

**GWSA Implementation Advisory Committee (IAC)**  
December 21, 2017, 2:30PM – 4:00PM  
100 Cambridge St., 2<sup>nd</sup> floor, Conference Rooms C/D

**Draft Meeting Summary**

**Welcome**

Dan Sieger, EEA Assistant Secretary of Environment, filled in for EEA Assistant Secretary of Climate Change, Katie Theoharides, who was on medical leave. The meeting was called to order at 2:37PM.

**Updates & Discussion**

Assistant Secretary Sieger updated the IAC members that the Transportation Listening Sessions have taken place in 4 different locations across the Commonwealth and that over 200 people participated in the sessions. The Commonwealth also has received many written comments submitted online and via email. The comment period has been extended to January 26, 2018.

MassDEP Commissioner, Marty Suuberg, provided updates on the final amendments to 310 CMR 7.74 (*Reducing CO<sub>2</sub> Emissions from Electricity Generating Facilities*) and 310 CMR 7.75 (*Clean Energy Standard, CES*). The amendment to 310 CMR 7.74 corrected technical errors in the 2018 allowance allocations for two electricity generating facilities. The amendment to 310 CMR 7.75 was filed to ensure consistency between the CES and the Department of Energy Resources' implementation of the 2016 Energy Diversity Act. MassDEP and EEA are also developing procedures for 310 CMR 7.74 in preparation for allowance auctions that will begin in 2019, and will consider submitted stakeholder comments on the auction design.

Will Lauwers, Director at DOER of Emerging Technologies, updated the IAC members that DOER recently provided \$20 million in funding to 26 energy storage projects that will benefit 25 communities, draw in \$32 million in matching funds, helping to grow the Commonwealth's energy storage economy.

**Comprehensive Energy Plan: Feedback on scope**

Joanna Troy of from DOER stated that the Request for Quotes for external consultants to develop the Comprehensive Energy Plan (CEP) was to be posted on December 22, 2017. The scope of the CEP will be finalized once the consultant is selected in January 2018. She sought IAC feedback on the scope of the Comprehensive Energy Plan with discussion questions emailed to the IAC members on December 19, 2017 (see page 5). IAC feedback during the meeting included:

- Model compliance with the GWSA emissions limit in 2050 and analyze multiple scenarios of energy demands to 2030 from new and existing policies needed to meet that limit.
- Build in flexibility to study policy impacts across different scenarios, to visualize those impacts like Harvard Forest's [Changes to the Land report](#), and to allow future updates/modifications to the analyses.
- Model the 2030 emissions limit at 25% (as baseline), 30%, 40%, and 45% of 1990 emissions.
- Factor in energy intensive activities, such as cannabis cultivation and Bitcoin mining, and energy storage.
- Be careful about predicting the future because of technology revolution(s).
- Look at pilot demonstrations and studies for implementation needs and lessons, especially on performance and economic impacts. In regards to economic impacts, future innovations could change costs, especially in the 2030-2050 window.
- Update the CEP periodically; at least after the 2030 Plan is published in 2020.
- National Grid can share their energy demand analyses.
- Metropolitan Area Planning Council can share land use, housing, and vehicle census data.
- Union of Concerned Scientists can help look at the impact of electrification (especially in the transportation sector) on energy demand, specifically time of use.

IAC members with datasets, studies/analyses, and additional feedback on the CEP were kindly asked to share with [Joanna Troy](#) as soon as possible.

### **Revised IAC work plan and next steps**

Hong-Hanh Chu from EEA presented the revised IAC work plan for 2018 (see attachment below) based on IAC feedback. The work plan includes focus questions for each working group (or (technical subcommittee) to consider, discuss, and provide recommendations, ideally at the scheduled IAC general body meeting.

Several IAC members noted that the April 19<sup>th</sup> meeting date may pose a challenge for those with school age children since it falls on Boston Public Schools' vacation week.

Steve Long from The Nature Conservancy presented a proposal (see page 6) for forming 4 technical IAC subcommittees, each focusing on electricity, transportation, building, or natural systems. The IAC member organization present at the meeting agreed to the proposal, requesting that subcommittee membership be fluid to allow shift in interest over time and as different topics arise. EEA's next steps for the IAC subcommittees include election of a chair and vice chair for each subcommittee by mid-January 2018.

