



**Maryland**  
Department of  
the Environment

# GGRA Modeling Update

This presentation does not represent any state policy positions nor does it represent a proposed state climate plan. This is simply the first of several model runs that examine different scenarios to be used to guide the state in developing a climate plan. These materials are informational only and should not be used for any other purpose.

Mitigation Working Group  
August 30, 2018

# Policy Scenario Modeling

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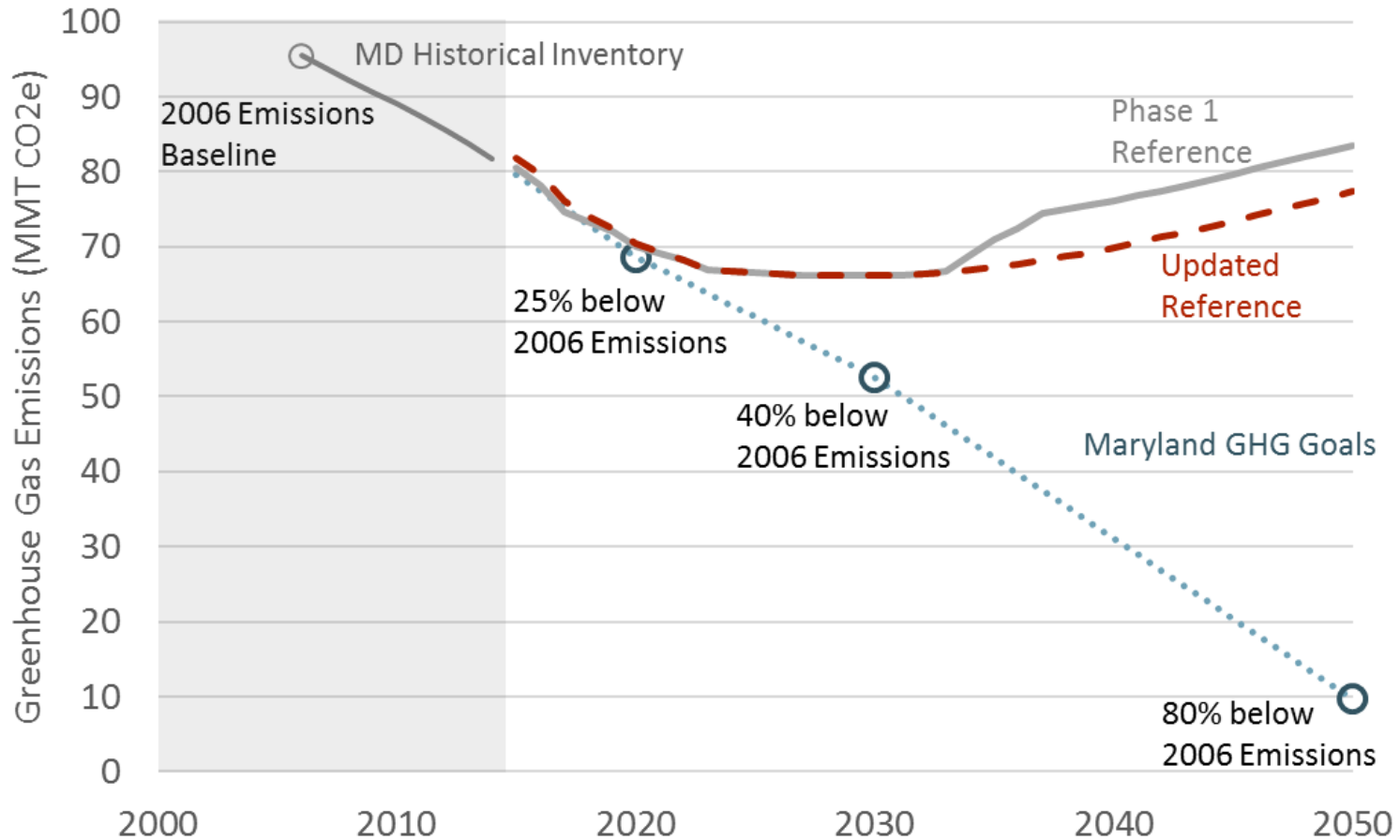
1. Reference Case: “Business-as-usual” scenario incorporating effects of major policies as the currently exist on the books.
2. Policy Scenario 1: Extension of current program framework (e.g. EmPOWER extension, higher RPS goal).
3. Policy Scenario 2: New programs and changing program frameworks.
4. Policy Scenario 3: Reserved for MWG.
5. Policy Scenario 4: “Clean-up” scenario at the end of the process incorporating final decision of programs to include in draft plan.

