

Data Appendices – Peak Oil, the Decline of the North Sea and Britain's Energy Future

A presentation to the All Party Parliamentary Group on Peak Oil, House of Commons, Tuesday 24th November 2009

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1. UK Oil Data – 1890 to 2008 with projections to 2020

Data source: *Crude oil and petroleum products -- production, imports and exports, 1890 to 2008, DECC 2009*

URL: http://www.decc.gov.uk/media/viewfile.ashx?filepath=statistics/publications/energytrends/1_20090810102848_e_@@_oilsince1870.xls&filetype=4

Source data (ttoe)

Year	Crude production	Crude exports	Crude imports	Refinery input	Refinery output	Refined exports	Refined imports	Inland supply
1890						4	452	
1891						5	506	
1892						5	560	
1893						5	615	
1894						6	669	
1895						6	723	
1896						7	777	
1897						7	831	
1898						7	885	
1899						8	939	
1900						8	993	
1901						11	1,033	
1902						14	1,074	
1903						18	1,115	
1904						21	1,156	
1905						24	1,196	
1906						27	1,237	
1907						30	1,278	
1908						33	1,319	
1909						36	1,359	
1910		0	1			39	1,400	
1911		0	2			61	1,604	
1912		0	4			83	1,807	
1913		0	6			104	2,011	
1914		0	7			126	2,214	
1915		1	9			148	2,418	

Standardised data (PJ)

Year	Indigenous supply	Imports	Exports	EMO Production	Calculated imports	Demand
1890	0	-19	0			19
1891	0	-21	0			21
1892	0	-23	0			23
1893	0	-26	0			26
1894	0	-28	0			28
1895	0	-30	0			30
1896	0	-32	0			32
1897	0	-34	0			34
1898	0	-37	0			37
1899	0	-39	0			39
1900	0	-41	0			41
1901	0	-43	0			43
1902	0	-44	0			44
1903	0	-46	0			46
1904	0	-48	0			48
1905	0	-49	0			49
1906	0	-51	0			51
1907	0	-52	0			52
1908	0	-54	0			54
1909	0	-55	0			55
1910	0	-57	0			57
1911	0	-65	0			65
1912	0	-72	0			72
1913	0	-80	0			80
1914	0	-88	0			88
1915	0	-95	0			95

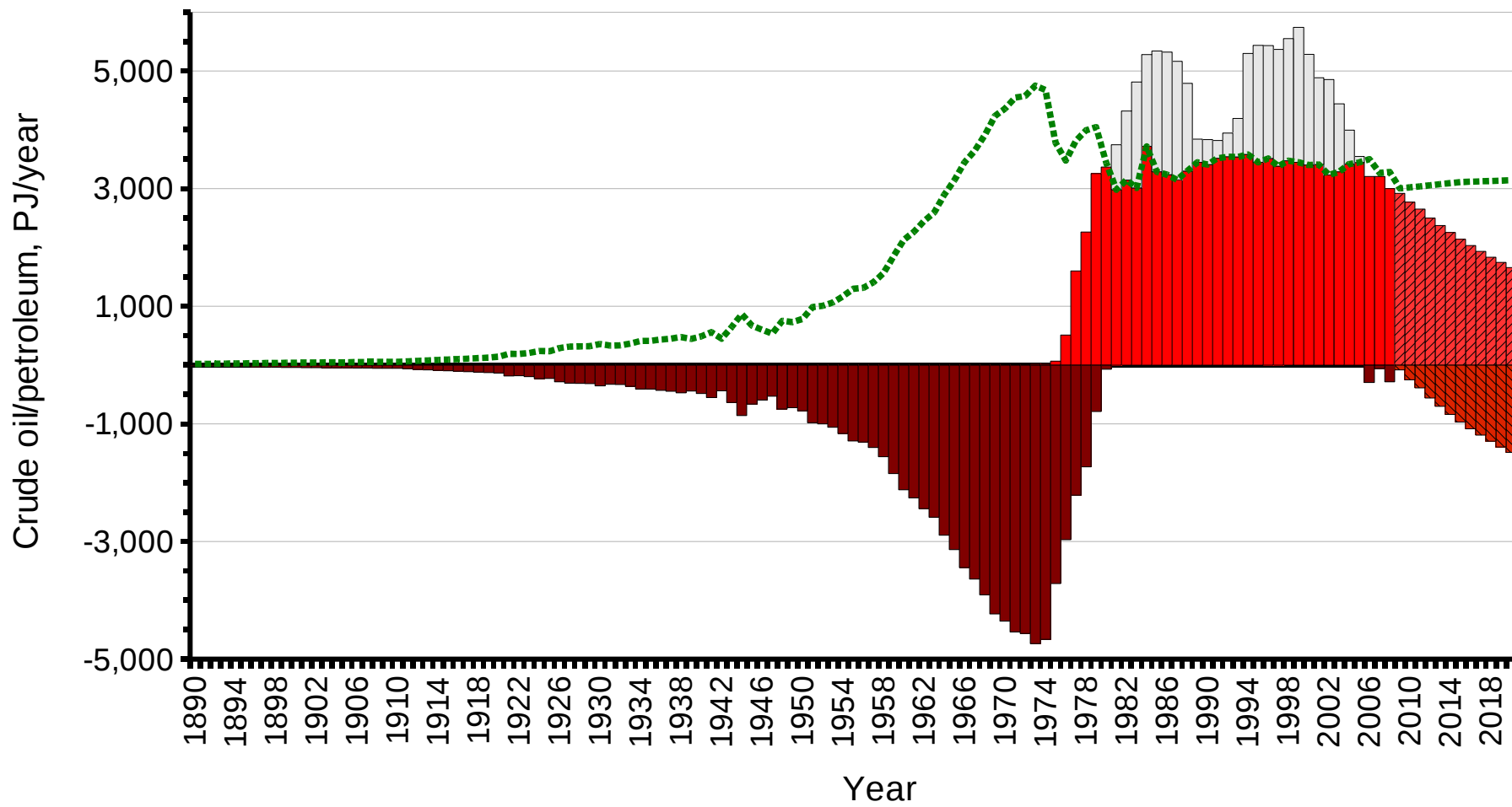
1916		1	10		169	2,622		1916	0	-103	0	103	
1917		1	12		191	2,825		1917	0	-111	0	111	
1918		1	14		213	3,029		1918	0	-118	0	118	
1919		1	15		234	3,232		1919	0	-126	0	126	
1920	228	1	17	245	256	3,436		1920	10	-134	0	143	
1921	155	0	413	567	109	4,111		1921	7	-185	0	191	
1922	205	0	883	1,088	351	3,820		1922	9	-182	0	191	
1923	228	8	1,360	1,580	476	3,798		1923	10	-196	0	205	
1924	229	0	1,888	2,115	634	4,225		1924	10	-229	0	239	
1925	196	0	2,313	2,509	872	3,967		1925	8	-226	0	235	
1926	155	0	2,185	2,340	609	5,185		1926	7	-283	0	290	
1927	169	2	2,702	2,868	629	5,250		1927	7	-306	0	314	
1928	168	1	2,024	2,192	632	6,038		1928	7	-311	0	318	
1929	165	0	1,980	2,145	805	6,341		1929	7	-315	0	322	
1930	163	0	1,874	2,036	668	7,202		1930	7	-352	0	359	
1931	142	0	1,400	1,542	520	6,894		1931	6	-325	0	331	
1932	115	0	1,498	1,612	521	6,941		1932	5	-331	0	336	
1933	117	1	1,596	1,713	521	7,563		1933	5	-362	0	367	
1934	118	17	1,935	2,052	620	8,407		1934	5	-406	0	411	
1935	117	22	1,985	2,102	713	8,502		1935	5	-408	0	413	
1936	118	12	2,080	2,198	668	8,864		1936	5	-430	0	435	
1937	123	0	2,143	2,266	772	9,279		1937	5	-446	0	451	
1938	128	0	2,308	2,400	601	9,541		1938	5	-471	0	476	
1939	133	0	2,201	2,428	541	8,873		1939	6	-441	0	447	
1940	145	0	1,589	1,598	221	10,161		1940	6	-483	0	489	
1941	164	0	992	1,120	54	12,275		1941	7	-553	0	560	
1942	235	0	600	980	67	9,942		1942	10	-439	0	448	
1943	261	0	535	908	38	14,684		1943	11	-636	0	647	
1944	233	0	695	1,278	80	19,891		1944	10	-859	0	868	
1945	191	0	964	1,378	171	15,056		1945	8	-664	0	672	
1946	170	0	2,214	2,464	410	12,428		1946	7	-596	0	603	
1947	147	0	2,514	2,510	654	10,762	11,972	1947	6	-528	0	535	
1948	155	0	4,715	4,502	350	13,454	12,542	1948	7	-746	0	753	
1949	161	0	6,150	6,291	510	11,674	13,553	1949	7	-725	0	732	
1950	160	0	9,459	9,433	8,562	1,266	10,396	14,862	1950	7	-778	0	785
1951	152	0	16,892	16,718	15,272	3,754	10,301	16,275	1951	6	-981	0	988
1952	165	0	23,063	22,851	20,799	5,521	6,370	16,515	1952	7	-1,001	0	1,008

