

# Appendices A

## Data by Company

Country	Company	2002			2003			2004			2005			2006			2007			2008			2009		
		Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh
Fr/UK/All/It	EDF Groupe	650	91,348,027	141	669	96,341,336	144	647	95,735,673	148	647	93,515,968	145	655	93,346,822	142	706	101,911,108	144	704	103,791,689	147	652	88,066,581	135
All/UK	RWE Groupe	184	135,930,000	738	179	140,500,000	787	183	139,100,000	761	182	142,700,000	784	185	142,400,000	771	173	147,060,000	848	194	144,460,000	747	169	133,700,000	792
Eastern/ Central/ Northern Europe/ Europe/ UK/Fr	E.ON Groupe	216	91,778,921	425	186	93,828,200	504	245	101,385,062	413	229	101,174,880	442	221	100,795,400	456	247	106,043,010	429	239	100,074,100	418	216	84,700,000	393
It/Spain/Port	Enel Groupe	228	120,400,000	529	232	115,506,560	499	222	111,917,253	514	206	106,823,438	528	193	92,992,808	495	185	92,252,200	498	186	83,000,000	447	170	77,286,559	454
Port/Spain	EDP Groupe	39	26,899,200	690	43	23,248,000	536	39	23,893,710	614	42	28,255,000	677	43	24,494,000	565	43	23,422,000	544	40	19,783,000	500	42	20,007,000	477
Sweden/ All/UK	Vattenfall	166	68,282,636	411	160	71,471,000	448	174	69,971,000	403	175	71,788,500	410	165	74,500,000	450	184	84,502,500	459	178	81,717,000	459	175	79,046,000	452
Europe	GDF Suez Europe	115	44,481,000	387	130	41,587,000	320	125	40,825,000	327	123	39,361,000	319	129	40,403,000	314	148	50,520,233	341	145	47,575,442	327	141	45,443,000	322
Spain/UK	Iberdrola + Scottish Power	56	13,549,831	242	64	7,465,495	117	66	11,899,215	179	88	29,649,833	338	95	28,161,442	297	84	24,716,124	294	94	27,212,240	289	92	25,550,020	279
Czech Republic/ Poland/ Bulgaria	CEZ	54	34,699,655	643	61	34,000,000	557	62	35,706,546	575	60	33,300,000	555	66	36,281,327	553	73	46,853,740	640	68	40,375,540	597	65	37,195,443	569
Greece	DEI	49	51,345,000	1,050	52	52,408,800	1,004	53	53,287,500	1,015	53	52,592,000	994	52	50,493,000	969	54	53,040,000	984	52	52,200,000	996	50	49,700,000	992
Finland	Fortum	48	7,000,000	146	53	9,142,857	172	56	7,928,571	143	52	1,993,708	38	54	5,820,800	107	52	3,340,800	64	53	2,156,600	41	49	2,021,300	41
Norway/ Sweden/ Finland	Statkraft	49	0	0	42	0	0	34	0	0	49	0	0	46	0	0	45	229,000	5	53	1,604,700	30	57	1,600,000	28
UK	Scottish & Southern	19	9,346,800	487	23	12,239,400	531	23	12,184,800	524	39	18,900,000	486	41	25,210,000	622	47	25,880,000	555	46	22,720,000	466	39	19,300,000	491
Spain	Union Fenosa	24	16,380,300	683	26	15,098,000	584	27	16,539,300	612	29	16,487,000	572	31	15,822,000	514	34	18,203,375	535	18	7,263,102	398	29	9,480,240	330
Austria	Verbund	35	3,654,000	105	28	5,000,000	178	30	4,437,000	149	29	3,810,000	131	28	3,701,000	132	28	3,407,000	120	29	2,885,000	101	30	2,219,932	74
UK	Drax	19	16,350,000	840	26	21,642,000	833	25	20,519,000	830	25	20,519,000	830	27	22,764,847	840	27	22,505,000	844	27	22,299,000	818	24	19,845,250	815
Denmark	Dong	30	17,529,897	584	36	21,470,000	591	29	15,766,397	552	29	15,766,397	552	26	11,874,624	464	20	8,547,437	432	19	7,433,436	401	18	6,928,622	383
Finland/ Sweden	PVO	16	6,000,000	375	18	6,073,529	337	18	4,950,000	280	13	1,671,585	126	18	4,731,278	264	17	4,250,000	250	22	2,916,788	131	22	2,875,309	131
Total		2,066	759,943,167	368	2,118	788,861,178	373	2,142	788,222,027	368	2,137	793,852,468	372	2,146	788,880,347	368	2,188	816,681,526	377	2,166	769,467,637	355	2,040	704,979,756	346

