



CAPE COD
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Ocean Management Planning DCPC

**Overview for the Policy Committee
Cape Cod Commission Staff**

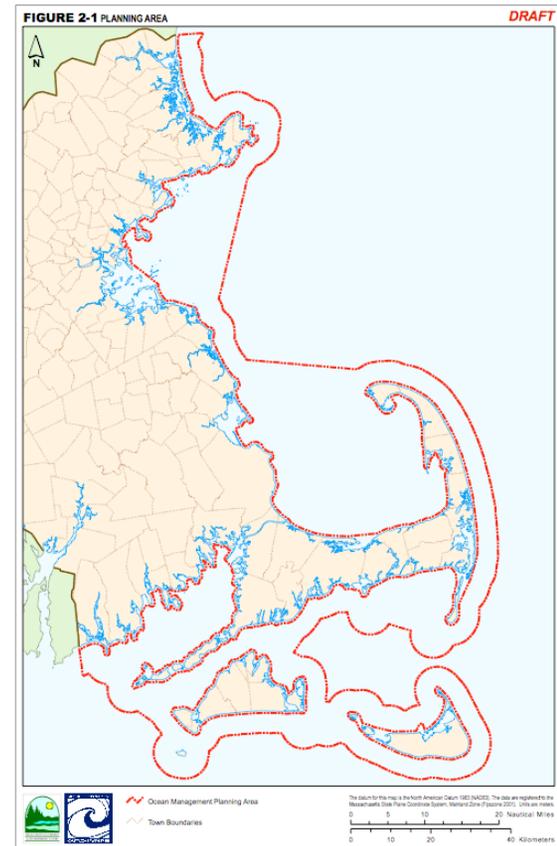


July | 29 | 2010

Ocean DCPC Context



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Ocean DCPC Context



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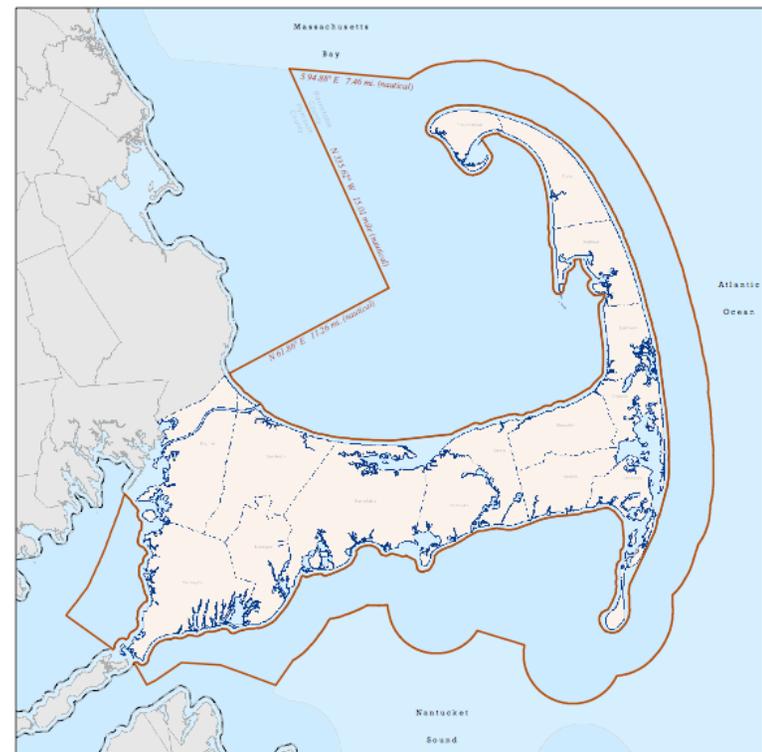
- Massachusetts promulgated the Ocean Management Plan on December 31, 2009
- Massachusetts OMP planning area
- OMP allows certain uses in ocean waters, including a cap of 24 wind turbines
- OMP charges to RPAs:
 - Regulate renewable energy
 - Determine appropriate scale



