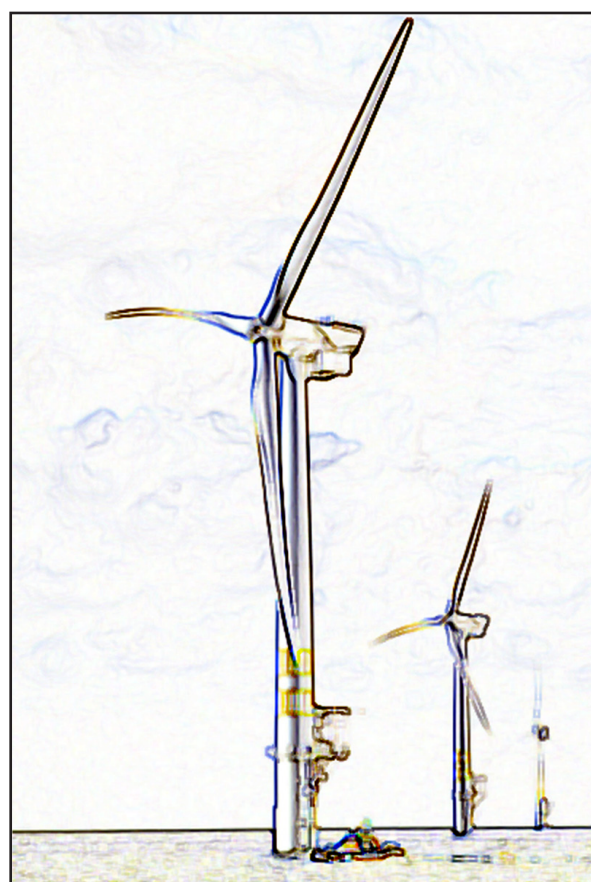
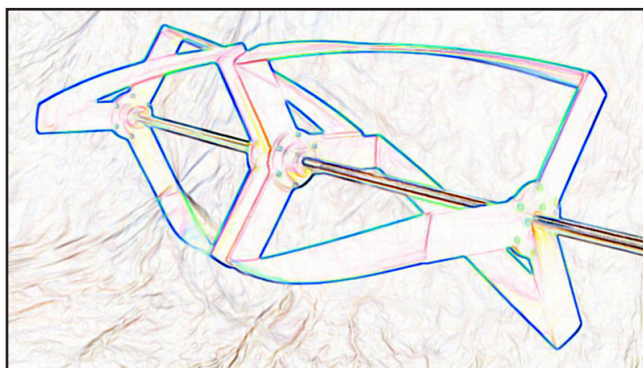




Programmatic Environmental Impact Statement for Alternative Energy Development and Production and Alternate Use of Facilities on the Outer Continental Shelf

Final Environmental Impact Statement
October 2007

Volume I: Executive Summary through Chapter 4



OCS EIS/EA
MMS 2007-046

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for Alternative Energy Development and Production
and Alternate Use of Facilities
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**Final Environmental Impact Statement
October 2007**

Volume I: Executive Summary through Chapter 4

**U.S. Department of the Interior
Minerals Management Service**

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NOTATION

ACRONYMS AND ABBREVIATIONS

AC	alternating current
ACHP	Advisory Council on Historic Preservation
ACS	American Cetacean Society
AEAU	Alternative Energy and Alternate Use [Program]
APCD	air pollution control district
AUV	autonomous underwater vehicle
AWEA	American Wind Energy Association
BLM	Bureau of Land Management
BMP	best management practice
CAA	Clean Air Act
CAAA	Clean Air Act Amendments of 1990
CADHS	California Department of Health Services
CEC	Commission for Environmental Cooperation
CEI	Coastal Environments, Inc.
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERES	California Environmental Resources Evaluation System
CFR	<i>Code of Federal Regulations</i>
CIMAS	Cooperative Institute for Marine and Atmospheric Studies
CMP	coastal management program
CO	carbon monoxide
CO ₂	carbon dioxide
COA	Corresponding Onshore Area
COWRIE	Collaborative Offshore Wind Research into the Environment
CPUC	California Public Utilities Commission
CWA	Clean Water Act
CZMA	Coastal Zone Management Act
DC	direct current
DNREC	Department of Natural Resources and Environmental Control
DOC	U.S. Department of Commerce
DPS	distinct population segment
DTI	Department of Trade and Industry (United Kingdom)
EEZ	Exclusive Economic Zone
EFH	essential fish habitat
EIA	Energy Information Administration
EIS	Environmental Impact Statement
ELF	extremely low frequency

