	Step 1 (2012 Data for Fossil Sources)										Step 2 (HRI)	Steps 3a & 3b (Redispatch)						Step 4a Nuclear	Step 4b - Existing and New Renewable (MWh)					Step 5 (Demand Side EE - % of avoided MWh sales)							Steps 6&7 (State Goal Phase I & II)					
State	Coal Rate (lb/MWh)	NGCC Rate (lb/MWh)	O/G rate (lb/MWh)	Other Emissions (lbs)	Hist Coal Gen. (MWh)	Hist NGCC Gen (MWh)	Historic OG steam Gen. (MWh)	Other Gen. (MWh)	NGCC Capacity (MW)	Under Construction NGCC Capacity (MW)	Adj. Coal Rate (lbs/MWh)	Redispatched Coal Gen. (MWh)	Redispatch O/G steam Gen. (MWh)	Redispatched NGCC Gen. (MWh)	Other Emissions (lbs)	Other Gen. (MWh)	2012 NGCC Capacity Factor*	Post Redispatch Assumed NGCC Capacity Factor for Existing Fleet	Nuclear Generation Under Construction and "At Risk" MWh	2020 Existing and Incremental RE	2021 Existing and Incremental RE	2022 Existing and Incremental RE	2023 Existing and Incremental RE	2024 Existing and Incremental RE	2020 EE Potential	2021 EE Potential	2022 EE Potential	2023 EE Potential	2024 EE Potential	State Generation as % of sales	2012 Total MWh	2020	2021	2022	2023	2024	Interim Goal (2020 - 2024 average)	Final Goal (2025 and thereafter)
Alabama	2,264	877	0	0	46,045,176	53,492,096	0	0	10,133	0	2,173	40,539,404	0	58,097,868	0	0	59%	65%	2,329,528	4,596,883	5,214,381	5,914,827	6,709,365	7,610,632	1.07%	1.65%	2.34%	3.11%	3.86%	150.63%	92,654,857	1,301	1,287	1,272	1,255	1,237	1,270	1,237
Alaska	2,852	1,149	0	1,179,006,934	215,407	2,204,942	0	741,853	586	0	2,738	0	0	2,420,349	1,179,006,934	741,853	43%	47%	0	61,595	68,631	76,475	85,213	94,950	0.94%	1.49%	2.15%	2.91%	3.69%	95.58%	6,898,281	1,205	1,190	1,171	1,151	1,132	1,170	1,131
Arizona	2,268	900	1,563	17,227,768	24,335,930	26,792,325	1,033,871	19,361	11,202	0	2,177	0	0	52,152,127	17,227,768	19,361	27%	53%	1,818,486	2,150,930	2,282,026	2,421,112	2,568,676	2,725,233	1.52%	4.23%	4.87%	5.46%	5.98%	142.51%	80,700,610	796	787	778	770	763	779	763
Arkansas	2,276	827	1,445	789,080,955	28,378,831	15,651,185	860,470	1,310,917	5,588	0	2,185	12,600,888	382,069	31,007,529	789,080,955	1,310,917	32%	65%	842,037	2,288,229	2,479,266	2,686,252	2,910,519	3,153,509	1.24%	1.86%	2.57%	3.37%	4.10%	113.99%	50,378,720	1,106	1,095	1,083	1,070	1,058	1,083	1,058
California	2,184	867	1,405	9,203,690,698	933,157	81,298,989	10,401,921	14,405,899	20,765	1,855	2,097	0	0	92,636,067	16,971,116,790	23,368,741	45%	50%	1,034,648	37,968,066	40,282,168	41,150,704	41,150,704	41,150,704	3.55%	4.27%	4.94%	5.54%	6.08%	71.07%	279,029,145	603	587	579	575	571	582	571
Colorado	2,226	928	5,177	45,518,965	34,385,542	8,811,706	618	62,202	3,315	200	2,137	24,002,716	433	10,104,717	941,924,752	1,028,442	30%	65%	0	7,845,383	8,323,548	8,830,857	9,369,086	9,940,110	3.32%	4.05%	4.72%	5.32%	5.87%	89.08%	57,717,061	1,304	1,284	1,264	1,245	1,227	1,265	1,227