Ocean DCPC Nomination



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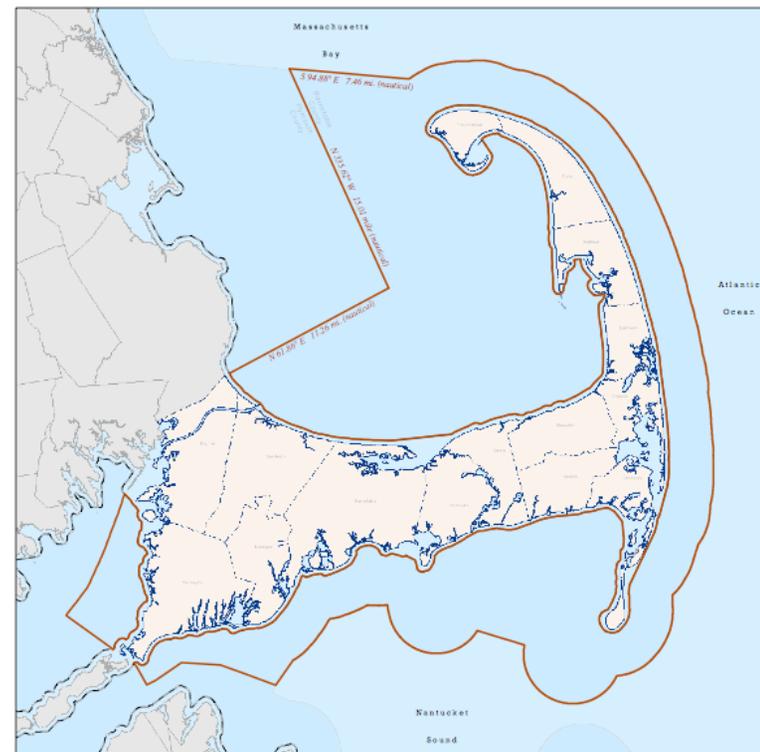


Ocean DCPC Nomination



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- County Commissioners nominated December 16, 2009
- Cape Cod Commission accepted Nomination for Consideration at January 21, 2010 CCC meeting
- 60 day hearing period



Ocean DCPC Public Hearings Overview



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Ocean DCPC Public Hearings Overview



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Subcommittee held five public hearings:

- February 11, Dennis
- February 22, Eastham
- February 23, Barnstable
- February 24, Bourne
- February 25, Provincetown



Ocean DCPC Public Hearings Overview



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- Public comment – general support for designation
- Subcommittee met 2/23/10, 2/25/10, and 3/2/10: voted to recommend designation
- March 11, 2010, Cape Cod Commission voted unanimously to forward nomination to AOD for designation
- April 21, 2010, AOD voted unanimously to designate the district



Ocean DCPC Ordinance Summary



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Ocean DCPC Ordinance Summary



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General – purposes of the district

- Address charge in OMP to regulate renewable energy projects
- Give towns ability to establish criteria for determining appropriate scale of those projects
- Establish procedures for review of turbines and other allowed uses



Ocean DCPC Ordinance Summary



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- Background - procedural history including nomination, public hearings, written correspondence received, etc.
- Written description of the boundary – district forms a coherent whole



Ocean DCPC Ordinance Summary



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- Reasons for designation
 - Natural Resources
 - Community Character/Historic/Archaeological Resources
 - Existing and Potential Economic Development Resources
- Regulatory framework



Ocean DCPC Ordinance Summary



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Goals & Interests



Ocean DCPC Ordinance Summary



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Goals & Interests

- Define appropriate scale for renewable energy
- Protect natural, cultural, historic resources
- Plan for impacts to resources protected under the Act
- Support appropriate economic use of resources
- Balance economic development
- Identify use conflicts, possible hazards



Ocean DCPC Ordinance Summary



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Guidelines for Implementing Regulations



Ocean DCPC Ordinance Summary



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Guidelines for Implementing Regulations

- Allow for use of ocean resources for renewable energy, consistent with goals



Ocean DCPC Ordinance Summary



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Guidelines for Implementing Regulations

- Allow for use of ocean resources for renewable energy, consistent with goals
- Consider thresholds for regional review of renewable energy projects