1953	162	0	26,067	25,804	23,393	7,565	6,785	17,775	1953	7	-1,059	0	1,065
1954	162	0	28,418	28,529	25,609	7,855	7,223	19,428	1954	7	-1,163	0	1,170
1955	153	0	28,126	28,041	25,011	6,329	9,028	21,517	1955	6	-1,291	0	1,297
1956	146	0	28,860	29,324	25,976	7,682	10,047	23,436	1956	6	-1,307	0	1,313
1957	155	0	28,799	28,264	25,171	6,522	11,190	23,052	1957	7	-1,401	0	1,408
1958	145	0	34,129	33,461	29,771	8,361	11,475	28,992	1958	6	-1,559	0	1,565
1959	145	0	39,593	39,764	35,321	8,609	13,085	33,973	1959	6	-1,845	0	1,851
1960	148	0	45,439	45,179	40,286	9,131	14,333	39,983	1960	6	-2,120	0	2,126
1961	151	0	49,704	49,893	44,908	7,948	12,185	43,182	1961	6	-2,258	0	2,265
1962	129	0	53,383	53,136	48,131	10,188	15,151	48,903	1962	5	-2,443	0	2,448
1963	125	34	54,408	54,173	52,613	10,872	18,285	54,173	1963	5	-2,587	0	2,592
1964	129	54	60,179	59,416	53,317	9,613	18,568	59,414	1964	5	-2,892	0	2,898
1965	83	87	65,409	66,111	64,089	10,892	20,521	67,995	1965	3	-3,138	0	3,142
1966	79	109	72,692	72,873	71,722	12,848	22,514	76,252	1966	3	-3,444	0	3,447
1967	90	738	74,887	74,711	73,531	12,055	24,835	82,050	1967	4	-3,640	0	3,643
1968	85	60	84,530	84,433	83,101	14,685	23,487	87,491	1968	4	-3,905	0	3,909
1969	86	339	94,648	93,170	91,703	14,574	21,316	93,495	1969	4	-4,231	0	4,234
1970	156	1,182	102,155	101,911	94,696	17,424	20,428	91,151	1970	7	-4,353	0	4,360
1971	212	1,569	107,736	105,342	98,245	17,166	19,369	91,991	1971	9	-4,537	0	4,546
1972	333	3,558	107,706	106,980	99,368	15,979	20,827	98,469	1972	14	-4,563	0	4,577
1973	372	3,235	115,472	114,338	105,954	17,404	18,300	99,786	1973	16	-4,737	0	4,752
1974	410	1,404	112,822	111,217	103,060	14,631	14,537	93,409	1974	17	-4,661	0	4,678
1975	1,564	1,524	91,366	93,597	86,647	13,924	12,786	82,824	1975	65	-3,714	0	3,779
1976	12,169	4,285	80,466	97,784	90,284	15,988	10,709	81,579	1976	509	-2,969	0	3,478
1977	38,265	16,793	70,697	93,615	86,338	14,160	13,050	82,759	1977	1,602	-2,210	0	3,812
1978	54,006	25,200	68,144	96,390	89,156	13,194	11,586	84,141	1978	2,261	-1,731	0	3,992
1979	77,748	40,569	60,380	97,806	90,583	12,988	12,035	84,554	1979	3,255	-790	0	4,045
1980	80,467	40,180	46,717	86,341	79,227	14,110	9,245	71,177	1980	3,369	-70	0	3,439
1981	89,454	52,206	36,855	78,287	72,006	12,256	9,402	66,256	1981	2,983	0	762	2,983
1982	103,211	61,670	33,754	77,130	70,747	12,637	12,524	67,246	1982	3,148	0	1,174	3,148
1983	114,960	69,923	30,324	76,876	70,927	13,331	9,907	64,464	1983	3,012	0	1,801	3,012
1984	126,065	80,143	32,272	79,117	73,187	12,478	23,082	81,435	1984	3,718	0	1,560	3,718
1985	127,611	82,980	35,576	78,431	72,904	14,828	13,101	69,781	1985	3,286	0	2,057	3,286
1986	127,068	87,437	41,209	80,155	74,089	15,283	11,767	69,227	1986	3,237	0	2,083	3,237
1987	123,351	83,220	41,541	80,449	74,656	14,980	8,570	67,701	1987	3,151	0	2,013	3,151
1988	114,459	73,330	44,272	85,662	79,837	15,802	9,219	72,317	1988	3,300	0	1,492	3,300
1989	91,710	51,664	49,500	87,669	81,392	16,683	9,479	73,028	1989	3,447	0	392	3,447

1990	91,604	56,999	52,710	88,692	82,286	16,899	11,005	73,943	1990	3,409	0	426	3,409	
1991	91,261	55,131	57,084	92,001	85,476	19,351	10,140	74,506	1991	3,517	0	304	3,517	
1992	94,251	57,627	57,683	92,334	85,783	20,250	10,567	75,470	1992	3,543	0	403	3,543	
1993	100,189	64,415	61,701	96,273	89,584	23,031	10,064	75,790	1993	3,538	0	657	3,538	
1994	126,542	82,393	53,096	93,161	86,644	22,156	10,441	74,957	1994	3,581	0	1,717	3,581	
1995	129,894	84,577	48,749	92,743	86,133	21,614	9,878	73,694	1995	3,447	0	1,991	3,447	
1996	129,742	81,563	50,099	96,660	89,885	23,681	9,315	75,390	1996	3,513	0	1,919	3,513	
1997	128,234	79,400	49,994	97,023	90,366	26,755	8,706	72,501	1997	3,382	0	1,987	3,382	
1998	132,633	84,610	47,958	93,797	86,615	24,375	11,418	78,438	1998	3,476	0	2,077	3,476	
1999	137,099	91,797	44,869	88,286	81,195	21,730	13,896	77,976	1999	3,447	0	2,293	3,447	
2000	126,245	92,918	54,387	88,014	81,130	20,677	14,212	71,944	2000	3,402	0	1,884	3,402	
2001	116,678	86,930	53,551	83,343	77,051	19,088	17,234	71,354	2001	3,410	0	1,475	3,410	
2002	115,944	87,144	56,968	84,784	78,319	23,444	14,900	70,556	2002	3,233	0	1,621	3,233	
2003	106,073	74,898	54,177	84,585	79,073	23,323	16,472	71,697	2003	3,287	0	1,154	3,287	
2004	95,374	64,504	62,516	89,821	84,411	30,270	18,545	73,867	2004	3,419	0	574	3,419	
2005	84,721	54,098	58,886	86,135	80,402	29,722	22,511	75,375	2005	3,446	0	101	3,446	
2006	76,578	50,195	59,443	83,213	78,200	29,009	26,828	75,110	2006	3,206	-296	0	3,502	
2007	76,575	50,999	57,357	81,117	76,788	30,017	25,093	73,234	2007	3,206	-60	0	3,266	
2008	71,665	48,410	60,074	80,725	75,903	28,811	23,916	71,420	2008	3,000	-283	0	3,284	
									2009			2,921	-83	3,004
									2010			2,771	-251	3,022
									2011			2,654	-386	3,040

DECC/Ofgem: Energy Markets Outlook

Year	Production Chart 7.3:calculated)	Imports Chart 7.2	Demand projection			
				2012	2013	2014
2009	69,767	1,971	71,738	2,498	-559	3,058
2010	66,173	5,997	72,170	2,373	-702	3,076
2011	63,382	9,220	72,602	2,255	-839	3,094
2012	59,671	13,363	73,034	2,142	-970	3,112
2013	56,687	16,779	73,466	2,035	-1,083	3,118
2014	53,853	20,045	73,898	1,933	-1,191	3,124
2015	51,160	23,170	74,330	1,836	-1,294	3,130
2016	48,602	25,874	74,476	1,745	-1,392	3,136
2017	46,172	28,450	74,622	1,657	-1,485	3,143
2018	43,864	30,904	74,768			
2019	41,670	33,244	74,914			
2020	39,587	35,473	75,060			



■ Indigenous supply
 ■ Imports
 ■ Exports
▨ EMO Production
 ▨ Calculated imports
 - - - Demand

2. UK Gas Data – 1882 to 2008 with projections to 2020

Data Source: *Historical gas data: gas production and consumption and fuel input 1882 to 2008*

URL: http://www.decc.gov.uk/media/viewfile.ashx?filepath=statistics/publications/energytrends/1_20090731152442_e_@@_gassince1882.xls&filetype=4

Source data (GW-h)

Year	Town gas supply	Natural gas supply	Total Natural gas supply	Natural gas imports	Natural gas exports	Natural gas production
1882	6,359					
1883	6,683					
1884	6,976					
1885	7,296					
1886	7,592					
1887	7,862					
1888	8,035					
1889	8,332					
1890	8,661					
1891	9,134					
1892	9,334					
1893	9,155					
1894	9,363					
1895	9,922					
1896	10,310					
1897	10,872					
1898	11,194					
1899	11,848					
1900	12,258					
1901	12,537					
1902	12,855					
1903	13,130					
1904	13,596					
1905	14,098					
1906	14,709					

Standardised data (PJ)

Year	Indigenous supply	Imports	Exports	EMO Production	Calc. imports	Town gas supply	Natural gas supply
1882						23	
1883						24	
1884						25	
1885						26	
1886						27	
1887						28	
1888						29	
1889						30	
1890						31	
1891						33	
1892						34	
1893						33	
1894						34	
1895						36	
1896						37	
1897						39	
1898						40	
1899						43	
1900						44	
1901						45	
1902						46	
1903						47	
1904						49	
1905						51	
1906						53	

