



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Energy Programs Office



Climate Change Advisory Committee Meeting

October 27, 2020

Tom Wolf, Governor

Patrick McDonnell, Secretary

Agenda

- Introduction
 - Approval of August minutes
- Summary of CCAC Feedback
- ICF Presentation on 2021 Climate IA
 - 2021 IA discussion
- ICF Presentation on 2021 CAP
 - 2021 CAP discussion
- Public Comment (15 minutes)
- DEP Presentation on Abandoned and Orphan Wells
 - Abandoned and Orphan Well discussion
- Update on Proposed Cap and Trade Regulation
- New Business, Next Steps/Next meeting (12/17/20)

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Outcomes of CCAC Feedback

ICF 2021 Climate Impacts Assessment and Climate Action Plan Presentation

- *DEP will be engaging with other DEP bureaus and agencies through the development of the IA and the CAP.*

Draft 2021 Climate Impacts Assessment Outline

- *The IA sectors will be adjusted to better highlight and address impacts to built infrastructure.*
- *The IA will qualitatively discuss potential climate change impacts beyond 2100.*
- *The IA will include information on positive impacts or opportunities that may arise.*

Outcomes of CCAC Feedback

Draft 2021 Climate Action Plan Outline

- ***The CAP will highlight costs and benefits more than previous versions, with a focus on shorter and longer term costs and benefits.*** Costs and benefits will not just be economic, but also focus on public health and air quality.
- ***The CAP will be more user friendly and focused on public accessibility.*** Methodology discussion and more technical materials will be provided in an appendix or technical support document.
- ***The CAP will include mention of levels of government responsibility and action for strategy implementation (federal, state, local).***
- ***The term GHG reduction will be used instead of GHG mitigation.***

Outcomes of CCAC Feedback

Draft PA CAP GHG Reduction Strategies

- ***How to apply grid emission factors will be considered.*** Marginal factors will be used for distributed resources as opposed to average grid emission factors to calculate emission reductions (e.g., for CHP). Additionally, emission factors, both average and marginal, will be developed through ICF's Integrated Planning Model (IPM), which represents a more sophisticated and accurate analysis as compared to the 2018 CAP. Variations between peak and off peak emission factors will not be considered due to data and resources limitations.
- ***Natural sequestration will include both forest and soil carbon (via the agricultural sector).*** Additionally, the CAP will address no-till, cover crops, biodigesters, and solar on farmlands.
- ***Carbon capture and sequestration will be classified as an enabling technology.*** The terminology will be expanded to cover utilization of carbon dioxide (CCUS).

Outcomes of CCAC Feedback

Draft PA CAP GHG Reduction Strategies, cont.

- ***The CAP will not include all potential strategies.*** Priorities will be identified and timing and phasing of strategies will be addressed in the CAP.
- ***CHP will be incorporated with more refined analyses.*** Including how emission reductions are represented (see above on grid emission factors) and for what specific applications CHP will be most valuable (e.g., industrial applications).
- ***Additional attention and refined analysis will be completed for the industrial sector.*** Including considerations about specific industries or sizes of industries or manufacturers.
- ***The term GHG reduction will be used instead of GHG mitigation.***
- ***GHG reduction strategies will be considered using various criteria weights when conducting the prioritization.***

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