Ocean DCPC Ordinance Summary



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Guidelines for Implementing
Regulations, continued



Ocean DCPC Ordinance Summary



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Guidelines for Implementing Regulations, continued

- Determine appropriate scale for renewable energy projects



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Guidelines for Implementing Regulations, continued

–Determine appropriate
scale for renewable energy
projects

- Protect public trust
- Public safety
- Compatibility with existing uses
- Proximity to shoreline
- Environmental protection
- Community benefit
- Appropriateness of technology and scale



Ocean DCPC Ordinance Summary



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Guidelines for Implementing Regulations, continued

–Consider the following

- Protect ecosystem health
- Impacts to seafloor
- Water quality protection
- Protect above water habitat
- Protect historic resources
- Protect viewsheds
- Protect underwater archaeological resources
- Potential cumulative impacts
- Decommissioning



Ocean DCPC Ordinance Summary



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- Summary – possible impacts to resources exist; need for regulations to protect resources



Ocean DCPC

DCPC Summary



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- Define appropriate scale of renewable energy projects
 - OMP has authorized 24 turbines
 - Where do they go?
 - What is appropriate scale?
 - Configuration?
- Sand & Gravel Mining
- Cables & Pipelines



Ocean DCPC Tools/Resources



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- Opportunity to refine work in OMP for Cape Cod



Ocean DCPC Tools/Resources



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- Opportunity to refine work in OMP for Cape Cod
- Marine Spatial Planning

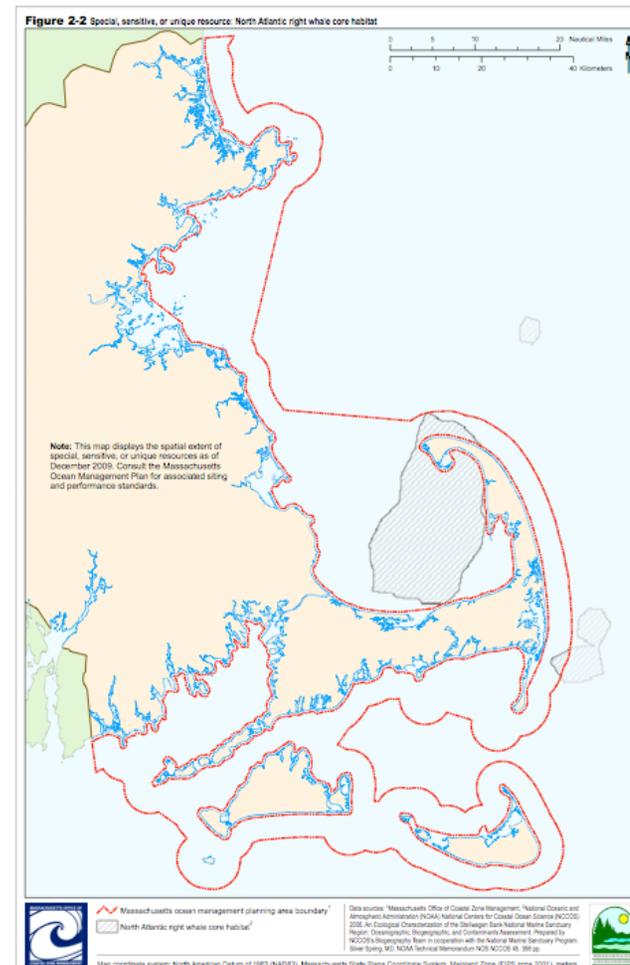


Ocean DCPC Tools/Resources



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- Opportunity to refine work in OMP for Cape Cod
- Marine Spatial Planning
- Extensive maps of resources
 - Right whales