<b>GWSA IAC Subcommittee Sign Up</b>			
<b>Electricity</b>	<b>Buildings</b>	<b>Transportation</b>	<b>Nature-Based Solution and Land Use</b>
UCS?	ABC (Miriam or other)	UCS	TNC
ELM (Eric Wilkinson)	CLF	ABC (Kathryn Carlson)	Mass Audubon
NECEC	MAPC (other)	MIT	MAPC (Cammy Peterson or Darci)
MAPC (Cammy Peterson)	Nat Grid	NECEC	ELM* (Nancy Goodman)
E2 (Berl Hartman or other)		MAPC (Steve G.)	
CLF		E2 (Berl Hartman)	
Nat Grid		CLF	
		Nat Grid	
		TNC	
		ELM* (Nancy Goodman)	
* added after 12/21/17 as requested by that IAC member organization.			

**Adjournment**

Assistant Secretary Sieger thanked the IAC members for their attendance and participation. The meeting was adjourned at 4:02 PM

## Meeting Attendance

IAC Members/Delegates:

- Eric Wilkinson, ELM
- Daniel Gatti, UCS
- Kathryn Carlson, ABC
- Peter Rothstein, NECEC
- Cammy Peterson, MAPC
- Steve Long, TNC
- Megan Herzog, CLF
- Sandy Taft, National Grid
- Jack Clarke, Mass Audubon
- Austin Blackmon, City of Boston
- Steven Barrett, MIT
- Berl Hartman, E2

Others:

- Daniel Sieger, Assistant Secretary of Environmental, EEA
- Hong-Hanh Chu, EEA
- Kurt Gaertner, EEA
- Eve Schluter, EEA/MEPA
- Marty Suuberg, Commissioner, MassDEP
- Sharon Weber, MassDEP
- Will Space, MassDEP
- Joanna Troy, DOER
- Will Lauwers, DOER
- Ian Finlayson, DOER
- Matt Rusteika, DOER
- Megan Wu, DPU
- Dan Licata, DPU
- Amy Laura Cahn, CLF

# Questions for IAC Discussion on the Comprehensive Energy Plan Scope

## Modeling Energy Demand

The Comprehensive Energy Plan must include “reasonable projections of the Commonwealth’s energy demands for electricity, transportation, and thermal conditioning.”

1. How many years into the future should these reasonable projections extend? (e.g. five year projection or projections until 2025 or 2030).
2. What are important datasets that should be considered for sector projections, electricity, transportation, and thermal conditioning?
3. Is there any specific modeling that should be completed for each sector? To integrate the sectors?
4. How do you see this modeling integrate with other EEA demand predictions, including the Clean Energy and Climate Plan?

## Impacts on Energy Demand

5. Please identify any market structures that may impact energy demand that you feel DOER should investigate as part of the CEP scope (i.e. wholesale and retail electricity markets, business models for transportation and thermal conditioning)
6. Please identify any regulatory or policy structures that may impact energy demand that you feel DOER should investigate as part of the CEP scope (i.e. electrification of transportation and thermal conditioning, increasing distributed generation).
7. Are there any additional aspects of energy demand change that DOER should investigate?

## Strategies for Meeting Energy Demand

8. What additional strategies for meeting demand should DOER investigate that complement the strategies identified in the [2015 Update of the Clean Energy and Climate Plan for 2020](#)?

## Proposal for GWSA IAC Subcommittees

Purpose/Scope: Establish four “technical” subcommittees designed to give substantial technical input to EEA regarding the content of the next 5-yr CECP Update (for 2030; due by 12/31/2020), up to and potentially including, drafts chapters/sections of the Update:

- Electricity
- Buildings
- Transportation
- Natural Systems (land use, etc.)

Staffing/Logistics: Each subcommittee would be chaired by an IAC member. Subcommittee members would be IAC Members or their designees with the option of staffing by one or more EEA or DEP staff. Meetings would be held at either IAC member offices or EEA/DEP spaces (and open to the public for observation, like IAC meetings, if such access is required). Subcommittee logistics (setting meetings/sending invites, agenda drafting and execution, note taking, etc.) would be handled by a “Subcommittee Chair” appointed by a simple majority vote of subcommittee members.

Periodicity: Each subcommittee would meet at least once or twice between each scheduled (bi-monthly) IAC meeting in 2018. (This may depend, in part, on whether the IAC revises the topics/schedule of topics currently list for next year’s meetings as of October 26, 2017.)

Work Product: Each subcommittee would be charged with circulating to the IAC a written report-out (even if only a bullet-point summary) at least 1 week prior to each IAC meeting, so the full IAC can consider the info and then make recommendations.

IAC Direction/Adoption: The IAC would give direction to subcommittees on discussion questions and subjects. The IAC would encourage subcommittees to be thoughtful, innovative and creative in their responses and encouraged to explore related topics that may arise in the course of their discussions. The IAC would consider, amend and adopt as its own the various subcommittee recommendations by simple majority vote that would be reported to the Secretary as “the recommendation of the IAC.”

## GWSA IAC 2017-2018 Work Plan for 2030 Plan

(Working document. Timeline may need to shift.)