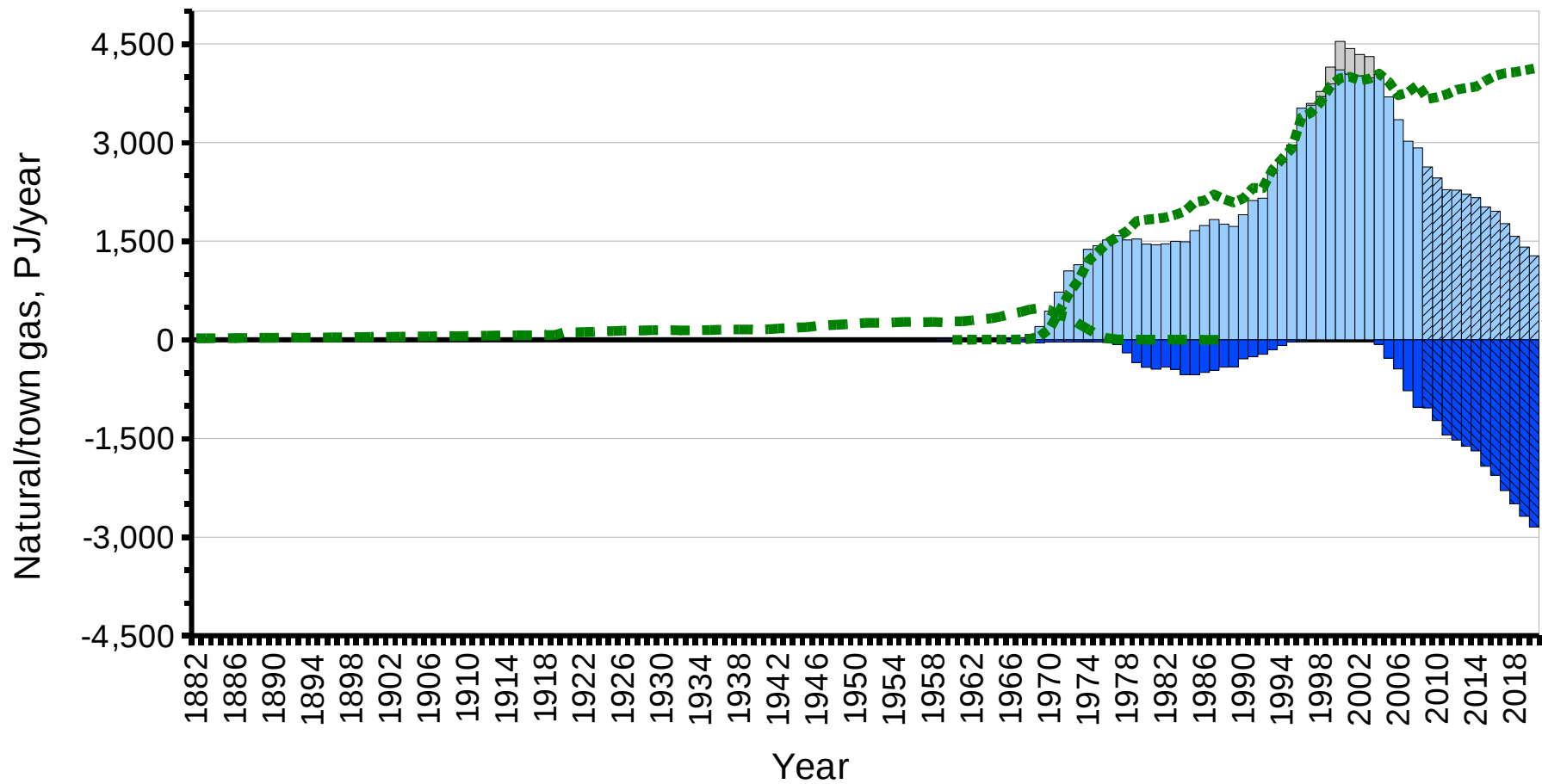
1907	15,131		1907	54
1908	15,282		1908	55
1909	15,704		1909	57
1910	16,124		1910	58
1911	16,705		1911	60
1912	17,614		1912	63
1913	18,198		1913	66
1914	18,570		1914	67
1915			1915	68
1916			1916	69
1917			1917	71
1918			1918	72
1919	20,393		1919	73
1920	32,908	32,908	1920	118
1921	32,024	32,024	1921	115
1922	32,517	32,517	1922	117
1923	33,778	33,778	1923	122
1924	35,912	35,912	1924	129
1925	37,151	37,151	1925	134
1926	38,663	38,663	1926	139
1927	39,171	39,171	1927	141
1928	39,482	39,482	1928	142
1929	40,904	40,904	1929	147
1930	40,539	40,539	1930	146
1931	40,722	40,722	1931	147
1932	40,203	40,203	1932	145
1933	40,001	40,001	1933	144
1934	40,548	40,548	1934	146
1935	41,186	41,186	1935	148
1936	42,964	42,964	1936	155
1937	43,860	43,860	1937	158
1938	43,940	43,940	1938	158
1939	43,904	43,904	1939	158
1940	42,252	42,252	1940	152
1941	44,644	44,644	1941	161
1942	47,932	47,932	1942	173
1943	49,558	49,558	1943	178

1944	51,873		51,873			1944				187	
1945	53,368		53,368			1945				192	
1946	58,673		58,673			1946				211	
1947	61,369		61,369			1947				221	
1948	63,831		63,831			1948				230	
1949	65,677		65,677			1949				236	
1950	68,490		68,490			1950				247	
1951	71,773		71,773			1951				258	
1952	71,890		71,890			1952				259	
1953	71,392		71,392			1953				257	
1954	74,059		74,059			1954				267	
1955	75,700		75,700			1955				273	
1956	75,934		75,934			1956				273	
1957	74,352		74,352			1957				268	
1958	75,524		75,524			1958				272	
1959	73,707		73,707	117		1959	0	0	0	265	
1960	79,012	440	79,452	29	791	1960	3	0	0	284	2
1961	78,513	440	78,602		821	1961	3	0	0	283	2
1962	82,441	733	83,174		1,231	1962	4	0	0	297	3
1963	87,482	1,026	88,508		1,641	1963	6	0	0	315	4
1964	90,090	1,026	91,468	1,172	1,846	1964	7	-4	0	324	4
1965	98,648	1,143	99,791	7,620	1,934	1965	7	-27	0	355	4
1966	108,905	1,202	110,107	7,444	1,876	1966	7	-27	0	392	4
1967	117,316	1,319	118,635	8,939	6,741	1967	24	-32	0	422	5
1968	128,336	3,986	132,322	11,606	23,768	1968	86	-42	0	462	14
1969	133,816	15,093	148,909	12,192	56,797	1969	204	-44	0	482	54
1970	125,933	45,631	171,564	9,759	121,712	1970	438	-35	0	453	164
1971	104,245	118,371	222,616	9,730	201,721	1971	726	-35	0	375	426
1972	95,834	194,453	290,287	8,968	291,078	1972	1,048	-32	0	345	700
1973	68,286	251,631	319,917	8,587	317,132	1973	1,142	-31	0	246	906
1974	44,840	332,548	377,388	7,122	382,253	1974	1,376	-26	0	161	1,197
1975	20,984	370,237	391,250	9,818	397,932	1975	1,433	-35	0	76	1,333
1976	6,272	411,120	417,655	11,254	421,700	1976	1,518	-41	0	23	1,480
1977	2,051	434,742	436,793	19,548	440,544	1977	1,586	-70	0	7	1,565
1978	938	459,359	460,297	55,361	422,257	1978	1,520	-199	0	3	1,654
1979	1,055	501,327	502,382	95,424	425,832	1979	1,533	-344	0	4	1,805
1980	909	507,775	508,684	116,291	404,760	1980	1,457	-419	0	3	1,828

1981	791	511,321	512,112	124,262		401,742	1981	1,446	-447	0	3	1,841	
1982	674	517,475	518,149	115,001		405,815	1982	1,461	-414	0	2	1,863	
1983	528	528,114	528,642	124,497		416,454	1983	1,499	-448	0	2	1,901	
1984	498	544,086	544,584	147,415		414,314	1984	1,492	-531	0	2	1,959	
1985	469	581,248	581,717	147,122		461,851	1985	1,663	-530	0	2	2,092	
1986	410	588,281	588,691	137,099		483,040	1986	1,739	-494	0	1	2,118	
1987	322	613,925	614,247	128,893		508,126	1987	1,829	-464	0	1	2,210	
1988	88	594,678	594,766	115,441		489,133	1988	1,761	-416	0	0	2,141	
1989		580,522	580,522	113,770		478,931	1989	1,724	-410	0		2,090	
1990		597,046	597,046	79,833		528,843	1990	1,904	-287	0		2,149	
1991		641,763	641,763	72,007		588,822	1991	2,120	-259	0		2,310	
1992		640,818	640,818	61,255	620	598,761	1992	2,156	-218	0		2,307	
1993		717,357	717,357	48,528	6,824	703,971	1993	2,534	-150	0		2,582	
1994		764,667	764,667	33,053	9,557	751,588	1994	2,706	-85	0		2,753	
1995		808,786	808,786	19,457	11,232	823,336	1995	2,964	-30	0		2,912	
1996		938,848	938,848	19,804	15,203	979,019	1996	3,524	-17	0		3,380	
1997		960,243	960,243	14,062	21,666	998,871	1997	3,569	0	27		3,457	
1998		1,005,306	1,005,306	10,582	31,604	1,048,859	1998	3,700	0	76		3,619	
1999		1,072,963	1,072,963	12,862	84,433	1,152,635	1999	3,892	0	258		3,863	
2000		1,105,537	1,105,537	26,032	146,342	1,260,656	2000	4,105	0	433		3,980	
2001		1,111,729	1,111,729	30,464	138,330	1,231,263	2001	4,044	0	388		4,002	
2002		1,096,267	1,096,267	60,493	150,731	1,205,405	2002	4,015	0	325		3,947	
2003		1,102,774	1,102,774	86,298	177,039	1,197,030	2003	3,983	0	327		3,970	
2004		1,124,996	1,124,996	133,033	114,112	1,121,257	2004	4,037	-68	0		4,050	
2005		1,090,291	1,090,291	173,328	96,181	1,025,989	2005	3,694	-278	0		3,925	
2006		1,033,439	1,033,439	244,029	120,591	930,538	2006	3,350	-444	0		3,720	
2007		1,046,067	1,046,067	338,026	123,158	838,809	2007	3,020	-774	0		3,766	
2008		1,077,003	1,077,003	407,054	122,670	810,284	2008	2,917	-1,024	0		3,877	
							2009				2,628	-1,037	3,665
							2010				2,462	-1,228	3,690
							2011				2,284	-1,449	3,733
							2012				2,278	-1,526	3,804
							2013				2,213	-1,618	3,831
							2014				2,162	-1,688	3,849
DECC/Ofgem: Energy Markets Outlook													
	Production, bcm	Imports, bcm	Demand proj., bcm										
Year	Chart 5.6 – base (adj)	(calculated)	Chart 5.4 – base (adj)										
2009	81	32	114										
2010	76	38	114										

2011	71	45	116
2012	71	47	118
2013	69	50	119
2014	67	52	119
2015	63	60	122
2016	61	64	124
2017	55	71	126
2018	49	77	126
2019	44	83	127
2020	40	88	128