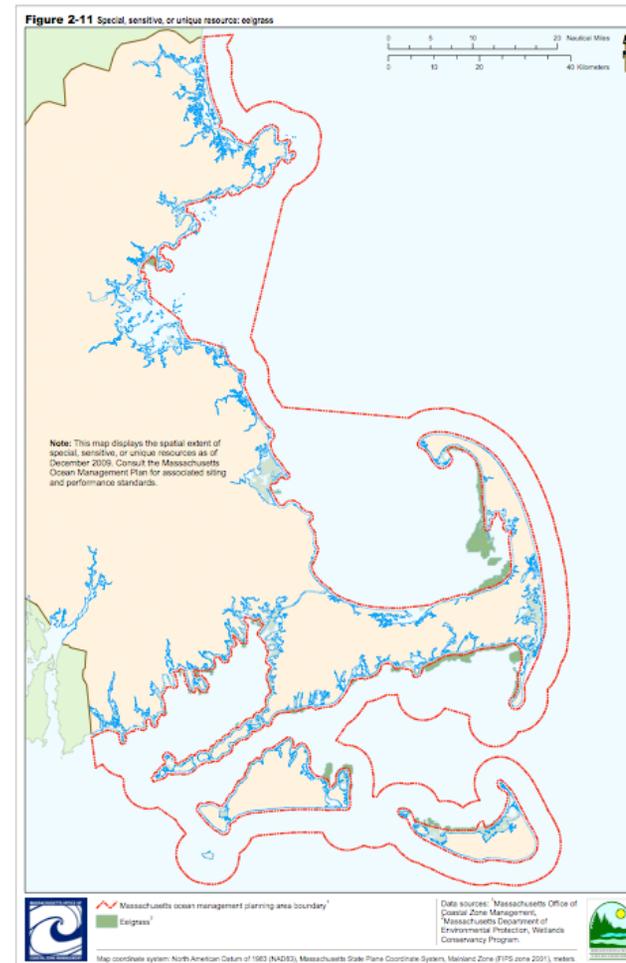


Ocean DCPC Tools/Resources



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- Opportunity to refine work in OMP for Cape Cod
- Marine Spatial Planning
- Extensive maps of resources
 - Right whales
 - Eelgrass

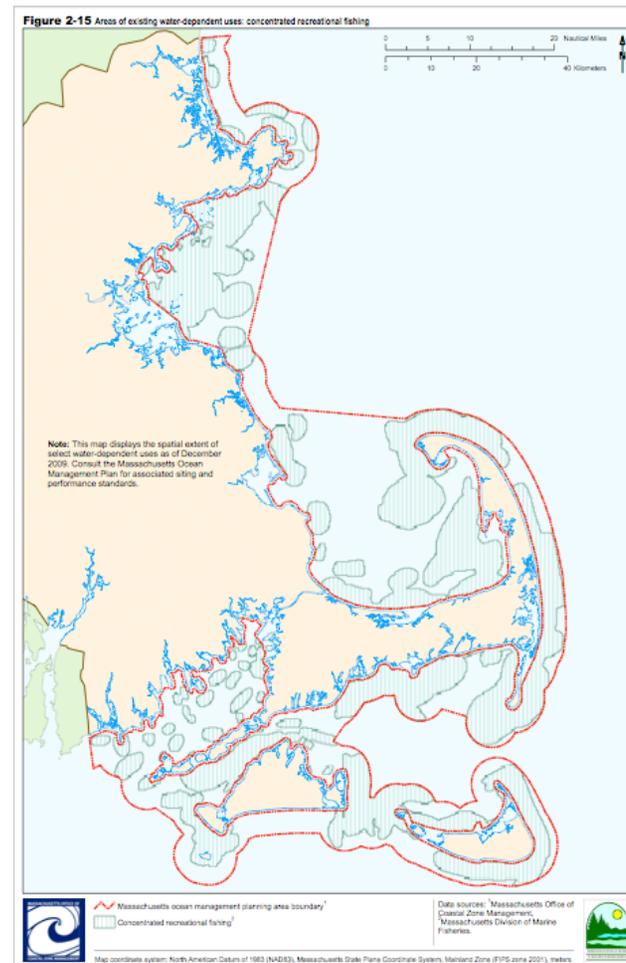


Ocean DCPC Tools/Resources



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- Opportunity to refine work in OMP for Cape Cod
- Marine Spatial Planning
- Extensive maps of resources
 - Right whales
 - Eelgrass
 - Recreational Fishing