Version: 12/19/17

Date	Meeting Focus	Goals and Questions for IAC
October 19, 2017	* IAC workplan in context of EEA's approach to developing the 2030 Plan.	* Gather IAC feedback on the 2030 Plan and emissions limit approach and develop a formal workplan for IAC engagement during 2017-2018: 1. Any feedback or suggestions on the approach to 2030 emissions limit and 2030 Plan? 2. How would the IAC like to contribute to each meeting (e.g. presentation on specific topic)? 3. How else would the IAC like to be involved in the development of the 2030 Plan and 2030 emissions limit? 4. What other topics would the IAC like to discuss in 2018?
December 21, 2017	* Comprehensive energy plan as referenced in E.O. 569  * Revised IAC work plan and next steps	* Gather IAC feedback on the scope of the energy plan.  * Obtain IAC interest in preparing for each upcoming IAC meeting in 2018.
February 15, 2018	* 2030 emissions limit discussion  * Proposed policy evaluation framework.  * Transportation Sector emissions, policies, and projections: Vehicles and Fuels & Regional transportation initiatives and policy options	* Gather IAC feedback on setting a 2030 emissions limit.  * Gather IAC feedback on the policy evaluation framework.  * Gather IAC feedback on how to close the gap between projected Transportation Sector emissions and where we need to be in order to meet the 2050 emissions limit. <u>Special focus for working group:</u> 1. What strategies can MA pursue to reduce GHG emissions from medium/heavy duty vehicles, especially within the Commonwealth borders? 2. What regional policies should MA partake in and how could the Commonwealth address challenges in their implementation?
April 19, 2018	* 10-Year Progress Report scope and content.	* Gather IAC feedback on the content of the 10-Year Progress Report, specifically: 1. What accomplishments should EEA highlight in the report? 2. What areas for improvement should EEA highlight in the report? 3. Besides feedback on content, how else would the IAC like to contribute to the report?
June 21, 2018	* Transportation Sector emissions, policies, and projections: Land Use & Development          * Nature-based solutions for GHG reduction.	* Gather IAC feedback on how to close the gap between projected Transportation Sector emissions and where we need to be in order to meet the 2050 emissions limit. <u>Special focus for working group:</u> 1. How can the Commonwealth enhance the tracking of development and Smart Growth within our borders? 2. How can Massachusetts influence land-use decisions to support the transition to a low-carbon economy?  * Gather IAC suggestions and feedback on how to include more nature-based solutions in the 2030 Plan. <u>Special focus for working group:</u>

## GWSA IAC 2017-2018 Work Plan for 2030 Plan

(Working document. Timeline may need to shift.)

Version: 12/19/17

Date	Meeting Focus	Goals and Questions for IAC
		<ol style="list-style-type: none"> <li>1. In addition to the current tree planting and retention policy, what are other potential strategies with co-benefits that can reduce GHG emissions, capture carbon, and improve communities' resiliency during severe climate change events?</li> <li>2. What are good metrics to measure co-benefits of nature-based solutions for GHG reduction, especially regarding resiliency, cost-savings, and ecosystem services?</li> </ol>
August 16, 2018	* Electric and Non-Energy Sector emissions, policies, and projections.	<p>* Gather IAC feedback on how to close the gap between projected Electric and Non-Energy Sector emissions and where we need to be in order to meet the 2050 emissions limit.</p> <p><u>Special focus for working group:</u></p> <ol style="list-style-type: none"> <li>1. What initiatives can be taken to help both the utilities and customers integrate and optimize distributed energy resources (DERs) on the distribution grid?</li> <li>2. What new cost effective initiatives can be taken to help change consumption behavior and reduce peak demand?</li> </ol>
October 18, 2018	* Building Sector emissions, policies, and projections.	<p>* Gather IAC feedback on how to close the gap between projected GHG Building Sector emissions and where we need to be in order to meet the 2050 emissions limit.</p> <p><u>Special focus for working group:</u></p> <ol style="list-style-type: none"> <li>1. What are new and innovative ways to promote electrification and renewable thermal use of space heating in buildings, and how can you and others support those efforts?</li> <li>2. Where are opportunities to link GHG reduction policies in the building sector to solutions in other sectors (e.g. electrification of residential space heating and personal travel, building designs that incorporate natural systems)?</li> </ol>
Mid-November or early December 2018	* 10-Year Progress Report final draft.	<p>* Gather additional IAC feedback on the 10-Year Progress Report, specifically:</p> <ol style="list-style-type: none"> <li>1. Has EEA adequately addressed IAC's suggestions on the 10-Year Progress Report content and scope?</li> <li>2. What else should be included and/or highlighted in the report?</li> </ol>