2015	2,022	-1,922	3,944
2016	1,957	-2,059	4,015
2017	1,766	-2,292	4,057
2018	1,575	-2,495	4,071
2019	1,412	-2,685	4,097
2020	1,277	-2,849	4,127



Indigenous supply
 Imports
 Exports
 EMO Production

Calc. imports
 Town gas supply
 Natural gas supply

3. UK Coal Data – 1853 to 2008 with projections to 2020

Data source: *Historical coal data – coal production, availability and consumption 1853 to 2008*

URL: http://www.decc.gov.uk/media/viewfile.ashx?filepath=statistics/publications/energytrends/1_20090731152425_e_@@_coalsince1853.xls&filetype=4

Source data (Mte)

Standardised data (PJ)

Conversion factor:

26.0 PJ/Mte

Year	Production	Supply	Imports	Exports	Year	Indigenous supply	Imports	Exports	EMO Production	Calc. imports	Coal supply
1853					1853	1,302	0	106			1,302
1854					1854	1,382	0	117			1,382
1855					1855	1,461	0	128			1,461
1856					1856	1,540	0	139			1,540
1857					1857	1,619	0	150			1,619
1858	71.5	65.3		6.2	1858	1,699	0	161			1,699
1859					1859	1,778	0	172			1,778
1860					1860	1,857	0	183			1,857
1861					1861	1,936	0	194			1,936
1862					1862	2,016	0	204			2,016
1863					1863	2,095	0	215			2,095
1864					1864	2,174	0	226			2,174
1865					1865	2,253	0	237			2,253
1866					1866	2,333	0	248			2,333
1867					1867	2,412	0	259			2,412
1868	106.2	95.8		10.4	1868	2,491	0	270			2,491
1869					1869	2,554	0	295			2,554
1870					1870	2,618	0	321			2,618
1871					1871	2,681	0	346			2,681
1872					1872	2,745	0	371			2,745
1873					1873	2,808	0	396			2,808
1874					1874	2,871	0	422			2,871
1875					1875	2,935	0	447			2,935
1876					1876	2,998	0	472			2,998
1877					1877	3,062	0	497			3,062
1878	140.3	120.2		20.1	1878	3,125	0	523			3,125
1879					1879	3,175	0	557			3,175
1880					1880	3,225	0	591			3,225
1881					1881	3,276	0	624			3,276

1882				1882	3,326	0	658	3,326
1883				1883	3,376	0	692	3,376
1884				1884	3,426	0	726	3,426
1885				1885	3,476	0	760	3,476
1886				1886	3,527	0	794	3,527
1887				1887	3,577	0	828	3,577
1888	172.6	139.5	33.1	1888	3,627	0	862	3,627
1889				1889	3,676	0	901	3,676
1890				1890	3,724	0	941	3,724
1891				1891	3,773	0	981	3,773
1892				1892	3,821	0	1,020	3,821
1893				1893	3,870	0	1,060	3,870
1894				1894	3,919	0	1,100	3,919
1895				1895	3,967	0	1,139	3,967
1896				1896	4,016	0	1,179	4,016
1897				1897	4,064	0	1,218	4,064
1898	206.6	158.2	48.4	1898	4,113	0	1,258	4,113
1899				1899	4,172	0	1,312	4,172
1900				1900	4,231	0	1,366	4,231
1901				1901	4,290	0	1,420	4,290
1902				1902	4,349	0	1,474	4,349
1903				1903	4,408	0	1,528	4,408
1904				1904	4,466	0	1,582	4,466
1905				1905	4,525	0	1,636	4,525
1906				1906	4,584	0	1,690	4,584
1907				1907	4,643	0	1,744	4,643
1908	250.0	180.8	77.2	1908	4,702	0	1,798	4,702
1909				1909	4,781	0	1,771	4,781
1910				1910	4,861	0	1,743	4,861
1911				1911	4,940	0	1,716	4,940
1912				1912	5,019	0	1,689	5,019
1913	260.0	196.1	95.9	1913	5,098	0	1,662	5,098
1914	264.0	191.1	78.8	1914	4,969	0	1,895	4,969
1915	257.3	199.1	58.1	1915	5,178	0	1,511	5,178
1916	260.5	208.4	52.1	1916	5,418	0	1,354	5,418
1917	252.5	206.6	45.9	1917	5,370	0	1,194	5,370
1918	231.4	190.2	41.1	1918	4,945	0	1,071	4,945

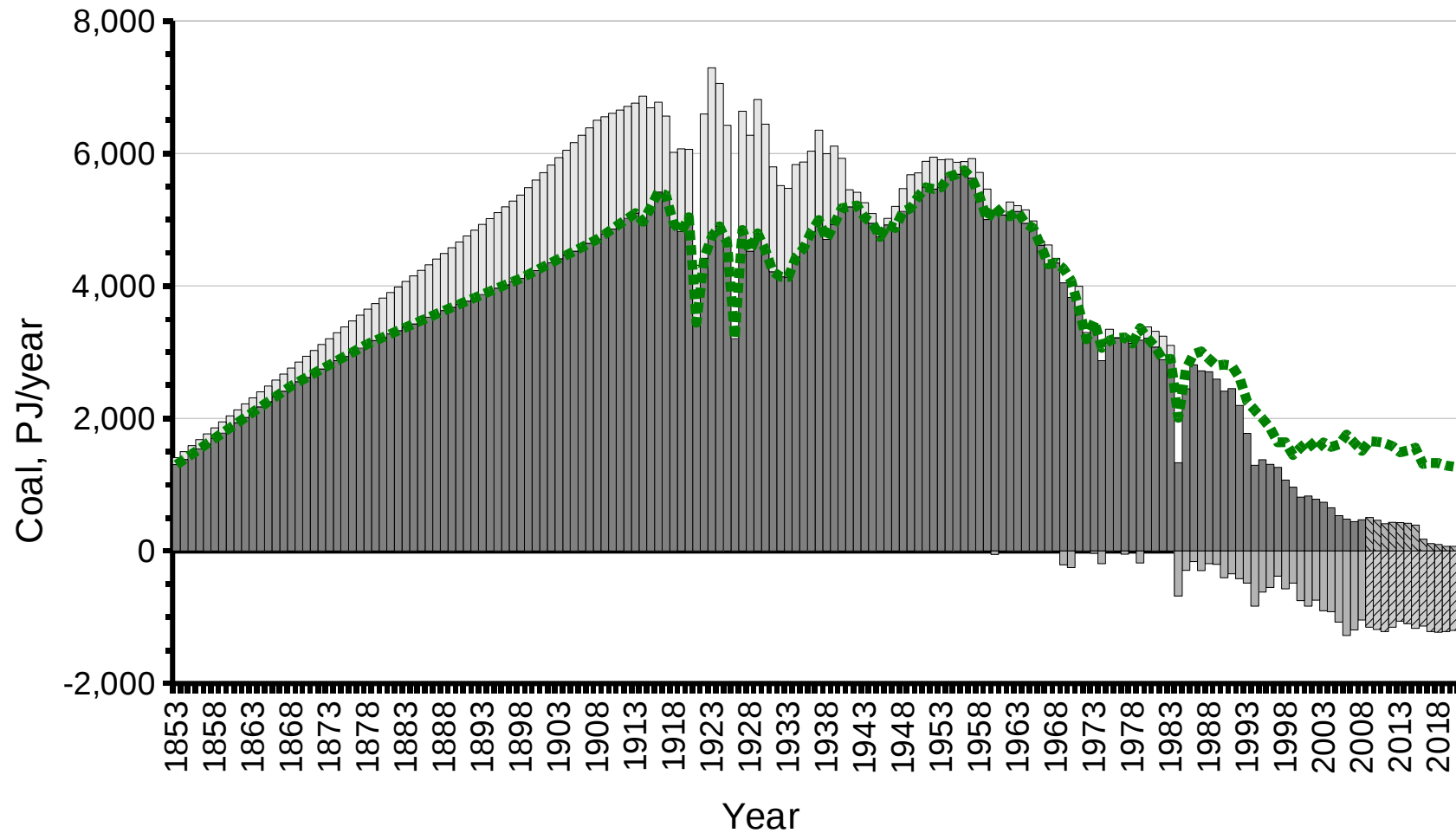
1919	233.5	185.4	48.1	1919	4,821	0	1,249	4,821
1920	233.2	193.8	39.4	1920	5,038	0	1,026	5,038
1921	165.9	132.5	36.2	1921	3,445	0	868	3,445
1922	253.6	169.9	83.8	1922	4,417	0	2,177	4,417
1923	280.4	182.6	99.0	1923	4,747	0	2,544	4,747
1924	271.4	188.5	80.5	1924	4,900	0	2,156	4,900
1925	247.1	179.2	68.2	1925	4,660	0	1,764	4,660
1926	128.3	123.2	28.5	1926	3,204	0	132	3,204
1927	255.3	186.3	68.8	1927	4,845	0	1,792	4,845
1928	241.3	174.0	67.7	1928	4,525	0	1,748	4,525
1929	262.0	184.4	77.7	1929	4,795	0	2,018	4,795
1930	247.8	174.7	71.4	1930	4,541	0	1,901	4,541
1931	223.0	162.1	58.0	1931	4,213	0	1,584	4,213
1932	212.1	159.1	53.7	1932	4,137	0	1,377	4,137
1933	210.4	159.0	53.0	1933	4,134	0	1,337	4,134
1934	224.3	170.5	53.7	1934	4,433	0	1,398	4,433
1935	225.8	175.7	51.7	1935	4,567	0	1,304	4,567
1936	232.1	185.1	47.0	1936	4,813	0	1,222	4,813
1937	244.3	192.1	52.6	1937	4,995	0	1,355	4,995
1938	230.6	180.8	46.8	1938	4,702	0	1,294	4,702
1939	235.0	189.6	47.0	1939	4,929	0	1,182	4,929
1940	227.9	198.9	26.9	1940	5,172	0	753	5,172
1941	209.6	199.7	9.6	1941	5,193	0	257	5,193
1942	208.2	200.6	7.9	1942	5,215	0	199	5,215
1943	202.1	193.4	8.1	1943	5,030	0	225	5,030
1944	195.8	190.3	6.2	1944	4,948	0	144	4,948
1945	185.7	182.3	8.7	1945	4,739	0	89	4,739
1946	193.1	189.3	8.9	1946	4,921	0	100	4,921
1947	200.1	187.5	5.4	1947	4,874	0	328	4,874
1948	210.3	197.0	16.4	1948	5,122	0	346	5,122
1949	218.3	198.9	19.5	1949	5,172	0	505	5,172
1950	219.5	205.8	17.2	1950	5,352	0	354	5,352
1951	226.2	211.1	11.6	1951	5,489	0	391	5,489
1952	228.5	210.1	15.1	1952	5,463	0	478	5,463
1953	227.1	211.1	16.9	1953	5,489	0	415	5,489
1954	227.4	217.2	16.3	1954	5,648	0	264	5,648
1955	225.7	218.6	14.1	1955	5,685	0	182	5,685