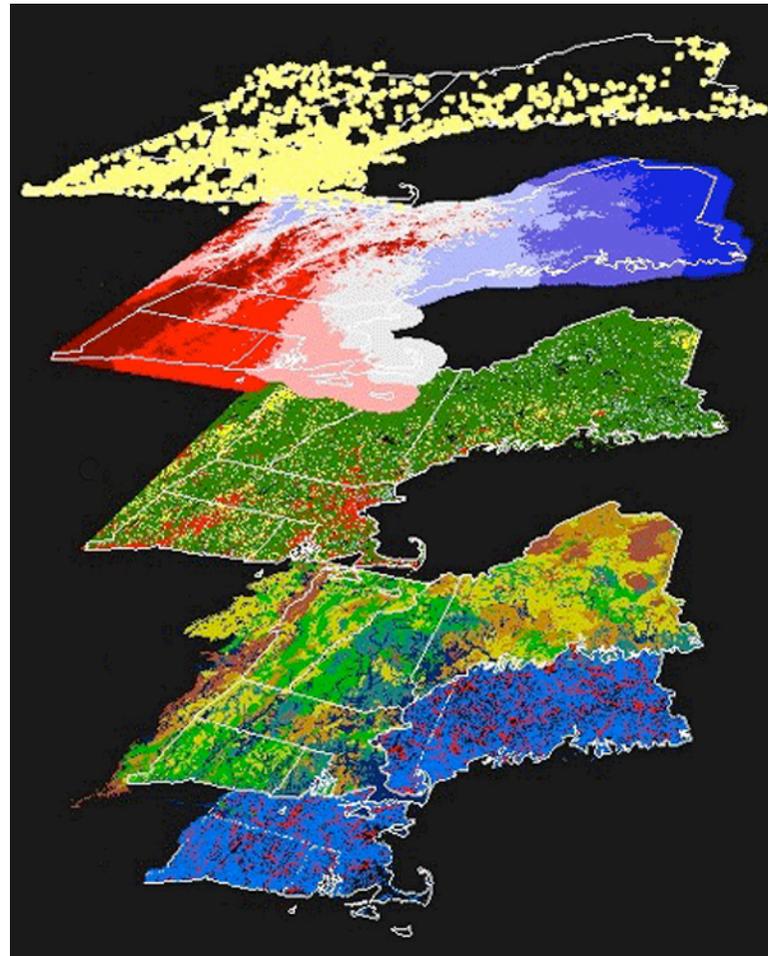


Ocean DCPC Tools/Resources



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- Opportunity to refine work in OMP for Cape Cod
- Marine Spatial Planning
- Extensive maps of resources
 - Right whales
 - Eelgrass
 - Recreational Fishing
- CCC GIS tools
 - layers