EMF	electromagnetic field
EPAct	Energy Policy Act [of 2005]
EPRI	Electric Power Research Institute
EPU	energy protection unit
ESA	Endangered Species Act
ESP	electric service platform
FAA	Federal Aviation Administration
FCMA	Fishery Conservation and Management Act
FERC	Federal Energy Regulatory Commission
FMC	fishery management council
FMP	fishery management plan
FOSC	Federal On-Scene Coordinator
FR	<i>Federal Register</i>
FWPCA	Federal Water Pollution Control Act
GMFMC	Gulf of Mexico Fishery Management Council
GOM	Gulf of Mexico
GSA	Geographic Society of America
GSMFC	Gulf States Marine Fisheries Commission
HAPC	habitat area of particular concern
HDD	horizontal directional drilling
HMR	Hazardous Materials Regulation
HMTA	Hazardous Materials Transportation Act
ICE	internal combustion engine
ICNIRP	International Commission on Non-ionizing Radiation Protection
IPCC	Intergovernmental Panel on Climate Change
LCWCRTF	Louisiana Coastal Wetlands Conservation and Restoration Task Force
LIOWP	Long Island Offshore Wind Park
LNG	liquefied natural gas
LOOP	Louisiana Offshore Oil Port
LPB	Lake and Peninsula Borough
LWR	light water reactor
MAFMC	Mid-Atlantic Fishery Management Council
MARAD	Maritime Administration
MBES	multibeam echosounder
MMPA	Marine Mammal Protection Act
MMS	Minerals Management Service
MPA	marine protected area
MPRSA	Marine Protection Research and Sanctuaries Act
MSD	marine sanitation device
MSFCMA	Magnuson-Stevens Fishery Conservation and Management Act

N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAS	National Academy of Sciences
NAST	National Assessment Synthesis Team
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NIEHS	National Institute of Environmental Health Sciences
NIH	National Institutes of Health
NMFS	National Marine Fisheries Service
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOSC	U.S. Naval Ocean Systems Center
NPDES	National Pollutant Discharge Elimination System
NPFMC	North Pacific Fishery Management Council
NPS	National Park Service
NREL	National Renewable Energy Laboratory
NTL	Notice to Lessees
NVIC	Navigation and Vessel Inspection Circular
NWA	National Wilderness Area
NWR	National Wildlife Refuge
O ₃	ozone
OCS	Outer Continental Shelf
OCSLA	Outer Continental Shelf Lands Act
OTEC	Ocean Thermal Energy Conversion
OWC	oscillating water column
PAH	polynuclear aromatic hydrocarbon
PAM	passive acoustic monitor
Pb	lead
PCB	polychlorinated biphenyl
PM ₁₀	particulate matter less than 10 microns in diameter
PM _{2.5}	fine particulates less than 2.5 microns in diameter
PSD	Prevention of Significant Deterioration
PTE	potential to emit
PV	photovoltaic
RCRA	Resource Conservation and Recovery Act
RICS	Royal Institution of Chartered Surveys
ROD	Record of Decision
ROW	right-of-way
RUE	right-of-use and easement
SBES	single-beam echosounder

SECA	Solid State Energy Conversion Alliance
SHPO	State Historic Preservation Office
SO ₂	sulfur dioxide
SO _x	sulfur oxides
SOFAR	Sound Fixing and Ranging (Layer)
SPL	sound pressure level
THPO	Tribal Historic Preservation Office
USACE	U.S. Army Corps of Engineers
USC	U.S. Code
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
USDOC	U.S. Department of Commerce
USDOD	U.S. Department of Defense
USDOE	U.S. Department of Energy
USDOI	U.S. Department of the Interior
USDOT	U.S. Department of Transportation
USEPA	U.S. Environmental Protection Agency
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VCS	voltage source converter
VOC	volatile organic compound
WEC	wave energy conversion
WTG	wind turbine generator
ZOI	zone of influence

UNITS OF MEASURE

µm	micrometer(s)	L	liter(s)
µPa	microPascal	lb	pound(s)
µPa-m	microPascal-meter		
		m	meter(s)
bbl	barrel(s)	m ³	cubic meter(s)
bcf	billion cubic feet	mg	milligram(s)
bpd	barrel(s) per day	mG	milliGauss
Btu	British thermal unit	mi	mile(s)
		mi ²	square mile(s)
°C	degree(s) Centigrade	min	minute(s)
		mL	milliliters
d	day(s)	mph	mile(s) per hour
dB	decibel(s)	ms	millisecond(s)
dB(A)	decibel(s) A-weighted	MT	metric ton(s)
DWT	deadweight ton(s)	MW	megawatt(s)
		MW(e)	megawatt(s), electric
°F	degree(s) Fahrenheit	MWh	megawatt hour(s)
ft	foot (feet)		
		Pa	Pascal(s)
gal	gallon(s)	ppb	part(s) per billion
		ppm	part(s) per million
h	hour(s)	ppt	part(s) per thousand
ha	hectare(s)		
hp	horsepower	rpm	revolution(s) per minute
Hz	hertz		
		s	second(s)
in.	inch(es)		
		tcf	trillion cubic feet
kg	kilogram(s)		
kHz	kilohertz	yd ³	cubic yard(s)
km	kilometer(s)	yr	year(s)
km ²	square kilometer(s)		
kV	kilovolt(s)		
kW	kilowatt(s)		
kWh	kilowatt hour(s)		

