EEI ESG/Sustainability Template – Section 2: Quantitative Information

Disclaimer: All information below is being provided on a voluntarily basis, and as such, companies may elect to include or exclude any of the topics outlined below and customize the template to their specific needs. The decision to include data for historical and future years is at the discretion of each

Parent Company: *Dominion Energy Inc*
Operating Company(s): *All Companies (Dominion Energy Questar assets not included in data for 2016)*
Business Type(s): *Vertically Integrated Energy*
State(s) of Operation:
State(s) with RPS Programs: *NC*
Regulatory Environment: *Regulated/deregulated*
Report Date: *6/15/2018*

		Baseline1	Baseline2					
Ref. No.	**Refer to the Definitions tab for more information on each metric**	**2000**	**2005**	**2015**	**2016**	**2017**	**Targets**	**Comments, Links, Additional Information, and Notes**
		Actual	*Actual*	*Actual*	*Actual*	*Actual*		
	Portfolio							
1	**Owned Nameplate Generation Capacity at end of year (MW)**	**19,920**	**25,809**	**22,753**	**24,584**	**25,043**		
1.1	Coal	5,992	7,861	4,406	4,406	4,372		
1.2	Natural Gas	2,529	7,074	7,836	9,256	9,297		
1.3	Nuclear	3,253	5,726	5,349	5,349	5,349		
1.4	Petroleum	1,747	3,105	2,160	2,160	2,168		
1.5	Total Renewable Energy Resources	324	2,020	2,976	3,387	3,842		
1.5.1	Biomass/Biogas	0	80	236	236	266		
1.5.2	Geothermal	0	9	0	0	0		
1.5.3	Hydroelectric	1,587	1,931	2,120	2,126	2,126		
1.5.4	Solar	0	0	338	743	1,168		
1.5.5	Wind	0	0	282	282	282		
1.6	Other			15	15	15		Bridgeport Fuel Cell
2	**Net Generation for the data year (MWh)**	**71,510,204**	**97,370,726**	**97,630,530**	**109,709,990**	**102,424,141**		Year 2000 is a ratioed estimate based on station totals
2.1	Coal	40,739,792	25,855,775	21,359,693	21,947,757	15,376,308		
2.2	Natural Gas	1,405,786	11,887,793	29,170,441	38,371,159	37,497,407		
2.3	Nuclear	26,552,901	44,182,025	43,583,876	44,651,666	44,548,239		
2.4	Petroleum	2,321,923	9,963,780	543,304	459,165	435,005		
2.5	Total Renewable Energy Resources	489,802	5,481,354	2,973,216	4,280,243	4,567,182		
2.5.1	Biomass/Biogas	-	2,747,448	*1,088,991*	*1,266,746*	*1,163,454*		
2.5.2	Geothermal	-	2,274,566	-	-			
2.5.3	Hydroelectric	489,802	459,340	*619,846*	*1,332,985*	*876,168*		
2.5.4	Solar	-	-	*499,316*	*925,769*	*1,953,263*		
2.5.5	Wind	-	-	*693,865*	*666,103*	*574,297*		
2.6	Other							
3	**Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters**							
3.1	Total Annual Capital Expenditures (nominal dollars)			$ 9,650,172	$ 4,457,420	$ 5,749,588		
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)			228,458	207,018	112,185		
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)			$ 34,031,000	$ 43,200,000	$ 28,158,538		
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)			14	14	15		
4	**Retail Electric Customer Count (at end of year)**							
4.1	Commercial	202,443	250,515	272,359	273,813	275,136		
4.2	Industrial	805	655	663	654	648		
4.3	Residential	1,855,879	2,037,523	2,252,438	2,275,550	2,298,895		
	Emissions							
5	**GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)**							
5.1	**Owned Generation (1) (2) (3)**	71,537,263	111,685,870	98,309,219	109,072,084	102,076,492		
5.1.1	Carbon Dioxide (CO2)							
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	41,989,458	57,262,200	33,761,475	36,659,419	30,137,002		
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.587	0.513	0.343	0.336	0.295	The company intends to further increase our reliance on cleaner generating technologies, and when combined with the operation of our three nuclear power stations, should result in a reduction of our carbon intensity to 50 percent by 2030. (A new target is under development.)	
5.1.2	Carbon Dioxide Equivalent (CO2e)							
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	42,619,300	58,121,133	34,253,305	37,186,655	30,158,187		
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.596	0.520	0.348	0.341	0.295		
5.2	**Purchased Power (4)**	16,753,741	18,987,726	14,656,975	7,486,404	13,419,239		
5.2.1	Carbon Dioxide (CO2)							
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	12,159,115	13,780,442	10,637,376	5,433,297	9,739,083		
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.73	0.73	0.73	0.73	0.73		
5.2.2	Carbon Dioxide Equivalent (CO2e)							
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	13,604,038	15,418,034	11,901,464	6,078,960	10,898,034		Estimated based on CO_2 Value
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.812	0.812	0.812	0.812	0.812		
5.3	**Owned Generation + Purchased Power**	88,291,004	130,673,596	112,966,194	116,558,488	115,495,731		