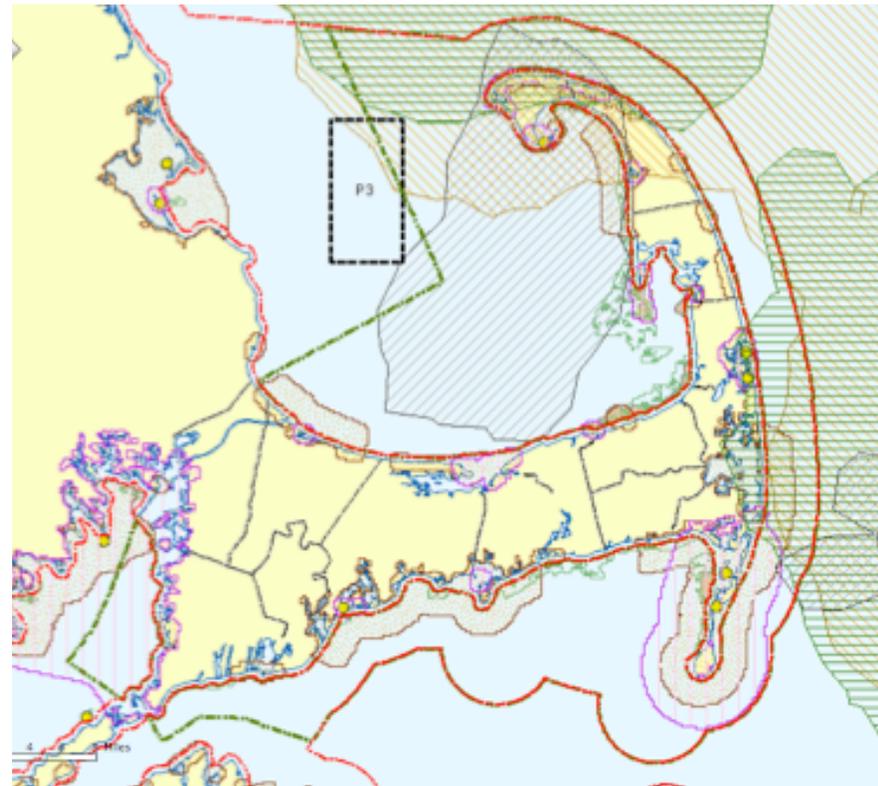


Ocean DCPC Tools/Resources



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- Opportunity to refine work in OMP for Cape Cod
- Marine Spatial Planning
- Extensive maps of resources
 - Right whales
 - Eelgrass
 - Recreational Fishing
- CCC GIS tools
 - layers
 - data in combination



Ocean DCPC Tools/Resources



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- Examine specific data
 - Refine, ID data gaps
 - Examine needs/gaps (RE)
- Generate Visual Assessment data



Visual Impact Assessment Overview



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- **Hired consultant to assist with developing methodology**
- **Identified multi-step process**
- **Goal:**
 - DRI thresholds
 - methodology for developers to follow
 - performance standards, and,
 - mitigation options
- **Initial steps:**
 - Classify landscape
 - Map potential viewsheds
 - Establish public opinion/perception

Visual Impact Assessment Landscape Similarity Zones



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- Classify 6-8 broad zones Capewide
- Use these to establish prototypical viewpoints
- Landscape zones rated based on sensitivity/number of users