1956	226.1	221.0		9.9	1956	5,745	0	132	5,745
1957	227.8	216.3		8.0	1957	5,624	0	299	5,624
1958	219.8	205.6		5.0	1958	5,347	0	367	5,347
1959	210.1	192.4		4.4	1959	5,003	0	460	5,003
1960	197.8	199.9		5.6	1960	5,144	-53	0	5,196
1961	195.0	194.9		5.8	1961	5,067	0	4	5,067
1962	202.6	194.3		4.9	1962	5,051	0	218	5,051
1963	200.5	197.1		7.6	1963	5,125	0	87	5,125
1964	198.1	190.2		6.1	1964	4,945	0	204	4,945
1965	191.6	187.6		3.8	1965	4,877	0	106	4,877
1966	179.9	177.5		2.8	1966	4,615	0	63	4,615
1967	177.7	166.4		1.9	1967	4,327	0	292	4,327
1968	169.9	167.1		2.7	1968	4,346	0	72	4,346
1969	155.7	163.7		3.5	1969	4,048	-209	0	4,257
1970	147.2	156.9	0.1	3.2	1970	3,827	-252	0	4,079
1971	153.7	140.9	4.2	2.7	1971	3,664	0	332	3,664
1972	126.8	122.9	5.0	1.8	1972	3,195	0	103	3,195
1973	132.0	133.4	1.7	2.7	1973	3,432	-36	0	3,468
1974	110.5	117.9	3.5	1.6	1974	2,872	-193	0	3,065
1975	128.7	122.2	5.1	1.9	1975	3,178	0	168	3,178
1976	123.8	123.6	2.8	1.2	1976	3,214	0	5	3,214
1977	122.2	124.0	2.4	1.8	1977	3,176	-48	0	3,223
1978	123.6	120.5	2.4	2.3	1978	3,132	0	81	3,132
1979	122.4	129.4	4.4	2.2	1979	3,182	-182	0	3,364
1980	130.1	123.5	7.3	3.8	1980	3,210	0	173	3,210
1981	127.5	118.4	4.3	9.1	1981	3,078	0	236	3,078
1982	124.7	111.0	4.1	7.4	1982	2,886	0	357	2,886
1983	119.3	111.5	4.5	6.6	1983	2,898	0	202	2,898
1984	51.2	77.3	8.9	2.3	1984	1,331	-679	0	2,010
1985	94.1	105.4	12.7	2.4	1985	2,447	-293	0	2,740
1986	108.1	114.2	10.6	2.7	1986	2,811	-160	0	2,970
1987	104.5	115.9	9.8	2.4	1987	2,718	-295	0	3,013
1988	104.1	111.5	11.7	1.8	1988	2,706	-193	0	2,899
1989	99.8	107.6	12.1	2.0	1989	2,595	-202	0	2,797
1990	92.8	108.3	14.8	2.5	1990	2,412	-403	0	2,815
1991	94.2	107.5	19.6	1.7	1991	2,449	-346	0	2,795
1992	84.5	100.6	20.3	1.0	1992	2,197	-418	0	2,615

1993	68.2	86.8	18.4	1.1	1993	1,773	-483	0	2,256
1994	49.8	81.8	15.1	1.2	1994	1,294	-832	0	2,126
1995	53.0	76.9	15.9	0.9	1995	1,379	-622	0	2,000
1996	50.2	71.4	17.8	1.0	1996	1,305	-551	0	1,856
1997	48.5	63.1	19.8	1.1	1997	1,261	-379	0	1,640
1998	41.2	63.2	21.2	1.0	1998	1,071	-571	0	1,642
1999	37.1	55.7	20.3	0.8	1999	964	-485	0	1,449
2000	31.2	60.0	23.4	0.7	2000	811	-749	0	1,560
2001	31.9	63.9	35.5	0.6	2001	830	-831	0	1,661
2002	30.0	58.6	28.7	0.5	2002	780	-744	0	1,524
2003	28.3	63.0	31.9	0.5	2003	735	-903	0	1,638
2004	25.1	60.4	36.2	0.6	2004	652	-918	0	1,570
2005	20.5	61.8	44.0	0.5	2005	533	-1,075	0	1,608
2006	18.5	67.5	50.5	0.4	2006	481	-1,274	0	1,756
2007	17.0	62.8	43.4	0.5	2007	442	-1,191	0	1,634
2008	18.1	58.1	43.9	0.6	2008	469	-1,041	0	1,511

DECC/Ofgem: Energy Markets Outlook

Year	Production, Mte Chart 5.6 – base	Imports, Mte (calcula- ted)	Demand proj., Mte Chart 6.4 – UEP c.						
2009	19.48	44.2	63.7	2009		506	-1,150		1,656
2010	17.8	45.6	63.4	2010		463	-1,185		1,648
2011	15.8	46.8	62.6	2011		412	-1,216		1,628
2012	16.64	44.3	60.9	2012		433	-1,151		1,583
2013	16.43	40.8	57.25	2013		427	-1,061		1,488
2014	16.11	42.3	58.4	2014		419	-1,099		1,518
2015	15.04	44.9	59.99	2015		391	-1,169		1,560
2016	6.87	43.6	50.49	2016		179	-1,134		1,313
2017	4.32	46.8	51.08	2017		112	-1,216		1,328
2018	3.82	47.2	51.04	2018		99	-1,228		1,327
2019	2.75	46.8	49.58	2019		72	-1,218		1,289
2020	2.75	46.1	48.88	2020		72	-1,199		1,271



■ Indigenous supply ■ Imports □ Exports
 ▨ EMO Production ▩ Calc. imports ■ Coal supply

5. UK Primary Energy Balance – 1920 to 2008 with projections to 2020

Year	Oil indig.	Oil imports	Oil exports	Oil indig. proj.	Oil import proj.	Nat. gas indig.	Nat. gas imports	Nat. gas exports	Nat. gas indig. proj.	Nat. gas import proj.	Coal indig.	Coal imports	Coal exports
1920	10	-134	0								5,038	0	1,026
1921	7	-185	0								3,445	0	868
1922	9	-182	0								4,417	0	2,177
1923	10	-196	0								4,747	0	2,544
1924	10	-229	0								4,900	0	2,156
1925	8	-226	0								4,660	0	1,764
1926	7	-283	0								3,204	0	132
1927	7	-306	0								4,845	0	1,792
1928	7	-311	0								4,525	0	1,748
1929	7	-315	0								4,795	0	2,018
1930	7	-352	0								4,541	0	1,901
1931	6	-325	0								4,213	0	1,584
1932	5	-331	0								4,137	0	1,377
1933	5	-362	0								4,134	0	1,337
1934	5	-406	0								4,433	0	1,398
1935	5	-408	0								4,567	0	1,304
1936	5	-430	0								4,813	0	1,222
1937	5	-446	0								4,995	0	1,355
1938	5	-471	0								4,702	0	1,294
1939	6	-441	0								4,929	0	1,182
1940	6	-483	0								5,172	0	753
1941	7	-553	0								5,193	0	257
1942	10	-439	0								5,215	0	199
1943	11	-636	0								5,030	0	225
1944	10	-859	0								4,948	0	144
1945	8	-664	0								4,739	0	89
1946	7	-596	0								4,921	0	100
1947	6	-528	0								4,874	0	328
1948	7	-746	0								5,122	0	346