***TODAY: Updated Reference Case and Policy Scenario 1***



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# Updated Reference Case



**Gap in 2020: 1.7 MMT (2% above goal)**  
**Gap in 2030: 13.6 MMT (26% above goal)**

## Why does the model miss the 2020 goal?

- Corrections from prior version (e.g. MSW CO<sub>2</sub>)
- Conservative approach
- Lots of uncertainty: 2% is well within error range
- Weather will play a role
  - 2017 Inventory may meet 25/20 goal 3 years early

We are still on track, and still need to push harder

# Policy Scenario 1 Expectations

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First of four scenarios

NOT a policy proposal

NOT the 40/30 plan (that's scenario #4)

DOES NOT achieve the 40/30 goal (but gets close)

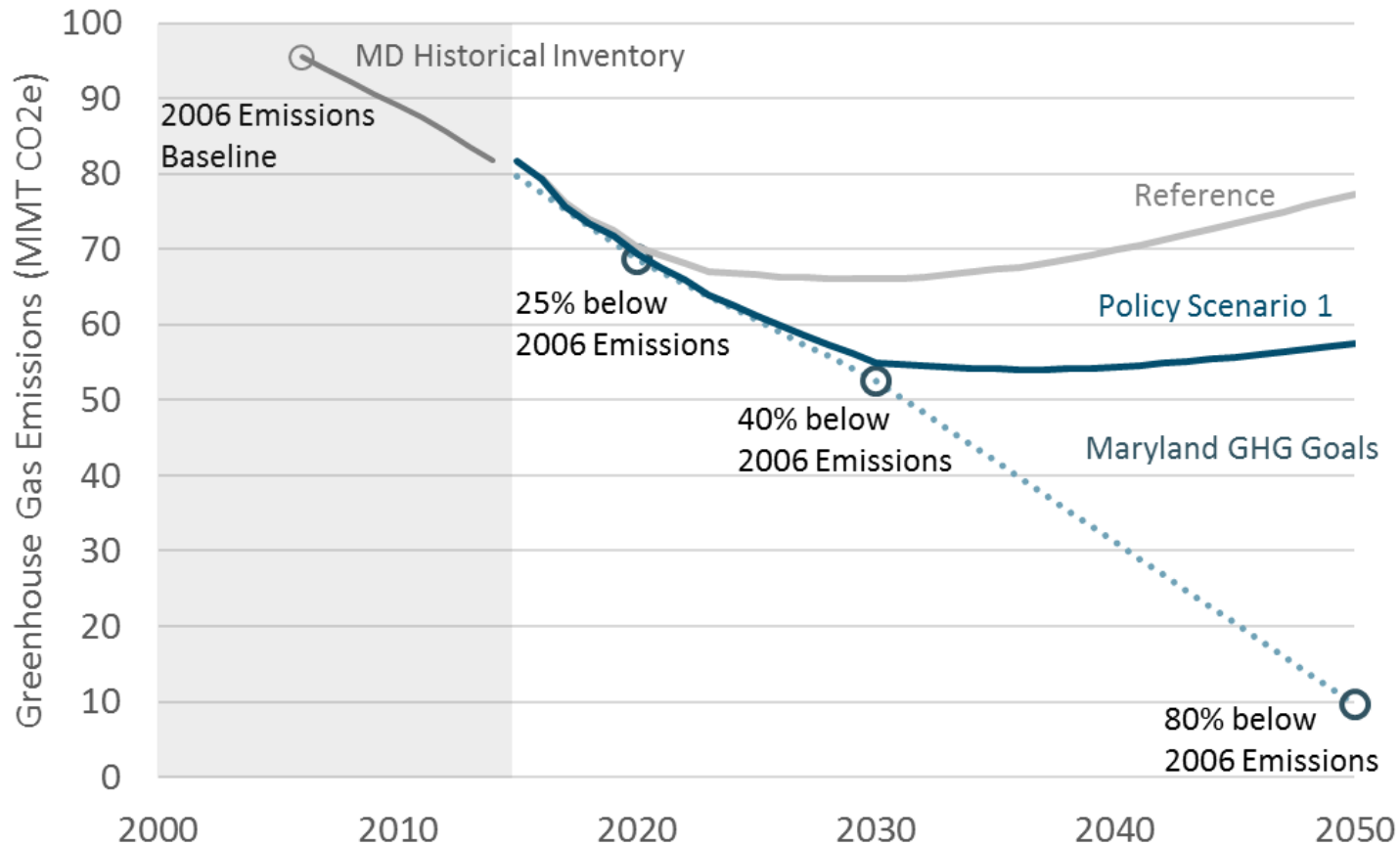
DOES meet economic impact requirements

Useful launching point for discussion of new approaches



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# PS1 Results



Gap in 2020: 0.7 MMT (1% above goal)  
 Gap in 2030: 2.4 MMT (5% above goal)  
 Gap in 2050: 47.8 MMT

Climate Benefits Through 2030: \$2.9B  
 Climate Benefits Through 2050: \$14.8B  
 (global SCC, 3% discount rate, real 2018\$)

# Timeline

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Today: Present Scenario 1 results to MWG; discuss modeling improvements

September: Develop & run Scenario 2

October: Develop & run Scenario 4 (final)

November: Drafting & Review

December: Review & Approval

\*Scenario 3 reserved for MWG; timing TBD



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