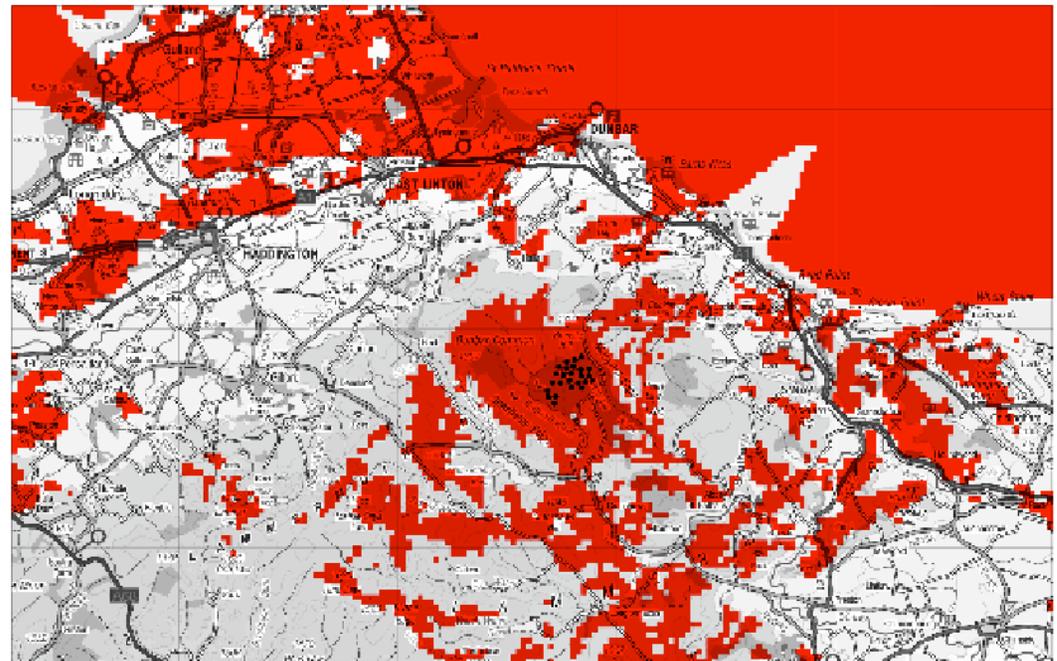
Visual Impact Assessment

Viewshed mapping



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- Establish potential Zone of Visual Influence (ZVI)
- Maps where a given project can be seen – extent of potential impact
- Using test case to:
 - establish methodology
 - gather necessary data for future analysis
 - Informs rating of landscape sensitivity



Visual Impact Assessment

Public preference/perception



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- Establishing visitor/resident sensitivity to ocean turbines
- Create prototypical views of turbines at varying distances from shore
- Conduct Opinion Poll:
 - Beaches/public viewpoints in summer/fall
 - On-line survey

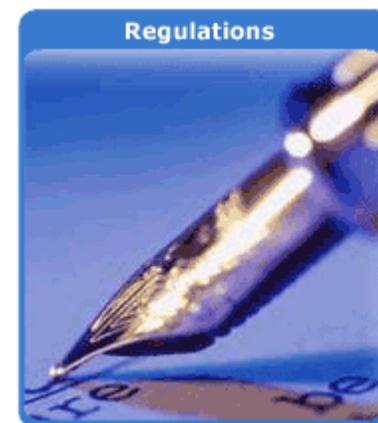
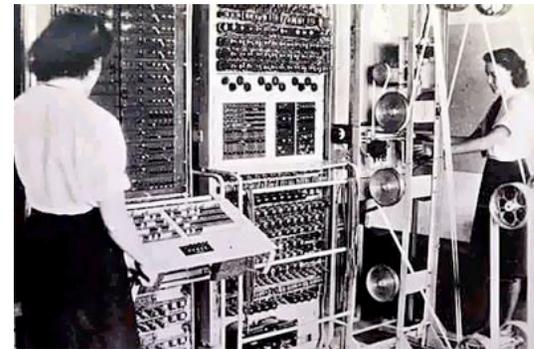


Visual Impact Assessment next steps...



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- Analyze data/results
- Professional panel review of findings
- Coordinate with Policy and Technical Advisory Workgroups
- Incorporate into thresholds, standards as appropriate



Ocean DCPC Process



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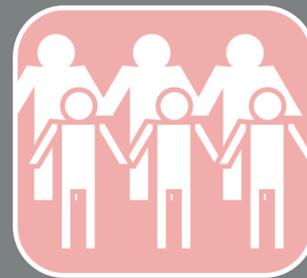
Assembly of Delegates



Policy
Committee



Technical Advisory
Committee



Stakeholders
Committee



Municipalities

Ocean DCPC Process



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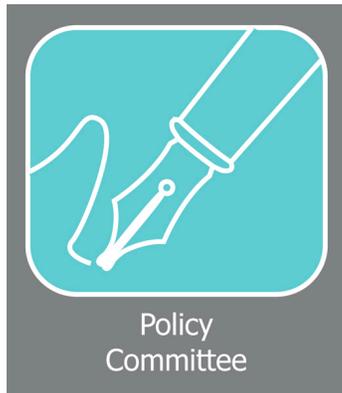
Assembly of Delegates

- Designated DCPC
- Adopt implementing regulations

Ocean DCPC Process



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Policy Committee

- Oversee process
- Make recommendations to the Cape Cod Commission
- Mostly selectmen
- Ex officio
 - Paul Niedzwiecki
 - Neighboring RPAs
 - Towns represented by staff

Ocean DCPC Process



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Technical Advisory Workgroup

- Specialists in 3 fields
 - Renewable Energy
 - Visual Assessments
 - Natural Resources
- Prepare draft plan that responds to DCPC

Ocean DCPC Process



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Technical Advisory Workgroup