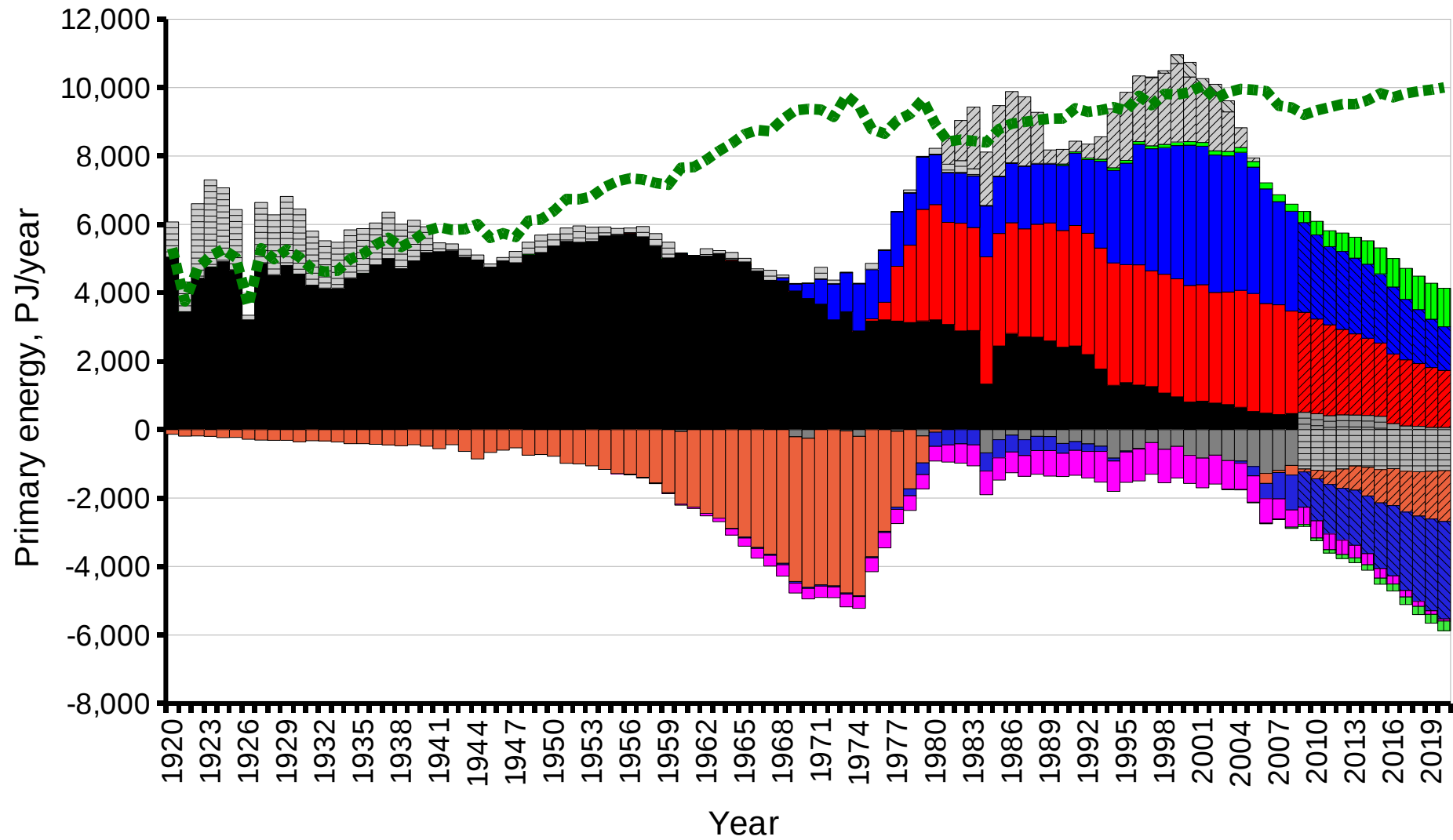
Coal indig. proj.	Coal import proj.	Nuclear import	Nuclear import proj.	Renew. indig.	Renew. Import	Renew. indig. Proj.	Renew. Import proj.	Total supply	Year	Oil supply	Gas supply	Coal supply	Nuclear supply	Renew. supply
0	0	0	0	0	0	0	0	5,299	1920	143	118	5,038	0	0
0	0	0	0	0	0	0	0	3,751	1921	191	115	3,445	0	0
0	0	0	0	0	0	0	0	4,725	1922	191	117	4,417	0	0
0	0	0	0	0	0	0	0	5,074	1923	205	122	4,747	0	0
0	0	0	0	0	0	0	0	5,268	1924	239	129	4,900	0	0
0	0	0	0	0	0	0	0	5,028	1925	235	134	4,660	0	0
0	0	0	0	0	0	0	0	3,633	1926	290	139	3,204	0	0
0	0	0	0	0	0	0	0	5,300	1927	314	141	4,845	0	0
0	0	0	0	0	0	0	0	4,986	1928	318	142	4,525	0	0
0	0	0	0	1	0	0	0	5,265	1929	322	147	4,795	0	1
0	0	0	0	1	0	0	0	5,047	1930	359	146	4,541	0	1
0	0	0	0	1	0	0	0	4,693	1931	331	147	4,213	0	1
0	0	0	0	1	0	0	0	4,619	1932	336	145	4,137	0	1
0	0	0	0	2	0	0	0	4,646	1933	367	144	4,134	0	2
0	0	0	0	2	0	0	0	4,992	1934	411	146	4,433	0	2
0	0	0	0	2	0	0	0	5,131	1935	413	148	4,567	0	2
0	0	0	0	3	0	0	0	5,405	1936	435	155	4,813	0	3
0	0	0	0	4	0	0	0	5,608	1937	451	158	4,995	0	4
0	0	0	0	4	0	0	0	5,340	1938	476	158	4,702	0	4
0	0	0	0	3	0	0	0	5,537	1939	447	158	4,929	0	3
0	0	0	0	3	0	0	0	5,816	1940	489	152	5,172	0	3
0	0	0	0	4	0	0	0	5,918	1941	560	161	5,193	0	4
0	0	0	0	5	0	0	0	5,840	1942	448	173	5,215	0	5
0	0	0	0	4	0	0	0	5,859	1943	647	178	5,030	0	4
0	0	0	0	4	0	0	0	6,007	1944	868	187	4,948	0	4
0	0	0	0	4	0	0	0	5,607	1945	672	192	4,739	0	4
0	0	0	0	4	0	0	0	5,740	1946	603	211	4,921	0	4
0	0	0	0	3	0	0	0	5,632	1947	535	221	4,874	0	3
0	0	0	0	3	0	0	0	6,107	1948	753	230	5,122	0	3























1949	7	-725	0				5,172	0	505
1950	7	-778	0				5,352	0	354
1951	6	-981	0				5,489	0	391
1952	7	-1,001	0				5,463	0	478
1953	7	-1,059	0				5,489	0	415
1954	7	-1,163	0				5,648	0	264
1955	6	-1,291	0				5,685	0	182
1956	6	-1,307	0				5,745	0	132
1957	7	-1,401	0				5,624	0	299
1958	6	-1,559	0				5,347	0	367
1959	6	-1,845	0	0	0	0	5,003	0	460
1960	6	-2,120	0	3	0	0	5,144	-53	0
1961	6	-2,258	0	3	0	0	5,067	0	4
1962	5	-2,443	0	4	0	0	5,051	0	218
1963	5	-2,587	0	6	0	0	5,125	0	87
1964	5	-2,892	0	7	-4	0	4,945	0	204
1965	3	-3,138	0	7	-27	0	4,877	0	106
1966	3	-3,444	0	7	-27	0	4,615	0	63
1967	4	-3,640	0	24	-32	0	4,327	0	292
1968	4	-3,905	0	86	-42	0	4,346	0	72
1969	4	-4,231	0	204	-44	0	4,048	-209	0
1970	7	-4,353	0	438	-35	0	3,827	-252	0
1971	9	-4,537	0	726	-35	0	3,664	0	332
1972	14	-4,563	0	1,048	-32	0	3,195	0	103
1973	16	-4,737	0	1,142	-31	0	3,432	-36	0
1974	17	-4,661	0	1,376	-26	0	2,872	-193	0
1975	65	-3,714	0	1,433	-35	0	3,178	0	168
1976	509	-2,969	0	1,518	-41	0	3,214	0	5
1977	1,602	-2,210	0	1,586	-70	0	3,176	-48	0
1978	2,261	-1,731	0	1,520	-199	0	3,132	0	81
1979	3,255	-790	0	1,533	-344	0	3,182	-182	0
1980	3,369	-70	0	1,457	-419	0	3,210	0	173
1981	2,983	0	762	1,446	-447	0	3,078	0	236
1982	3,148	0	1,174	1,461	-414	0	2,886	0	357
1983	3,012	0	1,801	1,499	-448	0	2,898	0	202
1984	3,718	0	1,560	1,492	-531	0	1,331	-679	0
1985	3,286	0	2,057	1,663	-530	0	2,447	-293	0

0	0	0	0	4	0	0	0	6,144	1949	732	236	5,172	0	4
0	0	0	0	6	0	0	0	6,390	1950	785	247	5,352	0	6
0	0	0	0	7	0	0	0	6,742	1951	988	258	5,489	0	7
0	0	0	0	7	0	0	0	6,736	1952	1,008	259	5,463	0	7
0	0	0	0	9	0	0	0	6,820	1953	1,065	257	5,489	0	9
0	0	0	0	6	0	0	0	7,091	1954	1,170	267	5,648	0	6
0	0	-1	0	8	0	0	0	7,263	1955	1,297	273	5,685	1	8
0	0	-5	0	10	0	0	0	7,347	1956	1,313	273	5,745	5	10
0	0	-4	0	10	0	0	0	7,313	1957	1,408	268	5,624	4	10
0	0	-16	0	10	0	0	0	7,209	1958	1,565	272	5,347	16	10
0	0	-27	0	11	0	0	0	7,158	1959	1,851	265	5,003	27	11
0	0	-31	0	14	0	0	0	7,654	1960	2,126	286	5,196	31	14
0	0	-46	0	14	0	0	0	7,675	1961	2,265	284	5,067	46	14
0	0	-78	0	13	0	0	0	7,890	1962	2,448	299	5,051	78	13
0	0	-100	0	14	0	0	0	8,150	1963	2,592	319	5,125	100	14
0	0	-182	0	17	0	0	0	8,369	1964	2,898	328	4,945	182	17
0	0	-243	0	16	0	0	0	8,637	1965	3,142	359	4,877	243	16
0	0	-280	0	18	0	0	0	8,756	1966	3,447	396	4,615	280	18
0	0	-314	0	13	0	0	0	8,725	1967	3,643	427	4,327	314	13
0	0	-331	0	12	0	0	0	9,074	1968	3,909	476	4,346	331	12
0	0	-293	0	16	0	0	0	9,337	1969	4,234	536	4,257	293	16
0	0	-309	0	12	0	0	0	9,377	1970	4,360	618	4,079	309	12
0	0	-330	0	12	0	0	0	9,353	1971	4,546	801	3,664	330	12
0	0	-312	0	14	0	0	0	9,144	1972	4,577	1,045	3,195	312	14
0	0	-376	0	15	0	0	0	9,762	1973	4,752	1,152	3,468	376	15
0	0	-340	0	14	0	0	0	9,456	1974	4,678	1,359	3,065	340	14
0	0	-400	0	16	0	0	0	8,782	1975	3,779	1,408	3,178	400	16
0	0	-445	0	14	0	0	0	8,654	1976	3,478	1,503	3,214	445	14
0	0	-417	0	15	0	0	0	9,040	1977	3,812	1,572	3,223	417	15
0	0	-428	0	15	0	0	0	9,225	1978	3,992	1,657	3,132	428	15
0	0	-415	0	14	0	0	0	9,646	1979	4,045	1,809	3,364	415	14
0	0	-426	0	16	0	0	0	8,922	1980	3,439	1,831	3,210	426	16
0	0	-497	0	16	0	0	0	8,418	1981	2,983	1,844	3,078	497	16
0	0	-564	0	16	0	0	0	8,479	1982	3,148	1,865	2,886	564	16
0	0	-607	0	16	0	0	0	8,437	1983	3,012	1,903	2,898	607	16
0	0	-691	0	14	0	0	0	8,393	1984	3,718	1,961	2,010	691	14
0	0	-646	0	17	0	0	0	8,784	1985	3,286	2,094	2,740	646	17