Connecticut	3,146	810	1,764	16,456,559	99,461	15,299,704	335,267	30,041	2,749	0	3,020	8,602	28,998	15,696,832	16,456,559	30,041	63%	65%	971,137	1,071,108	1,205,972	1,357,818	1,528,783	1,721,274	3.61%	4.36%	5.05%	5.68%	6.25%	106.36%	31,707,213	676	663	650	638	627	651	627
Delaware	2,137	979	1,430	2,008,473	1,406,502	5,179,270	1,076,070	1,432	1,193	0	2,051	481,732	368,558	6,811,553	2,008,473	1,432	49%	65%	0	247,757	290,517	340,658	399,452	468,394	0.86%	1.40%	2.05%	2.80%	3.59%	45.09%	12,384,433	1,029	1,019	1,009	996	985	1,007	985
Florida	2,251	864	1,529	6,223,480,134	44,537,196	113,320,419	10,025,973	3,567,383	29,485	1,157	2,161	15,116,261	1,402,891	169,364,436	11,054,383,534	9,857,081	51%	65%	1,623,108	7,489,632	8,495,713	9,636,940	10,931,468	12,399,889	1.75%	2.66%	3.25%	3.98%	4.65%	90.30%	237,246,925	930	919	907	895	884	907	884
Georgia	2,295	841	0	68,345,447	40,972,090	37,591,123	0	83,815	8,355	0	2,203	30,860,076	0	47,703,137	68,345,447	83,815	51%	65%	19,220,561	5,427,968	6,157,106	6,984,188	7,922,373	8,986,583	1.48%	2.14%	2.90%	3.66%	4.36%	87.75%	140,815,385	1,029	1,014	998	981	964	997	964
Hawaii	2,077	0	1,695	366,833,183	1,502,308	0	4,093,831	250,090	0	0	1,994	1,502,308	4,093,831	0	366,833,183	250,090			0	1,046,927	1,046,927	1,046,927	1,046,927	1,046,927	1.01%	1.58%	2.25%	3.02%	3.79%	96.24%	10,363,058	1,471	1,461	1,442	1,432	1,417	1,446	1,417
Idaho	0	858	0	0	0	1,639,922	0	0	620	0	2,163	0	0	1,639,922	0	0	30%	30%	0	3,185,880	3,356,687	3,356,687	3,356,687	3,356,687	3.28%	4.02%	4.70%	5.32%	5.88%	46.83%	25,492,620	270	265	261	257	254	261	254
Illinois	2,334	865	0	502,713,811	79,166,165	7,870,421	0	727,383	3,196	0	2,241	67,649,070	0	19,387,518	502,713,811	727,383	26%	65%	5,305,342	10,562,949	11,194,781	11,864,407	12,574,087	13,326,217	3.52%	4.26%	4.95%	5.58%	6.15%	126.99%	154,319,858	1,548	1,523	1,500	1,478	1,457	1,501	1,457
Indiana	2,158	914	0	2,498,940,947	87,213,268	12,839,309	0	1,631,177	2,768	0	2,072	84,250,117	0	15,892,460	2,498,940,947	1,631,177	53%	65%	0	4,474,098	4,741,720	5,025,350	5,325,946	5,644,522	2.89%	3.69%	4.42%	5.09%	5.70%	102.84%	113,071,949	1,750	1,732	1,714	1,698	1,681	1,715	1,681
Iowa	2,251	894	2,422	0	33,055,156	1,437,496	305,111	0	1,264	0	2,161	27,125,142	252,298	7,216,361	0	0	13%	65%	277,784	8,565,921	8,565,921	8,565,921	8,565,921	8,565,921	3.58%	4.32%	4.99%	5.61%	6.17%	113.03%	46,141,853	1,457	1,445	1,431	1,425	1,417	1,436	1,417
Kansas	2,364	0	1,560	0	27,979,593	0	1,632,997	0	0	0	2,269	27,979,593	1,632,997	0	0	0			542,728	7,238,913	7,843,267	8,498,076	8,884,938	8,884,938	0.94%	1.49%	2.16%	2.92%	3.70%	110.28%	43,319,516	1,747	1,709	1,668	1,639	1,625	1,678	1,625
Kentucky	2,166	0	0	0	84,358,281	0	0	0	0	640	2,080	83,796,107	0	562,176	2,804,414,976	3,091,968			0	551,118	625,149	709,125	804,382	912,434	1.63%	2.32%	3.11%	3.86%	4.55%	97.18%	95,736,032	1,844	1,868	1,892	1,916	1,918	1,951	1,918