- Renewable Energy

Dan MacDonald, UMass Dartmouth

Nils Bolgen, Mass Clean Energy Center

Joe Soares, Senior Power Supply Planner, Cape Light Compact

Joe Feraci, Interconnection Specialist, NSTAR

Ryan Christenberry, Planner, CCC

Dan Dray, Economic Development Officer, CCC

Geoff Cowles, SMAST/UMass Dartmouth (TBD)

Peter Friedman, Mechanical Engineer, UMass Dartmouth (TBD)

Ray Laoulache, Mechanical Engineer, UMass Dartmouth (TBD)

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Technical Advisory Workgroup

- Visual Assessments

Richard Smardon, PhD, RLA, SUNY Syracuse

Sharon Rooney, Chief Planner, CCC

Phil Dascombe, Senior Community Design, CCC

Sarah Korjeff, Historic Preservation Specialist, CCC

Ocean DCPC Process



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Technical Advisory Workgroup

- Natural Resources

Walter Barnhardt, USGS

Pat Hughes, Provincetown Center for Coastal Studies

Trevor Lloyd-Evans, Manomet Center for Cons Sciences

Steve McKenna, Coastal Zone Management

Jo Ann Muramoto, Barn. Cty Coastal Resources Comm.

Matt Pelikan, The Nature Conservancy

Megan Tyrrell, Cape Cod National Seashore

Heather McElroy, Natural Resources Specialist, CCC

Andy Walsh, Coastal Resources Specialist, CCC

Ocean DCPC Process



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Stakeholders

- To be determined
- Invited and Open Invitation by press release
- Engaged and convened as focus group

Ocean DCPC Process



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Municipalities

- May adopt regulations at conclusion of process

APRIL 21 2010



DCPC designated by a vote of the Assembly of Delegates April 21, 2010



Ocean DCPC Process

NOVEMBER - DECEMBER 2010



- Policy Committee moderates feedback/discussion on draft plan findings and recommendations
- Stakeholders & Public engaged
- Direction to technical advisory group



3 PUBLIC WORKSHOPS

Ocean DCPC Guiding Principles



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- DCPC Guidelines define and direct work for DCPC
- Guiding Principles drafted in plainer language
- Policy Committee review, discuss, endorse Guiding Principles



Ocean DCPC Guiding Principles



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- The goal of the DCPC planning process is to achieve consensus on the appropriate location and scale of development in Cape Cod ocean waters.
- The planning process will include participation by all interested parties and should serve as a Cape Cod model for community-level planning.
- Cumulative environmental impacts should be considered in making decisions about future uses.
- Economic impacts should be considered in evaluating proposed uses.
- At a minimum, the Massachusetts Ocean Management Plan, the Barnstable County Regional Policy Plan and Local Comprehensive Plans should be used as guides in the planning process.

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Guiding Principles



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- The resulting plan and regulations should allow for renewable, ocean-based energy development that does not conflict with existing activities that support the regional economy.
- Resource management should have priority in the planning process.
- The plan and regulations should protect Special, Sensitive, or Unique (SSU, as defined in the Massachusetts Ocean Management Plan) resources.
- The plan and regulations should consider protecting natural resources and ecosystems in the district from actions that may compromise their natural functions and viability.
- The plan and regulations should consider protecting historic, tribal and community character resources in the district from actions or activities that may compromise or adversely impact their integrity.

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Guiding Principles



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- The plan and regulations should consider the protection of existing and future economic benefits from the ocean.
- The plan and regulations should consider the prevention of conflicts between new activities in ocean waters and existing uses.
- The plan and regulations should consider the maintenance of public safety.
- The plan and regulations should consider accommodating activities that may enhance economic opportunities from wind/tidal/current resources existing within the district.
- The plan should recognize the importance of renewable energy development to our region and nation, and should seek to successfully balance renewable energy development with environmental protection.
- Proposed uses should demonstrate that adequate shore-side infrastructure exists or can be provided to serve the proposed use while minimizing impacts to natural resources or community character.

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Additional Resources



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Website: www.capecodcommission.org/oceanplanning

Drafts of documents

Presentations

Minutes

Maps

Blog: capecodcommission.wordpress.com

In addition to formal opportunities to comment

Moderated