1986	3,237	0	2,083		1,739	-494	0		2,811	-160	0
1987	3,151	0	2,013		1,829	-464	0		2,718	-295	0
1988	3,300	0	1,492		1,761	-416	0		2,706	-193	0
1989	3,447	0	392		1,724	-410	0		2,595	-202	0
1990	3,409	0	426		1,904	-287	0		2,412	-403	0
1991	3,517	0	304		2,120	-259	0		2,449	-346	0
1992	3,543	0	403		2,156	-218	0		2,197	-418	0
1993	3,538	0	657		2,534	-150	0		1,773	-483	0
1994	3,581	0	1,717		2,706	-85	0		1,294	-832	0
1995	3,447	0	1,991		2,964	-30	0		1,379	-622	0
1996	3,513	0	1,919		3,524	-17	0		1,305	-551	0
1997	3,382	0	1,987		3,569	0	27		1,261	-379	0
1998	3,476	0	2,077		3,700	0	76		1,071	-571	0
1999	3,447	0	2,293		3,892	0	258		964	-485	0
2000	3,402	0	1,884		4,105	0	433		811	-749	0
2001	3,410	0	1,475		4,044	0	388		830	-831	0
2002	3,233	0	1,621		4,015	0	325		780	-744	0
2003	3,287	0	1,154		3,983	0	327		735	-903	0
2004	3,419	0	574		4,037	-68	0		652	-918	0
2005	3,446	0	101		3,694	-278	0		533	-1,075	0
2006	3,206	-296	0		3,350	-444	0		481	-1,274	0
2007	3,206	-60	0		3,020	-774	0		442	-1,191	0
2008	3,000	-283	0		2,917	-1,024	0		469	-1,041	0
2009				2,921	-83			2,628	-1,037	0	0
2010				2,771	-251			2,462	-1,228	0	0
2011				2,654	-386			2,284	-1,449	0	0
2012				2,498	-559			2,278	-1,526	0	0
2013				2,373	-702			2,213	-1,618	0	0
2014				2,255	-839			2,162	-1,688	0	0
2015				2,142	-970			2,022	-1,922	0	0
2016				2,035	-1,083			1,957	-2,059	0	0
2017				1,933	-1,191			1,766	-2,292	0	0
2018				1,836	-1,294			1,575	-2,495	0	0
2019				1,745	-1,392			1,412	-2,685	0	0
2020				1,657	-1,485			1,277	-2,849	0	0

0	0	-605	0	15	0	0	0	8,946	1986	3,237	2,119	2,970	605	15
0	0	-605	0	15	0	0	0	8,995	1987	3,151	2,211	3,013	605	15
0	0	-694	0	18	0	0	0	9,051	1988	3,300	2,141	2,899	694	18
0	0	-743	0	17	0	0	0	9,094	1989	3,447	2,090	2,797	743	17
0	0	-681	0	43	0	0	0	9,096	1990	3,409	2,149	2,815	681	43
0	0	-730	0	42	0	0	0	9,395	1991	3,517	2,310	2,795	730	42
0	0	-772	0	50	0	0	0	9,288	1992	3,543	2,307	2,615	772	50
0	0	-904	0	60	0	0	0	9,340	1993	3,538	2,582	2,256	904	60
0	0	-888	0	78	0	0	0	9,425	1994	3,581	2,753	2,126	888	78
0	0	-890	0	81	0	0	0	9,329	1995	3,447	2,912	2,000	890	81
0	0	-929	0	78	0	0	0	9,756	1996	3,513	3,380	1,856	929	78
0	0	-920	0	86	0	0	0	9,485	1997	3,382	3,457	1,640	920	86
0	0	-982	0	95	0	0	0	9,813	1998	3,476	3,619	1,642	982	95
0	0	-930	0	103	0	0	0	9,792	1999	3,447	3,863	1,449	930	103
0	0	-822	0	106	0	0	0	9,870	2000	3,402	3,980	1,560	822	106
0	0	-870	0	111	0	0	0	10,054	2001	3,410	4,002	1,661	870	111
0	0	-842	0	123	0	0	0	9,668	2002	3,233	3,947	1,524	842	123
0	0	-839	0	128	-5	0	0	9,867	2003	3,287	3,970	1,638	839	133
0	0	-760	0	142	-17	0	0	9,958	2004	3,419	4,050	1,570	760	158
0	0	-769	0	168	-18	0	0	9,934	2005	3,446	3,925	1,608	769	186
0	0	-717	0	179	-21	0	0	9,895	2006	3,502	3,720	1,756	717	199
0	0	-588	0	200	-16	0	0	9,469	2007	3,266	3,766	1,634	588	216
0	0	-499	0	207	-40	0	0	9,418	2008	3,284	3,877	1,511	499	247
506	-1,150	0	-498	0	0	320	-60	9,203	2009	3,004	3,665	1,656	498	380
463	-1,185	0	-500	0	0	393	-80	9,333	2010	3,022	3,690	1,648	500	473
412	-1,216	0	-455	0	0	467	-100	9,424	2011	3,040	3,733	1,628	455	567
433	-1,151	0	-411	0	0	540	-120	9,517	2012	3,058	3,804	1,583	411	660
427	-1,061	0	-367	0	0	613	-140	9,516	2013	3,076	3,831	1,488	367	753
419	-1,099	0	-323	0	0	686	-161	9,632	2014	3,094	3,849	1,518	323	847
391	-1,169	0	-279	0	0	759	-181	9,835	2015	3,112	3,944	1,560	279	940
179	-1,134	0	-235	0	0	833	-201	9,715	2016	3,118	4,015	1,313	235	1,033
112	-1,216	0	-191	0	0	906	-221	9,827	2017	3,124	4,057	1,328	191	1,127
99	-1,228	0	-147	0	0	979	-241	9,895	2018	3,130	4,071	1,327	147	1,220
72	-1,218	0	-103	0	0	1,052	-261	9,939	2019	3,136	4,097	1,289	103	1,313
72	-1,199	0	-59	0	0	1,125	-281	10,006	2020	3,143	4,127	1,271	59	1,407



-  Nat. gas exports
-  Oil exports
-  Coal exports
-  Renew. Import proj.
-  Nuclear import proj.
-  Renew. Import
-  Nuclear import
-  Nat. gas import proj.
-  Oil import proj.
-  Coal import proj.
-  Nat. gas imports
-  Oil imports
-  Coal imports
-  Renew. indig. Proj.
-  Nat. gas indig. proj.
-  Oil indig. proj.
-  Coal indig. proj.
-  Renew. indig.
-  Nat. gas indig.
-  Oil indig.
-  Coal indig.
-  Total supply

6. Energy Balance

Data Sources:

Debt Management Office – *Historical debt Dataset*

URL http://www.dmo.gov.uk/reportView.aspx?rptCode=D4A&rptName=37790042&reportpage=national_debt

Credit Action – *Debt Statistics* (monthly)

URL <http://www.creditaction.org.uk/debt-statistics.html>

Office for National Statistics – *Exports and imports of goods and services, Total balance (at current prices)*

URL <http://www.statistics.gov.uk/CCI/nscl.asp?ID=5821>

Year	Indigenous, %PEC	Debt, %GDP	Trade balance, £bn ('08)	PEC pro- duction	Production			Import					
					Total PEC	Oil	Gas	Coal	Renew- able	Oil	Gas	Coal	Nuclear
1890	133%	48%		3,724	2,802	0	0	3,724	-19	0	0		
1891	134%	46%		3,773	2,813	0	0	3,773	-21	0	0		
1892	135%	47%		3,821	2,824	0	0	3,821	-23	0	0		
1893	136%	47%		3,870	2,836	0	0	3,870	-26	0	0		
1894	138%	45%		3,919	2,847	0	0	3,919	-28	0	0		
1895	139%	43%		3,967	2,858	0	0	3,967	-30	0	0		
1896	140%	41%		4,016	2,869	0	0	4,016	-32	0	0		
1897	141%	40%		4,064	2,880	0	0	4,064	-34	0	0		
1898	142%	37%		4,113	2,892	0	0	4,113	-37	0	0		
1899	144%	34%		4,172	2,899	0	0	4,172	-39	0	0		
1900	146%	33%		4,231	2,906	0	0	4,231	-41	0	0		
1901	147%	35%		4,290	2,912	0	0	4,290	-43	0	0		
1902	149%	38%		4,349	2,919	0	0	4,349	-44	0	0		
1903	151%	39%		4,408	2,925	0	0	4,408	-46	0	0		
1904	152%	39%		4,466	2,932	0	0	4,466	-48	0	0		
1905	154%	37%		4,525	2,938	0	0	4,525	-49	0	0		
1906	156%	36%		4,584	2,945	0	0	4,584	-51	0	0		
1907	157%	34%		4,643	2,951	0	0	4,643	-52	0	0		
1908	159%	35%		4,702	2,958	0	0	4,702	-54	0	0		
1909	156%	33%		4,781	3,066	0	0	4,781	-55	0	0		
1910	153%	33%		4,861	3,174	0	0	4,861	-57	0	0		