Louisiana	2,323	766	1,581	3,267,065,650	24,300,393	19,771,182	14,254,748	5,223,728	6,508	0	2,230	13,340,405	7,825,557	37,160,361	3,267,065,650	5,223,728	35%	65%	985,220	3,348,948	3,628,541	3,931,477	4,259,703	4,615,333	0.85%	1.39%	2.04%	2.78%	3.56%	90.08%	91,094,022	1,077	1,066	1,053	1,039	1,025	1,052	1,025
Maine	0	848	2,635	0	0	4,053,378	59,067	0	1,389	0	0	0	0	4,112,445	0	0	33%	34%	0	3,611,728	3,611,728	3,611,728	3,611,728	3,611,728	3.61%	4.36%	5.05%	5.68%	6.25%	132.52%	12,429,295	426	422	417	413	410	418	410
Maryland	2,158	975	1,544	48,214,762	16,267,935	676,556	2,892,354	20,917	280	0	2,072	15,472,015	2,745,797	1,648,932	48,214,762	20,917	27%	65%	787,533	1,687,995	1,991,051	2,314,691	2,717,638	3,210,129	3.47%	4.22%	4.90%	5.53%	6.10%	60.92%	66,455,750	1,596	1,552	1,516	1,480	1,446	1,518	1,446
Massachusetts	2,083	886	1,757	33,906,456	2,268,133	23,603,360	329,883	14,984	6,625	0	1,999	0	0	26,201,176	33,906,456	14,984	41%	45%	316,260	2,962,380	3,335,378	3,755,339	4,228,179	4,760,555	3.55%	4.30%	4.99%	5.63%	6.21%	74.77%	59,467,355	748	731	715	699	683	715	683
Michigan	2,255	810	1,586	3,044,925,860	53,210,780	18,499,951	774,872	4,299,173	5,008	0	2,165	43,259,681	629,961	28,595,961	3,044,925,860	4,299,173	42%	65%	1,827,909	4,775,710	5,061,374	5,364,125	5,684,984	6,025,037	3.59%	4.34%	5.02%	5.65%	6.22%	103.89%	112,690,037	1,382	1,365	1,348	1,333	1,319	1,349	1,319
Minnesota	2,118	863	1,591	83,925,612	21,980,584	5,715,510	29,243	97,924	2,768	0	2,225	11,913,179	15,843	15,809,315	83,925,612	97,924	24%	65%	840,590	7,888,544	7,888,544	7,888,544	7,888,544	7,888,544	3.58%	4.32%	4.99%	5.63%	6.17%	82.84%	73,094,474	1,039	1,028	1,017	1,007	995	1,018	995
Mississippi	2,494	848	1,388	0	7,501,114	31,813,677	4,402,778	0	7,894	150	2,394	0	0	43,719,569	5,318,387,062	6,561,648	46%	63%	631,874	2,498,636	2,834,265	3,214,992	3,646,861	4,136,743	1.12%	1.71%	2.40%	3.18%	3.93%	98.63%	52,021,589	785	776	766	755	743	765	743
Missouri	2,085	890	0	0	72,939,512	4,854,569	0	0	2,079	0	2,001	65,925,535	0	11,868,546	0	0	27%	65%	549,657	1,638,287	1,736,283	1,840,140	1,950,210	2,066,863	1.29%	1.92%	2.65%	3.46%	4.20%	99.47%	88,626,254	1,757	1,742	1,727	1,710	1,694	1,726	1,694
Montana	2,438	0	0	637,810,629	14,447,406	0	0	257,517	0	0	2,340	14,447,406	0	0	637,810,629	257,517			0	1,598,641	1,696,078	1,799,452	1,909,326	2,025,485	3.01%	3.77%	4.47%	5.11%	5.69%	207.68%	14,904,523	2,057	2,031	2,006	1,983	1,960	2,007	1,960
Nebraska	2,381	1,097	1,755	0	24,660,981	423,638	37,524	0	468	0	2,094	22,414,234	34,105	2,673,806	0	0	10%	65%	574,830	1,856,033	2,010,886	2,178,877	2,360,784	2,557,879	1.91%	2.67%	3.47%	4.21%	4.80%	112.44%	33,143,317	1,771	1,746	1,720	1,695	1,671	1,721	1,671
Nevada	2,275	883	1,459	172,680,512	4,133,662	23,783,256	279,983	198,037	6,381	0	2,184	0	0	28,196,901	172,680,512	198,037	42%	50%	0	3,761,262	3,990,506	4,233,722	4,491,761	4,765,528	2.67%	3.46%	4.19%	4.85%	5.45%	96.67%	37,821,930	756	745	734	723	713	734	713
