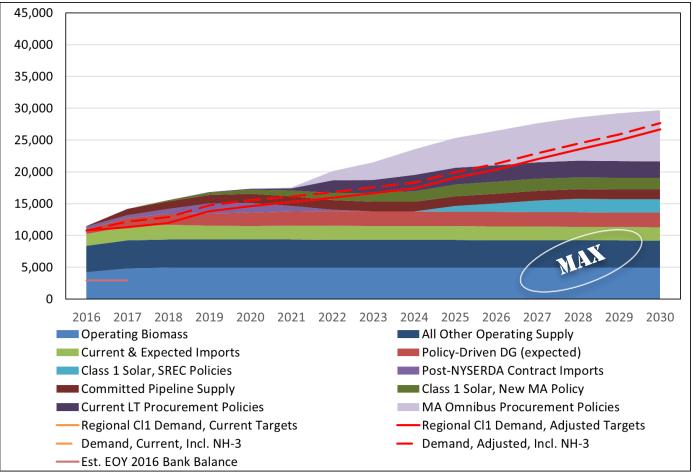
#### Year-over-Year Incremental Supply <sup>BAU</sup> <sup>BAU</sup> <sup>DG</sup> vs. Non-DG vs. Incremental Demand

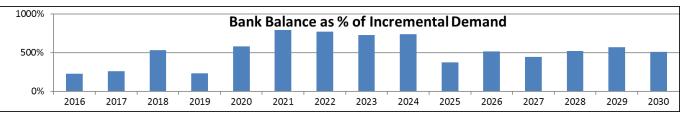




Reflects current statute & policy, including MA SRECs & SMART Assumes MA 83D = 70% hydro, 30% Class I

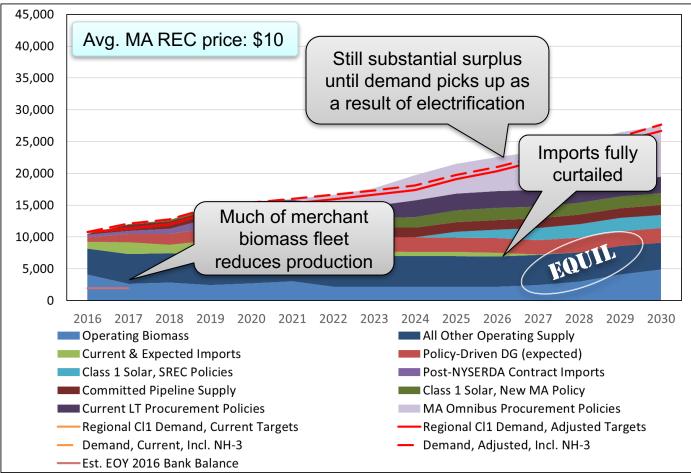
## Business as Usual (BAU)