# Appendices B

## Consolidated Results

Country	Company	2022			2023			2024			2025			2026			2027			2028			2029			
		Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	Production (TWh)	Emission (kt CO <sub>2</sub> )	kg CO <sub>2</sub> /MWh	
France	EDF-France	509	23,680,000	47	513	22,893,000	45	487	20,470,800	42	494	23,707,200	48	481	19,632,000	40	483	20,523,250	43	484	18,436,550	38	454	18,506,880	41	
UK	EDF Energy	20	15,754,611	772	23	17,460,000	776	25	20,477,828	812	23	18,480,300	807	25	20,777,200	818	26	21,060,450	826	27	21,900,000	805	72	23,795,870	330	
Germany	EnBW	65	16,766,516	488	75	20,858,100	277	73	19,229,245	263	74	17,811,200	242	75	18,050,900	241	74	17,719,500	241	67	16,967,200	254	66	15,850,445	241	
Italy	Edison Group	56	35,136,900	624	57	35,130,236	613	61	35,357,800	593	56	33,517,268	597	64	34,885,722	542	66	34,790,908	531	63	32,461,858	514	61	29,932,686	495	
	Edison	35	20,589,000	588	36	21,136,136	587	36	20,648,000	590	33	22,135,218	663	39	21,407,916	542	41	22,015,791	531	NC	NC	NC	42	20,218,086	486	
	Edipower	21	14,547,900	683	21	13,994,100	657	25	14,939,800	587	23	11,382,050	539	25	13,477,806	542	24	12,751,117	531	NC	NC	NC	19	9,714,600	514	
	<b>EDF Group</b>	<b>720</b>	<b>96,745,927</b>	<b>134</b>	<b>669</b>	<b>96,341,336</b>	<b>144</b>	<b>647</b>	<b>95,735,673</b>	<b>148</b>	<b>647</b>	<b>93,515,968</b>	<b>145</b>	<b>655</b>	<b>93,345,822</b>	<b>142</b>	<b>647</b>	<b>94,086,108</b>	<b>145</b>	<b>641</b>	<b>89,735,648</b>	<b>140</b>	<b>652</b>	<b>88,085,881</b>	<b>135</b>	
Germany	RWE	149	114,000,000	765	141	113,000,000	803	149	116,000,000	779	149	120,000,000	808	148	117,700,000	794	176	159,000,000	897	180	141,000,000	785	128	107,900,000	845	
UK	RWE UK	35	21,500,000	623	38	27,500,000	726	34	23,100,000	681	33	22,700,000	680	37	24,700,000	677	34	22,000,000	651	38	25,000,000	685	27	16,800,000	622	
	<b>RWE Group</b>	<b>184</b>	<b>135,500,000</b>	<b>738</b>	<b>179</b>	<b>140,500,000</b>	<b>787</b>	<b>183</b>	<b>139,100,000</b>	<b>761</b>	<b>182</b>	<b>142,700,000</b>	<b>784</b>	<b>185</b>	<b>142,400,000</b>	<b>771</b>	<b>173</b>	<b>147,060,000</b>	<b>848</b>	<b>187</b>	<b>138,460,000</b>	<b>742</b>	<b>169</b>	<b>133,700,000</b>	<b>792</b>	
Central Europe	E.ON	156	52,260,000	335	123	47,158,200	383	127	52,215,190	410	130	53,200,000	410	132	54,000,000	410	136	57,100,000	420	138	54,000,000	390	130	50,600,000	390	
UK	E.ON UK	37	23,132,702	632	36	26,683,000	743	35	25,086,000	719	37	28,000,000	750	36	25,500,000	710	41	30,000,000	730	44	25,700,000	580	37	19,500,000	530	
Scandinavia	E.ON Nordic	0	0	0	0	0	0	53	3,164,557	60	30	300,000	10	20	400,000	20	40	400,000	10	30	300,000	10	20	NC	NC	
