

Getting to Net Zero Task Force

Agenda January 28

6:00 pm **Welcome and Introductions**

6:15 pm **Overview**

- Background
- Overview of Ongoing Cambridge Initiatives

6:35 pm **Task Force Scope**

- Mission
- Refer to 'Topics to be addressed' [p. 3]

7:10 pm **Task Force Process**

- Proposed Work Plan [p. 4]
- Proposed Working Groups:
 - Residential
 - Commercial, including Labs/ Institutional
 - Renewables and District Energy

7:35 pm **Next Steps**

7:45 pm **Public Comment**

8:00 pm **Adjourn**

Task Force Charge

- Reduce greenhouse gas emissions from the built environment
- Improve energy efficiency and conservation in existing and new buildings
- Support renewable energy generation both on- and off- site
- Best practices to engage and educate users and influence occupant behavior

Related Cambridge Initiatives

- Climate Protection Action Committee
 - 2020 goals for GHG and EUI reduction
- Compact for a Sustainable Future
 - Building Energy Subcommittee
- Kendall Square EcoDistrict
 - District energy analysis
- MLK School: Targeting Net Zero
- Building Energy Disclosure Ordinance

Topics to be addressed

Building Energy Use

- Existing and planned building stock by class, type, size, sector
- Residential, commercial, industrial, and institutional buildings
- Labs, wet and dry
- Energy Use and Management systems
- Building technologies
- Review, analysis, and verification of data

Renewables and District Energy Systems

- Existing and future renewable energy generation technologies
- Existing district systems
- District Energy systems
- Electric and thermal storage

Topics to be addressed

Renewable Energy and Carbon Offsets

- Certifiable renewable energy and carbon offset schemes
- Consider local, i.e. Cambridge, near such as Boston metropolitan area, statewide and regional
- Understand when they would be allowable, e.g. is it last resort after all energy efficiency and on-site renewables opportunities have been implemented
- Understand potential market mechanisms

Planning Approaches

- Microclimate considerations
- Green Infrastructure
- Heat Island and surface albedo effects
- EcoDistricts
- Zoning Issues relevant to community shared resources (e.g. solar or infrastructure)
- Zoning “obstructions” that need to be removed to enable community resources and commercialization
- Planning for shared use of public right of ways

Topics to be addressed

Policy

- Future Planning and growth projections
- General plan
- Policy levers and incentive tools, local and State
- Energy and Renewable Policy
- Role of Government, Utility, and other groups

Economics and Finance

- Economic analysis and forecasting
- Financing mechanisms, public-private partnerships
- Affordability

Proposed Work Plan

Scope	Schedule	Lead Group
Phase 1, January – April 2014		
Task Force and Staff Kickoff Meeting - Review scope and recommendations - Confirm and populate Working Groups - Engage volunteers - Clarify, confirm consultant scope	Jan-Feb 2014	All TF, Staff
Current State Assessment - Buildings, Technologies - Policy	Feb – Mar 2014	All TF, WGs Staff Consultant
Public Workshop #1 - Current state - Generate possible solutions	April 2014	TF, WGs Staff
Phase 2, April – July 2014		
Opportunity Identification and Analysis - Energy Use and Management - Renewable Energy Generation	Apr – Jul 2014	All TF, WGs Staff Consultant
Economic, Financial, Legal Analysis	Apr – Jul 2014	TF, Policy and Econ WGs, Staff Consultant
Public Workshop #2 Present opportunities and analysis for feedback	June 2014	TF, WGs Staff
Phase 3, August 2014 – January 2015		
Policy Framework	Aug – Oct 2014	TF, Policy and Econ WG lead Staff Consultant
Roadmap	Sept – Dec 2014	All TF, WG Staff Consultant
Public Workshop #3	November 2014	TF, WGs Staff
Stakeholder Presentations	Nov – Dec 2014	TF, Staff
Council Adoption	January 2015	TF, Staff