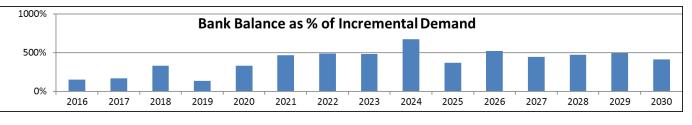




7

## **Business as Usual**



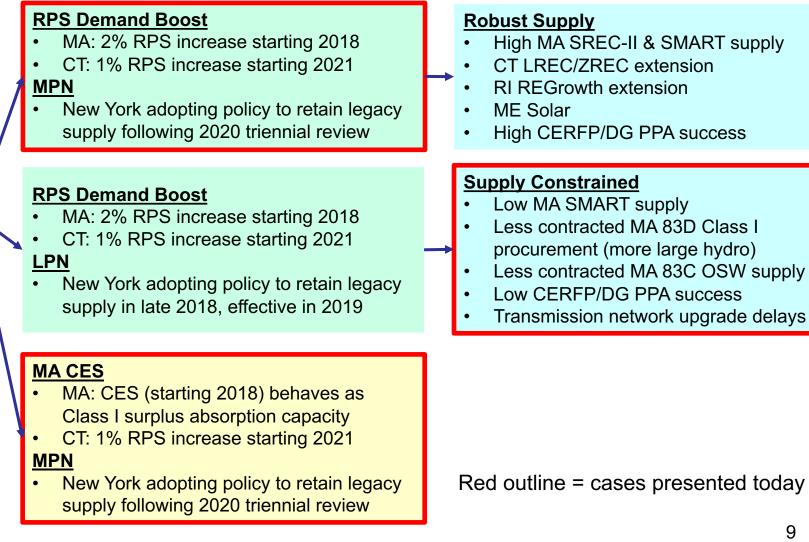


8

### What May Alternative Futures Look Like? REMO 2016#3 Case Map

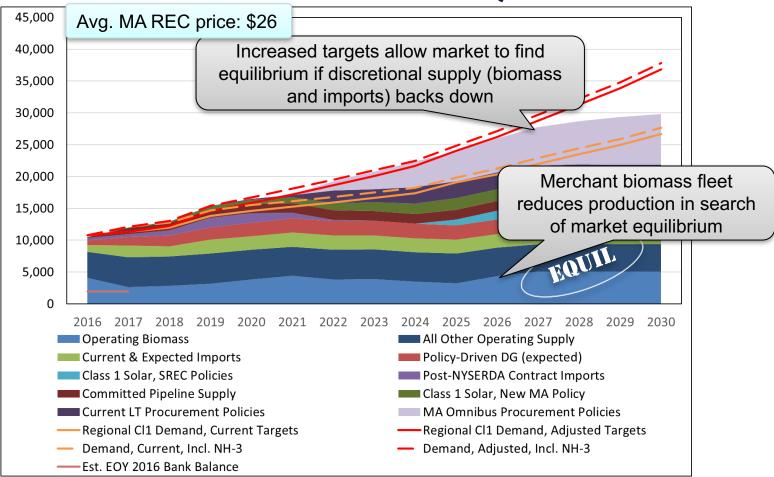
#### Cases

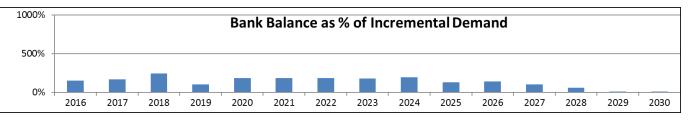
#### **Sensitivities**



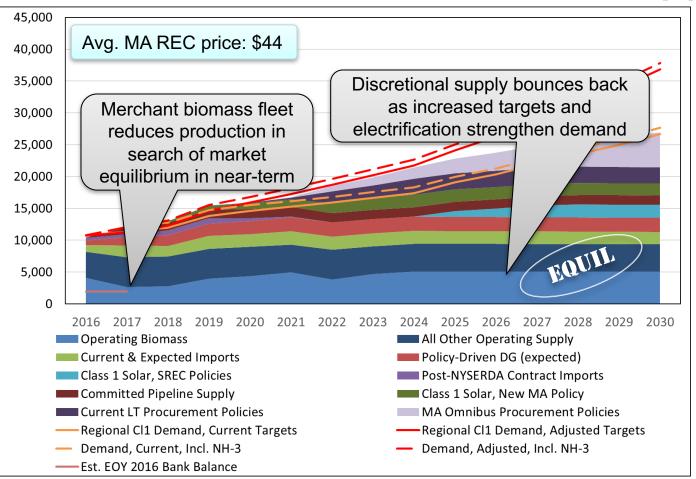
Business as Usual

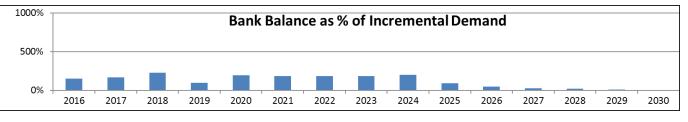
## **RPS Demand Boost; MPN**





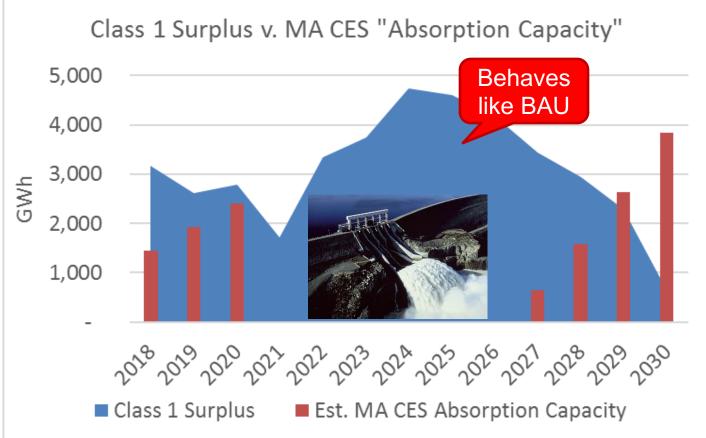
### **RPS Demand Boost + Constrained Supply**





