

ENERGYNORTH NATURAL GAS, INC.  
d/b/a NATIONAL GRID NH  
DG 10-041

National Grid NH's Responses to  
Staff's Data Requests – Set #1

Supplemental Response

<b>ORIGINAL</b>
N.H.P.U.C. Case No. <u>DG 10-041</u>
Exhibit No. <u>#5</u>
Witness <u>Pang 1#1</u>
<b>DO NOT REMOVE FROM FILE</b>

Date Received: May 17, 2010  
Request No.: Staff 1-35

Date of Supplemental Response: July 2, 2010  
Witness: Theodore Poe, Jr.

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**REQUEST:** Ref. IV-8. Specify, by demand-side resource and by year, the demand-side management costs included in the SENDOUT model under the resource mix mode. Also provide on the same basis the projected MMBtu savings and number of participating customers.

**SUPPLEMENTAL  
RESPONSE:**

In its initial response to Staff 1-35, the Company inadvertently indicated that resultant MMBtu savings for the resource mix analysis were to be found in Chart IV-D-11. However, Chart IV-D-11 contains the MMBtu savings for the High-Case DSM scenario. There was no summary MMBtu savings chart presented in the Company's filing regarding the resource mix analysis optimizing DSM and traditional gas resources along with the conversion of a portion of the Company's Tennessee long-haul capacity to short-haul from the Marcellus Basin. However, the detailed scenario information was included in Appendix D (Page 76 through Page 81).

Demand-side management cost savings are not found in the filing since there was no resource mix scenario without DSM to calculate comparable costs. That being said, the Company has prepared a comparable run of its Base Case Demand – Design Year excluding the availability of DSM measures, in order to be responsive to Staff. (See Attachment Staff 1-35 (Supp.))

Reduction in Total Resource Costs  
 Base Case Design Year  
 Resource Mix Scenario without DSM vs. Resource Mix Scenario with DSM

Resource Mix Scenario without DSM	2010/11	2011/12	2012/13	2013/14	2014/15
Total Gas Resource Cost	\$116,033,464	\$123,998,279	\$127,339,390	\$130,922,420	\$134,513,641
<u>Total DSM Cost</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total Resource Cost	\$116,033,464	\$123,998,279	\$127,339,390	\$130,922,420	\$134,513,641
Total Gas Customer Requirements (MMBtu)	14,149,800	14,608,800	14,905,000	15,265,200	15,625,300
<u>Total DSM Customer Requirements (MMBtu)</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Annual Customer Requirements (MMBtu)	14,149,800	14,608,800	14,905,000	15,265,200	15,625,300
Average System Cost (\$/MMBtu)	\$8.2004	\$8.4879	\$8.5434	\$8.5765	\$8.6087

Resource Mix Scenario with DSM	2010/11	2011/12	2012/13	2013/14	2014/15
Total Gas Resource Cost	\$113,738,170	\$120,425,264	\$121,730,814	\$123,987,499	\$126,244,940
<u>Total DSM Cost</u>	<u>\$395,557</u>	<u>\$888,583</u>	<u>\$1,923,808</u>	<u>\$1,923,808</u>	<u>\$1,923,808</u>
Total Resource Cost	\$114,133,727	\$121,313,847	\$123,654,622	\$125,911,307	\$128,168,748
Total Gas Customer Requirements (MMBtu)	13,881,700	14,224,700	14,304,300	14,535,800	14,767,200
<u>Total DSM Customer Requirements (MMBtu)</u>	<u>268,100</u>	<u>384,100</u>	<u>600,700</u>	<u>729,400</u>	<u>858,100</u>
Total Annual Customer Requirements (MMBtu)	14,149,800	14,608,800	14,905,000	15,265,200	15,625,300
Average System Cost (\$/MMBtu)	\$8.0661	\$8.3042	\$8.2962	\$8.2483	\$8.2026

DSM Reduction in Requirements (BBtu)					
Program 1 - Residential - 2009	30.200	30.300	30.200	30.200	30.200
Program 1 - C&I - 2009	53.600	53.900	53.600	53.600	53.600
Program 2 - Residential - 2010	30.200	30.300	30.200	30.200	30.200
Program 2 - C&I - 2010	53.600	53.900	53.600	53.600	53.600
Program 2 - Residential - 2010 (Incremental)	21.300	21.400	21.300	21.300	21.300
Program 2 - C&I - 2010 (Incremental)	25.600	25.700	25.600	25.600	25.600
Tier1 - Residential	0.000	60.700	90.500	120.600	150.800
Tier1 - C&I	53.600	107.800	160.900	214.600	268.200
Tier2 - Residential	0.000	0.000	63.900	85.200	106.500
Tier2 - C&I	0.000	0.000	0.000	0.000	0.000
Tier3 - Residential	0.000	0.000	22.800	30.400	38.000
Tier3 - C&I	0.000	0.000	48.000	64.000	80.000
Total	268.100	384.000	600.600	729.300	858.000
DSM Cost Savings By Program					
Program 1 - Residential - 2009	\$213,995	\$211,818	\$185,281	\$207,508	\$223,328
Program 1 - C&I - 2009	\$379,806	\$376,799	\$328,844	\$368,292	\$396,371
Program 2 - Residential - 2010	\$213,995	\$211,818	\$185,281	\$207,508	\$223,328
Program 2 - C&I - 2010	\$379,806	\$376,799	\$328,844	\$368,292	\$396,371
Program 2 - Residential - 2010 (Incremental)	\$150,930	\$149,601	\$130,679	\$146,355	\$157,513
Program 2 - C&I - 2010 (Incremental)	\$181,400	\$179,661	\$157,060	\$175,901	\$189,311
Tier1 - Residential	\$0	\$424,336	\$555,231	\$828,658	\$1,115,163
Tier1 - C&I	\$379,806	\$753,598	\$987,145	\$1,474,544	\$1,983,334
Tier2 - Residential	\$0	\$0	\$392,036	\$585,420	\$787,565
Tier2 - C&I	\$0	\$0	\$0	\$0	\$0
Tier3 - Residential	\$0	\$0	\$139,881	\$208,882	\$281,009
Tier3 - C&I	\$0	\$0	\$294,487	\$439,752	\$591,598
Total	\$1,899,737	\$2,684,432	\$3,684,768	\$5,011,113	\$6,344,893