Italy	ex-Enelisa Italia	18	10,881,620	620	18	10,919,000	610	21	11,484,000	550	23	11,681,000	500	25	13,307,240	530	22	11,707,170	530	22	11,707,170	530	17	7,500,000	450	
France	ex-SNET	6	5,504,599	971	9	9,069,000	956	10	9,435,315	985	9	7,993,880	920	8	7,589,160	920	8	6,835,840	880	8	8,166,930	972	NC	NC	NC	
	<b>E.ON Group</b>	<b>216</b>	<b>91,779,921</b>	<b>425</b>	<b>186</b>	<b>93,828,200</b>	<b>504</b>	<b>245</b>	<b>101,385,062</b>	<b>413</b>	<b>229</b>	<b>101,174,880</b>	<b>442</b>	<b>221</b>	<b>100,735,400</b>	<b>456</b>	<b>247</b>	<b>106,043,010</b>	<b>429</b>	<b>243</b>	<b>99,874,100</b>	<b>411</b>	<b>216</b>	<b>84,700,000</b>	<b>393</b>	
	Vattenfall	166	68,282,636	411	177	86,209,000	486	193	84,992,000	442	190	80,417,500	422	183	82,659,300	452	184	84,592,500	459	178	81,717,000	459	175	79,046,000	452	
	GDF Suez Europe	115	44,481,000	387	130	41,587,000	320	125	40,825,000	327	123	39,361,000	319	129	40,403,000	314	148	50,520,233	341	145	47,575,442	327	141	45,443,000	322	
Italy	Enel Provisone	137	75,000,000	547	138	71,467,560	518	126	63,408,000	503	112	56,200,000	501	104	48,500,000	467	94	46,723,200	496	96	44,500,000	462	84	37,076,701	441	
Spain	Viesgo generacion	6	5,013,000	823	6	5,013,000	823	6	5,013,000	823	7	6,000,000	823	7	6,000,000	823	0	4,200,000	0	NC	NC	NC	61	31,050,467	507	
Spain	Enel Union Fenosa Renovables	0	0	0	0	0	0	2	631,000	262	1	6,000,000	262	24	28,756,537	1,190	3	0	0	NC	NC	NC	NC	NC	NC	
Spain/Portugal	ex-Endesa	91	45,400,000	500	94	44,039,000	470	96	48,509,253	507	94	50,323,438	538	89	44,492,808	501	91	45,529,000	500	101	38,500,000	383	NC	NC	NC	
	<b>Enel Group</b>	<b>228</b>	<b>120,400,000</b>	<b>529</b>	<b>232</b>	<b>115,506,560</b>	<b>499</b>	<b>222</b>	<b>111,917,253</b>	<b>514</b>	<b>206</b>	<b>106,823,438</b>	<b>528</b>	<b>183</b>	<b>92,992,808</b>	<b>495</b>	<b>185</b>	<b>92,252,200</b>	<b>498</b>	<b>197</b>	<b>83,000,000</b>	<b>422</b>	<b>170</b>	<b>77,286,589</b>	<b>454</b>	
Portugal	EDP P	25	15,025,600	601	29	11,400,000	400	26	12,051,710	465	25	14,880,000	590	NC	12,701,000	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Spain	Hydrocentribico	14	11,873,600	848	14	11,849,000	935	13	11,842,000	913	15	12,920,000	873	NC	11,775,000	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
	<b>Grpue EDP</b>	<b>39</b>	<b>26,889,200</b>	<b>690</b>	<b>43</b>	<b>23,249,000</b>	<b>536</b>	<b>39</b>	<b>23,893,710</b>	<b>614</b>	<b>42</b>	<b>28,255,000</b>	<b>677</b>	<b>43</b>	<b>24,484,000</b>	<b>565</b>	<b>43</b>	<b>23,422,000</b>	<b>544</b>	<b>40</b>	<b>19,783,000</b>	<b>500</b>	<b>42</b>	<b>20,007,000</b>	<b>477</b>	