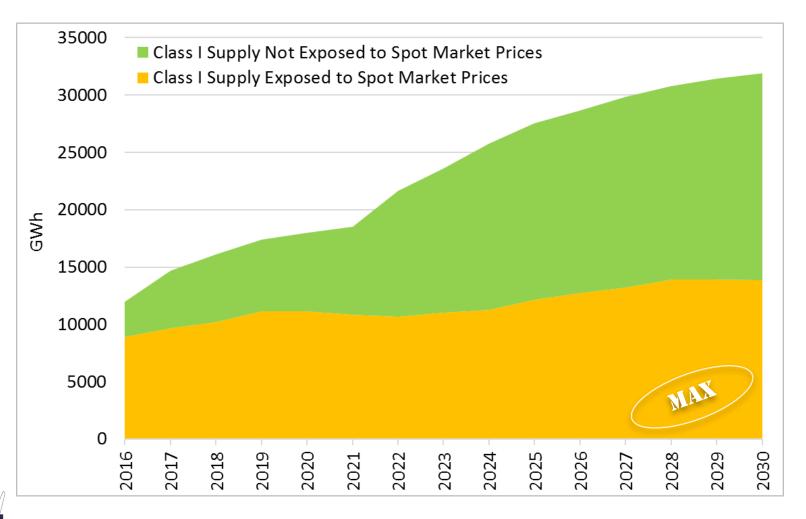
11

### Estimating MA CES 'Surplus Absorption Capacity' CT(D) + MA CES: MPN

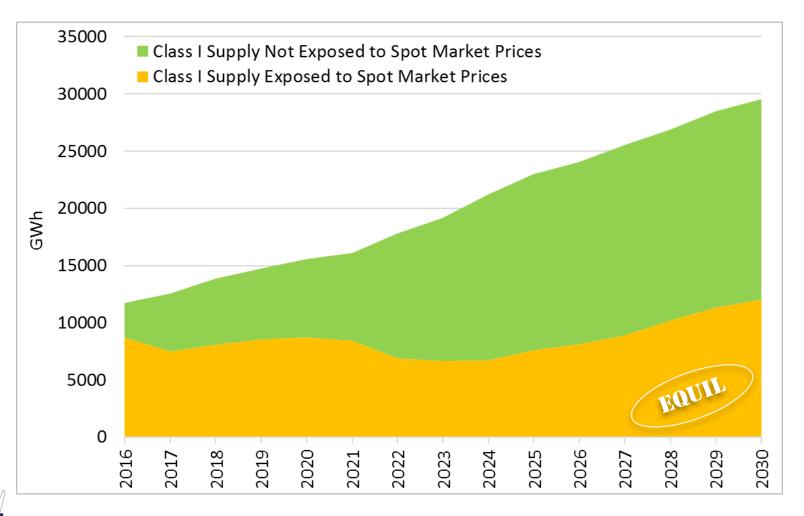




# BAU Hedged vs. Merchant Supply



# BAU Hedged vs. Merchant Supply



# **Conclusions/ BAU Implications**

- When procurement >> targets, implications for...
  - Ratepayers
    - LT contract hedges → stabilize cost and insure against high cost future
    - But oversupply does not result in huge RPS compliance cost savings (shift costs to wires charges as EDCs sell for large loss)
  - Generators
    - Competitive procurements/LT contracts → important to getting new RE projects financed and built at lowest cost (in each 'bucket')
    - Merchant plants accepted market risk... got an extra helping of policy risk for free
  - Policy/Targets
    - Extra procurement shuts down RE → and require more NG
    - Surplus RECs, and associated benefits, flow to other states
- RPS is a market policy
  - Does the BAU look like a market?
  - Does the regional BAU make any sense?





### **Questions and Comments**

Sustainable Energy Advantage, LLC Contact: Bob Grace 508-665-5855 bgrace@seadvantage.com 161 Worcester Road, Suite 503 Framingham, MA 01701 www.seadvantage.com

Copyright © Sustainable Energy Advantage, LLC