New Hampshire	2,382	878	1,889	0	1,281,541	6,946,869	72,614	0	1,506	0	2,267	0	0	8,300,824	0	0	59%	63%	575,615	2,219,730	2,499,219	2,813,899	3,168,200	3,567,111	2.56%	3.38%	4.14%	4.84%	5.49%	194.97%	11,686,618	639	616	594	574	557	596	557
New Jersey	2,102	889	1,473	2,431,861,784	2,602,990	20,015,730	173,072	2,295,215	5,932	0	2,018	0	0	22,792,692	2,431,861,784	2,295,215	39%	44%	1,616,037	2,421,244	2,839,129	3,329,137	3,903,716	4,577,463	0.96%	1.52%	2.20%	2.96%	3.74%	76.19%	80,689,388	764	748	723	700	676	722	676
New Mexico	2,341	907	1,313	0	11,353,987	5,730,967	2,208,001	0	1,662	0	2,247	8,205,574	1,595,732	9,491,639	0	0	39%	65%	0	3,261,076	3,459,834	3,670,706	3,894,431	4,131,791	2.81%	3.58%	4.28%	4.92%	5.50%	150.06%	24,919,278	1,251	1,231	1,211	1,194	1,176	1,214	1,176
New York	2,219	954	1,366	1,921,012,400	4,156,541	44,002,777	12,502,558	2,590,211	9,648	0	2,131	1,106,634	5,328,988	56,225,857	1,921,012,400	2,590,211	51%	65%	2,410,637	8,344,248	9,394,885	10,577,805	11,909,671	13,409,233	3.54%	4.30%	4.99%	5.62%	6.20%	93.05%	153,914,184	774	755	735	716	697	736	697
North Carolina	2,044	851	0	826,846,419	50,607,838	15,195,335	0	362,531	4,709	2,249	1,963	36,940,574	0	28,862,599	10,075,775,562	11,227,930	37%	65%	2,295,635	4,476,638	5,077,973	5,760,095	6,533,848	7,411,538	2.09%	2.87%	3.64%	4.34%	4.98%	86.12%	137,704,068	1,242	1,230	1,198	1,177	1,156	1,199	1,156
North Dakota	2,368	0	0	0	28,186,691	0	0	0	0	0	2,273	28,186,691	0	0	0	0			0	5,459,957	5,459,957	5,459,957	5,459,957	5,459,957	1.11%	1.70%	2.39%	3.18%	3.95%	259.49%	15,822,199	1,894	1,889	1,883	1,876	1,870	1,882	1,870
Ohio	2,126	963	1,332	284,732,506	86,473,075	20,907,183	321,602	214,178	4,541	539	2,041	82,129,018	305,446	25,267,396	2,791,474,084	2,818,595	55%	65%	993,077	3,286,937	3,854,232	4,519,438	5,299,452	6,214,090	3.47%	4.22%	4.91%	5.54%	6.12%	85.97%	163,906,374	1,631	1,609	1,588	1,566	1,545	1,588	1,545
Oklahoma	2,305	891	1,382	13,854,903	29,102,160	29,943,376	9,488,758	13,847	8,035	0	2,213	16,766,497	4,890,590	45,877,207	13,854,903	13,847	42%	65%	0	11,742,785	12,723,153	13,785,368	14,936,266	15,579,318	1.57%	2.26%	3.03%	3.79%	4.49%	114.44%	63,797,305	1,056	1,037	1,018	998	986	1,019	986
Oregon	2,080	853	0	103,545,341	2,640,259	11,424,291	0	123,816	3,435	0	1,996	0	0	14,064,550	103,545,341	123,816	38%	47%	0	9,131,577	9,688,134	10,278,613	10,905,080	11,569,730	3.55%	4.27%	4.92%	5.52%	6.06%	111.21%	50,195,189	482	465	449	434	420	450	420
Pennsylvania	2,108	855	1,515	3,150,956,118	87,052,562	50,028,719	1,638,387	3,804,205	9,582	0	2,024	82,459,481	1,551,942	54,708,245	3,150,956,118	3,804,205	59%	65%	4,480,398	8,430,547	9,085,114	11,591,976	13,591,732	15,997,543	3.58%	4.32%	5.00%	5.62%	6.18%	142.20%	155,577,427	1,361	1,339	1,317	1,294	1,270	1,316	1,270
