4185. Barbara McMullon - Public comment

Benefits to Block Island from Deepwater Wind Block Island Wind Farm

- In aggregate, Block Island will see a savings of approximately $1.3 million per year in fuel costs alone, based on current fuel price. This is a 30% reduction in electricity costs
- The Town of New Shoreham will realize about $120,000 in annual savings, or 34% of their electric bill.
- A typical residential customer, using 500 kWh per month, will save $60 per month.
- A small commercial customer, using 700 kWh per month, will save $85 per month.
- Large commercial customers, using 7,500 kWh per month will save $925 per month.
- Nearly all of Block Island's electricity will come from the wind farm and will be emissions free.
- The diesel generators at BIPCO will no longer run, eliminating all of the noise and emissions they produce. This will eliminate the transportation of approximately 1 million barrels of oil to the Island.
- When the wind farm does not create sufficient power to meet Block Island's needs, electricity will flow to the island via the cable.
- Block Islanders will pay for power based on New England energy costs, eliminating the extreme volatility in rates we currently experience.

Notes: These are conservative estimates of the savings that will result because they reflect only the difference in fuel costs and not other savings in operating and maintenance costs that will likely occur when the diesels are no longer run on a regular basis.

See attached sheets for details by customer class.

Savings from Deepwater Wind Block Island Project by Customer Class

Customer Class	Number of Customers	kWh Usage	Current Electricity Costs			Electricity Costs with Deepwater Wind			Savings
			Non-fuel	Fuel	Total	Non-fuel	Fuel	Total	
Residential	1,312	4,027,840	$ 763,584	$ 859,944	$ 1,623,528	$ 763,584	$ 362,506	$ 1,126,090	$ 497,438
Small commercial	321	1,565,838	292,431	334,306	626,737	292,431	140,925	433,356	193,381
Commercial Demand	96	4,103,712	818,016	876,143	1,694,159	818,016	369,334	1,187,350	506,808
Public	1	938,462	136,263	200,362	336,625	136,263	84,462	220,725	115,900
Total	1730	10,635,852	$2,010,294	$ 2,270,754	$ 4,281,048	$2,010,294	$ 957,227	$ 2,967,521	$ 1,313,528
Overall Cost in Cents/kwh			18.90	21.35	40.25	18.90	9.00	27.90	12.35

Purchase Power Cost from Nat. Grid	0.09
BIPCO Fuel Cost	0.2135

Created by the Town of New Shoreham EUTG 7/16/2010

Savings from Deepwater Wind Block Island Project for Residential Customers

	Winter Rates				Summer Rates (Year Round Customers)				Summer Rates (Seasc		
	Current	With DWW	$Savings	%Savings	Current	With DWW	$Savings	%Savings	Current	With DWW	$
Customer Charge	12.38	12.38			12.38	12.38			12.38	12.38	
System Charge	0	0			0	0			22.51	22.51	
Energy Charge	45.5	45.5			119.95	119.95			119.95	119.95	
Fuel Charge	106.75				106.75				106.75		
Purchased Power Cost		45				45				45	
Cable Cost		$ 2.00				$ 2.00				$ 2.00	
Total Bill	$ 164.63	$ 104.88	$ 59.75	-36%	$ 239.08	$ 179.33	$ 59.75	-25%	$ 261.59	$ 201.84	$
Assumptions											
Customer Usage (kWh)	500				500				500		
BIPCo Energy Charge	0.091				0.2399				0.2399		
BIPCO Fuel Charge (FAC)	0.2135				0.2135				0.2135		
National Grid Fuel Charge (Standard Offer Rate)	0.09				0.09				0.09		

Note: These projections of the savings are conservative because they assume that only the fuel costs will change, while in reality there will be savings in other operation costs. These comparisons also do not include the costs of investments such as the distribution upgrade. These costs will not affect the overall savings since they will be

Savings from Deepwater Wind Block Island Project for Small Commercial Customers (Rate

	Winter Rates				Summer Rates (Year Round Customers)				Summer Rates (Seasc		
	Current	With DWW	$Savings	%Savings	Current	With DWW	$Savings	%Savings	Current	With DWW	$
Customer Charge	12.38	12.38			12.38	12.38			12.38	12.38	
System Charge	0	0			0	0			22.51	22.51	
Energy Charge	63.7	63.7			167.93	167.93			167.93	167.93	
Fuel Charge	149.45				149.45				149.45		
Purchased Power Cost		63				63				63	
Cable Cost		$ 2.00				$ 2.00				$ 2.00	
Total Bill	$ 225.53	$ 141.08	$ 84.45	-37%	$ 329.76	$ 245.31	$ 84.45	-26%	$ 352.27	$ 267.82	$
Assumptions											
Customer Usage (kWh)	700				700				700		
BIPCo Energy Charge	0.091				0.2399				0.2399		
BIPCO Fuel Charge (FAC)	0.2135				0.2135				0.2135		
National Grid Fuel Charge	0.09				0.09				0.09		

Note: These projections of the savings are conservative because they assume that only the fuel costs will change, while in reality there will be savings in other operation costs. These comparisons also do not include the costs of investments such as the distribution upgrade. These costs will not affect the overall savings since they will b

Savings from Deepwater Wind Block Island Project for Large Commercial Customers (Rat

	Winter Rates				Summer Rates (Year Round Customers)			
	Current	With DWW	$Savings	%Savings	Current	With DWW	$Savings	%Savings
Customer Charge	18.57	18.57			18.57	18.57		
Demand Charge (est.)	300	300			300	300		
Energy Charge	817.5	817.5			1468.5	1468.5		
Fuel Charge	1601.25				1601.25			
Purchased Power Cost		675				675		
Cable Cost		$ 2.00				$ 2.00		
Total Bill	$ 2,737.32	$ 1,813.07	$ 924.25	-34%	$ 3,388.32	$ 2,464.07	$ 924.25	-27%
Assumptions								
Customer Usage (kWh)	7500				7500			
BIPCo Energy Charge	0.109				0.1958			
BIPCO Fuel Charge (FAC)	0.2135				0.2135			
National Grid Fuel Charge	0.09				0.09			

Note: These projections of the savings are conservative because they assume that only the fuel costs will change, while in reality there will be savings in other operatio costs. These comparisons also do not include the costs of investments such as the distribution upgrade. These costs will not affect the overall savings since they will b