

Table 3.2.1-1 Physical Screening and Economic Modeling Results														
Site	No-Action Alternative	Alternatives that Meet Physical Siting Criteria and are Economically Comparable			Non-Geographic Alternatives that are Economically Comparable			Alternatives not selected for further environmental analysis due to Physical Siting Constraints and or Cost						
		Proposed Action at Horseshoe Shoal	South of Tuckerduck Island	Monomoy Shoals	Phased Development <u>a/</u>	Smaller Project	Condensed Array <u>a/</u>	Block Island <u>b/</u>	Cape Ann <u>b/</u>	Boston Outer Harbor <u>b/</u>	Portland Outer Harbor <u>b/</u>	Nantucket Shoals	Phelps Bank	Nauset
Cost of Energy (\$/kwh) <u>c/</u>	NA	\$0.128	\$0.148	\$0.209	NA	\$0.159	NA	\$0.137 <u>c/</u>	\$0.155 <u>c/</u>	\$0.217 <u>c/</u>	\$0.228 <u>c/</u>	\$0.240	\$0.288	\$0.301
Energy Capture (MWh/year/ 130WTGs)	NA	1,608,600	1,688,000	1,172,700	NA	804,300	NA	1,610,900	1,515,800	1,600,300	1,430,300	1,046,100	1,035,200	1,184,100
Capacity Factor	NA	39.24%	41.17%	28.60%	NA	39.24%	NA	39.29%	36.97%	39.04%	34.89%	25.52%	25.25%	28.88%
Physical Site Screening Criteria <u>d/</u>														
Water depth > 100 feet (30 meters)									X	X	X		X	X
Extreme storm wave (ESW) height > 20 feet (6.1 meters) high in 50 feet (15.2 meters) of water depth;			X	X				X	X	X	X	X	X	X
Areas with rock or bedrock near surface								X	X	X	X			
Distance to onshore transmission system > 31 miles (50 kilometers)												X	X	
The availability of technology to develop the site (development of floating platform technology for use in water depths > 150 feet (45 meters) is beyond the milestones scheduled for project development).										X	X			X
<p>NA = Not Available <u>a/</u> Economic issues with respect to Phased Development and Condensed Array Alternative are discussed in Section 3. <u>b/</u> Economic model does not take into account added costs associated with construction of a foundation in rocky areas and or installation of interconnecting lines in rocky areas and is <u>not</u> representative of complete project costs. <u>c/</u> Results from the MMS analysis, which were calculated with cost estimates that wind energy developers might rely upon today, should not be construed as a profitability forecast intended to either endorse or condemn the action proposed by the applicant. Economic conditions will continue to evolve over time, changing the outlook for the project. <u>d/</u> Physical Siting Criteria whereby sites were not selected for further environmental analysis.</p>														