Rhode Island	0	918	0	0	0	8,140,017	0	0	1,961	0				8,140,017	0	0	47%	47%	0	163,746	184,563	207,576	233,711	263,140	3.35%	4.13%	4.82%	5.47%	6.06%	97.63%	8,287,230	871	863	855	847	840	855	840
South Carolina	2,164	847	1,730	10,850,547	28,460,318	11,209,394	405,616	14,671	2,839	0	2,077	23,529,292	335,339	16,210,696	10,850,547	14,671	45%	65%	20,340,640	3,548,749	4,025,451	4,566,189	5,179,564	5,875,334	2.04%	2.81%	3.58%	4.29%	4.94%	115.08%	83,622,303	962	946	929	913	897	930	897
South Dakota	2,266	1,131	0	0	2,923,561	27,096	0	0	324	0	2,115	1,100,347	0	1,849,910	0	0	1%	65%	0	1,818,850	1,818,850	1,818,850	1,818,850	1,818,850	1.12%	1.96%	2.69%	3.40%	4.22%	82.32%	12,615,640	914	902	889	874	861	888	861
Tennessee	2,244	833	0	0	34,373,696	6,548,897	0	0	1,601	0	2,155	31,779,810	0	9,142,782	0	0	47%	65%	10,416,639	1,384,846	1,570,872	1,781,886	2,021,247	2,292,760	1.93%	2.68%	3.47%	4.20%	4.86%	71.81%	103,619,721	1,402	1,382	1,361	1,344	1,326	1,363	1,326
Texas	2,239	837	1,377	23,395,881,438	138,705,138	148,010,278	20,911,868	35,025,953	37,548	0	2,149	81,028,657	12,216,278	214,382,348	23,395,881,438	35,025,953	45%	65%	2,291,006	46,879,906	50,793,762	55,034,973	59,629,020	64,607,260	1.50%	2.17%	2.93%	3.70%	4.40%	98.12%	392,523,451	991	975	958	940	924	957	924
Utah	2,071	884	1,867	0	27,332,140	5,447,362	120,348	0	1,953	0	1,988	21,651,382	99,335	13,153,133	0	0	12%	65%	0	1,393,353	1,478,276	1,568,375	1,663,965	1,765,381	3.19%	3.94%	4.63%	5.25%	5.82%	127.29%	31,955,593	1,501	1,480	1,477	1,465	1,453	1,478	1,453
Virginia	2,268	903	1,652	2,581,898,592	13,641,552	23,070,350	343,908	1,140,288	4,346	1,928	2,177	10,288,388	259,374	26,508,048	10,995,356,047	10,454,842	60%	65%	1,645,279	4,458,736	5,228,273	6,130,626	7,188,717	8,429,425	0.95%	1.50%	2.16%	2.91%	3.67%	58.01%	115,890,388	1,065	1,043	1,018	991	962	1,016	962
Washington	2,432	823	0	841,079,242	3,735,730	5,665,045	0	1,181,854	3,485	0	2,335	0	0	9,400,775	841,079,242	1,181,814	19%	31%	506,700	10,407,602	11,041,931	11,714,921	12,428,930	13,186,456	3.45%	4.18%	4.85%	5.45%	6.00%	107.69%	99,270,908	344	326	311	297	284	312	284
West Virginia	2,056	0	0	569,069,879	70,074,636	0	0	270,213	0	0	1,974	70,074,636	0	0	569,069,879	270,213			0	2,451,206	2,674,262	3,370,334	3,952,023	4,634,107	1.40%	2.16%	2.93%	3.71%	4.44%	233.30%	33,131,616	1,895	1,870	1,860	1,839	1,817	1,858	1,817
Wisconsin	2,361	833	1,798	133,623,054	32,112,721	10,244,273	47,668	160,189	2,977	0	2,268	25,367,814	37,656	16,999,192	133,623,054	160,189	39%	65%	566,885	4,066,362	4,309,595	4,567,377	4,840,579	5,130,122	3.60%	4.34%	5.02%	5.65%	6.22%	83.97%	73,988,479	1,455	1,438	1,416	1,397	1,380	1,417	1,380
Wyoming	2,331	0	0	0	42,907,427	0	0	0	0	220	2,237	42,714,179	0	193,248	964,017,648	1,062,864			0	5,535,669	5,873,061	6,231,016	6,610,788	7,013,706	1.33%	1.96%	2.69%	3.47%	4.19%	256.15%	18,245,903	1,944	1,926	1,908	1,888	1,869	1,907	1,869