5.3.1	Carbon Dioxide (CO2)							
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	54,148,573	71,042,641	44,398,852	42,092,716	39,876,085		
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.613	0.544	0.393	0.361	0.345		
5.3.2	Carbon Dioxide Equivalent (CO2e)							
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	56,223,338	73,539,166	46,154,768	43,265,615	41,056,221		
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.637	0.563	0.409	0.371	0.355		
5.4	**Non-Generation CO2e Emissions**							
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) **(5)**			53,819	42,846	37,841		Subpart DD reported under GHGRP beginning in 2011, represents
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT) **(6)**			803,905	734,745	801,804		Subpart W reported CO2e under the GHGRP for LDCs in WV and OH beginning in 2011. (Excludes natural gas distribution from Dominion Energy Questar assets for 2016 since acquired during 2016). Reported value for 2017 reflects increases due from additional assets. Dominion Energy Questar accounts for 87, 640 MT of the total.
6	**Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)**							
6.1	Generation basis for calculation **(7)**	71,422,359	110,868,443	97,812,907	108,753,991	101,792,351		Electric Generating Units Only
6.2	**Nitrogen Oxide (NOx)**							
6.2.1	Total NOx Emissions (MT)	132,895	101,106	15,361	13,883	10,559		
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.001861	0.000912	0.000157	0.000128	0.000104		
6.3	**Sulfur Dioxide (SO2)**							
6.3.1	Total SO2 Emissions (MT)	372,732	283,213	12,921	9,665	5,490		
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.005219	0.002554	0.000132	0.000089	0.000054		
6.4	**Mercury (Hg)**							
6.4.1	Total Hg Emissions (kg)	2,194	931	54	52	32		
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	0.0000307	0.0000084	0.0000005	0.0000005	0.0000003		
	Resources							
7	**Human Resources**							
7.1	Total Number of Employees	14,546	17,414	14,670	14,579	16,200		The number of employees includes Dominion Energy Questar operations
7.2	Total Number on Board of Directors/Trustees	16	15	10	11	12		
7.3	Total Women on Board of Directors/Trustees	1	1	2	2	3		
7.4	Total Minorities on Board of Directors/Trustees	4	3	1	1	1		
7.5	Employee Safety Metrics							
	Recordable Incident Rate			0.74	0.66	0.60	We will maintain and enhance programs to ensure zero work-related fatalities and lead the industry in eliminating serious injuries. We will achieve and maintain first quartile performance in the Southeastern Electric Exchange peer utility benchmark.	Safety metrics include Dominion Energy Questar operations starting in 2017.
7.5.1								
7.5.2	Lost-time Case Rate			0.22	0.18	0.17		
7.5.3	Days Away, Restricted, and Transfer (DART) Rate			0.38	0.30	0.28		
7.5.4	Work-related Fatalities			0	0	0		
8	**Fresh Water Resources**							
	Water Withdrawals - Consumptive (Billions of Liters/Net MWh)			0.0000003	0.0000045		Dominion Energy has already reduced water withdrawal by using low water-use technologies (such as dry cooled condensers, for example) for new generation, and will further reduce water used in the future as we continue to add to our portfolio of renewable power generation.	2017 Water withdrawals and withdrawal rate will be provide by Third Quarter 2018
8.1								
8.2	Water Withdrawals - Non-consumptive (Billions of Liters/Net MWh)			0.0001256	0.0001106			
9	**Waste Products**							
							We will continue our zero landfill policy of Information Technology equipment by responsibly recycling IT Equipment that we no longer use.	
9.1	Percent of Non-hazardous Municipal Solid Waste Diverted							
9.2	Percent of Coal Combustion Products Beneficially Used			24%	21%	22%		

Notes
(1) Generation and emissions are adjusted for equity ownership share to reflect the percentage of output owned by reporting entity.
(2) CO2 and CO2e emissions intensity should be reported using total system generation (net MWh) based on GHG worksheet.
(3) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subparts C and D).
(4) Purchased power emissions calculated using an estimated intensity rate and CO2e conversion factor.
(5) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart DD).
(6) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart W).
(7) Indicate the generation basis for calculating SO2, NOx, and Hg emissions and intensity.
Fossil: Fossil Fuel Generation Only
Total: Total System Generation

Total CO2e is calculated using the following global warming potentials from the IPCC Fourth Assessment Report:
CO2 = 1
CH4 = 25
N2O = 298
SF6 = 22,800