Export

Supply

<i>Oil</i>	<i>Gas</i>	<i>Coal</i>	<i>Oil</i>	<i>Gas</i>	<i>Coal</i>	<i>Nuclear</i>	<i>Renew- able</i>
0	0	941	19	31	3,724		
0	0	981	21	33	3,773		
0	0	1,020	23	34	3,821		
0	0	1,060	26	33	3,870		
0	0	1,100	28	34	3,919		
0	0	1,139	30	36	3,967		
0	0	1,179	32	37	4,016		
0	0	1,218	34	39	4,064		
0	0	1,258	37	40	4,113		
0	0	1,312	39	43	4,172		
0	0	1,366	41	44	4,231		
0	0	1,420	43	45	4,290		
0	0	1,474	44	46	4,349		
0	0	1,528	46	47	4,408		
0	0	1,582	48	49	4,466		
0	0	1,636	49	51	4,525		
0	0	1,690	51	53	4,584		
0	0	1,744	52	54	4,643		
0	0	1,798	54	55	4,702		
0	0	1,771	55	57	4,781		
0	0	1,743	57	58	4,861		

1911	150%	30%	4,940	3,288	0	0	4,940	-65	0	0		
1912	148%	29%	5,019	3,402	0	0	5,019	-72	0	0		
1913	145%	27%	5,098	3,517	0	0	5,098	-80	0	0		
1914	157%	26%	4,969	3,161	0	0	4,969	-88	0	0		
1915	138%	36%	5,178	3,762	0	0	5,178	-95	0	0		
1916	130%	61%	5,418	4,167	0	0	5,418	-103	0	0		
1917	125%	90%	5,370	4,287	0	0	5,370	-111	0	0		
1918	124%	114%	4,945	3,992	0	0	4,945	-118	0	0		
1919	130%	136%	4,821	3,698	0	0	4,821	-126	0	0		
1920	121%	133%	5,047	4,155	10	0	5,038	0	-134	0	0	0
1921	125%	150%	3,451	2,768	7	0	3,445	0	-185	0	0	0
1922	182%	170%	4,425	2,431	9	0	4,417	0	-182	0	0	0
1923	198%	180%	4,757	2,408	10	0	4,747	0	-196	0	0	0
1924	165%	176%	4,910	2,983	10	0	4,900	0	-229	0	0	0
1925	149%	167%	4,668	3,130	8	0	4,660	0	-226	0	0	0
1926	95%	175%	3,211	3,362	7	0	3,204	0	-283	0	0	0
1927	144%	167%	4,852	3,367	7	0	4,845	0	-306	0	0	0
1928	146%	165%	4,532	3,096	7	0	4,525	0	-311	0	0	0
1929	155%	162%	4,802	3,098	7	0	4,795	0	-315	0	0	0
1930	152%	162%	4,549	2,999	7	0	4,541	1	-352	0	0	0
1931	142%	173%	4,221	2,962	6	0	4,213	1	-325	0	0	0
1932	134%	177%	4,143	3,097	5	0	4,137	1	-331	0	0	0
1933	131%	183%	4,140	3,165	5	0	4,134	1	-362	0	0	0
1934	129%	177%	4,439	3,447	5	0	4,433	2	-406	0	0	0
1935	124%	168%	4,574	3,679	5	0	4,567	2	-408	0	0	0
1936	120%	162%	4,820	4,028	5	0	4,813	2	-430	0	0	0
1937	122%	150%	5,003	4,094	5	0	4,995	3	-446	0	0	0
1938	121%	147%	4,711	3,888	5	0	4,702	4	-471	0	0	0
1939	118%	141%	4,938	4,198	6	0	4,929	4	-441	0	0	0
1940	106%	121%	5,181	4,911	6	0	5,172	3	-483	0	0	0
1941	95%	131%	5,203	5,499	7	0	5,193	3	-553	0	0	0
1942	96%	149%	5,228	5,468	10	0	5,215	4	-439	0	0	0
1943	92%	168%	5,045	5,456	11	0	5,030	5	-636	0	0	0
1944	87%	194%	4,962	5,676	10	0	4,948	4	-859	0	0	0
1945	89%	232%	4,751	5,326	8	0	4,739	4	-664	0	0	0
1946	91%	252%	-0.4	4,933	5,429	7	0	4,921	4	-596	0	0
1947	96%	245%	-0.6	4,884	5,085	6	0	4,874	4	-528	0	0

0	0	1,716	65	60	4,940		
0	0	1,689	72	63	5,019		
0	0	1,662	80	66	5,098		
0	0	1,895	88	67	4,969		
0	0	1,511	95	68	5,178		
0	0	1,354	103	69	5,418		
0	0	1,194	111	71	5,370		
0	0	1,071	118	72	4,945		
0	0	1,249	126	73	4,821		
0	0	1,026	143	118	5,038	0	0
0	0	868	191	115	3,445	0	0
0	0	2,177	191	117	4,417	0	0
0	0	2,544	205	122	4,747	0	0
0	0	2,156	239	129	4,900	0	0
0	0	1,764	235	134	4,660	0	0
0	0	132	290	139	3,204	0	0
0	0	1,792	314	141	4,845	0	0
0	0	1,748	318	142	4,525	0	0
0	0	2,018	322	147	4,795	0	0
0	0	1,901	359	146	4,541	0	1
0	0	1,584	331	147	4,213	0	1
0	0	1,377	336	145	4,137	0	1
0	0	1,337	367	144	4,134	0	1
0	0	1,398	411	146	4,433	0	2
0	0	1,304	413	148	4,567	0	2
0	0	1,222	435	155	4,813	0	2
0	0	1,355	451	158	4,995	0	3
0	0	1,294	476	158	4,702	0	4
0	0	1,182	447	158	4,929	0	4
0	0	753	489	152	5,172	0	3
0	0	257	560	161	5,193	0	3
0	0	199	448	173	5,215	0	4
0	0	225	647	178	5,030	0	5
0	0	144	868	187	4,948	0	4
0	0	89	672	192	4,739	0	4
0	0	100	603	211	4,921	0	4
0	0	328	535	221	4,874	0	4

1948	93%	217%	-0.2	5,132	5,532	7	0	5,122	3	-746	0	0	0	0
1949	96%	201%	-0.2	5,182	5,402	7	0	5,172	3	-725	0	0	0	0
1950	93%	197%	-0.1	5,362	5,787	7	0	5,352	4	-778	0	0	0	0
1951	90%	178%	-0.7	5,502	6,092	6	0	5,489	6	-981	0	0	0	0
1952	91%	164%	-0.1	5,476	5,999	7	0	5,463	7	-1,001	0	0	0	0
1953	90%	154%	-0.1	5,503	6,147	7	0	5,489	7	-1,059	0	0	0	0
1954	86%	149%	-0.1	5,663	6,562	7	0	5,648	9	-1,163	0	0	0	0
1955	84%	141%	-0.3	5,697	6,806	6	0	5,685	6	-1,291	0	0	0	0
1956	83%	134%	0.1	5,760	6,936	6	0	5,745	8	-1,307	0	0	-1	0
1957	84%	126%	0.1	5,640	6,748	7	0	5,624	10	-1,401	0	0	-5	0
1958	82%	121%	0.2	5,362	6,559	6	0	5,347	10	-1,559	0	0	-4	0
1959	78%	117%	0.0	5,019	6,421	6	0	5,003	10	-1,845	0	0	-16	0
1960	70%	110%	-0.4	5,164	7,364	6	3	5,144	11	-2,120	0	-53	-27	0
1961	69%	106%	-0.1	5,090	7,375	6	3	5,067	14	-2,258	0	0	-31	0
1962	69%	103%	-0.1	5,075	7,346	5	4	5,051	14	-2,443	0	0	-46	0
1963	67%	101%	-0.1	5,149	7,727	5	6	5,125	13	-2,587	0	0	-78	0
1964	64%	93%	-0.6	4,972	7,764	5	7	4,945	14	-2,892	-4	0	-100	0
1965	60%	87%	-0.3	4,904	8,145	3	7	4,877	17	-3,138	-27	0	-182	0
1966	56%	84%	-0.1	4,642	8,292	3	7	4,615	16	-3,444	-27	0	-243	0
1967	54%	81%	-0.4	4,373	8,032	4	24	4,327	18	-3,640	-32	0	-280	0
1968	52%	81%	-0.4	4,448	8,638	4	86	4,346	13	-3,905	-42	0	-314	0
1969	47%	74%	0.2	4,268	9,083	4	204	4,048	12	-4,231	-44	-209	-331	0
1970	47%	67%	0.4	4,288	9,222	7	438	3,827	16	-4,353	-35	-252	-293	0
1971	49%	60%	0.8	4,411	8,961	9	726	3,664	12	-4,537	-35	0	-309	0
1972	47%	58%	0.0	4,269	9,091	14	1,048	3,195	12	-4,563	-32	0	-330	0
1973	47%	52%	-1.7	4,603	9,719	16	1,142	3,432	14	-4,737	-31	-36	-312	0
1974	45%	50%	-3.9	4,280	9,535	17	1,376	2,872	15	-4,661	-26	-193	-376	0
1975	54%	46%	-1.5	4,689	8,611	65	1,433	3,178	14	-3,714	-35	0	-340	0
1976	61%	47%	-1.1	5,258	8,662	509	1,518	3,214	16	-2,969	-41	0	-400	0
1977	70%	48%	1.4	6,378	9,152	1,602	1,586	3,176	14	-2,210	-70	-48	-445	0
1978	75%	49%	2.7	6,928	9,195	2,261	1,520	3,132	15	-1,731	-199	0	-417	0
1979	82%	46%	1.2	7,985	9,729	3,255	1,533	3,182	15	-790	-344	-182	-428	0
1980	92%	43%	5.7	8,050	8,781	3,369	1,457	3,210	14	-70	-419	0	-415	0
1981	102%	46%	8.0	7,523	7,398	2,983	1,446	3,078	16	0	-447	0	-426	0
1982	109%	44%	6.1	7,511	6,892	3,148	1,461	2,886	16	0	-414	0	-497	0
1983	115%	43%	3.8	7,426	6,434	3,012	1,499	2,898	16	0	-448	0	-564	0
1984	96%	45%	0.7	6,556	6,813	3,718	1,492	1,331	16	0	-531	-679	-607	0

0	0	346	753	230	5,122	0	3
0	0	505	732	236	5,172	0	3
0	0	354	785	247	5,352	0	4
0	0	391	988	258	5,489	0	6
0	0	478	1,008	259	5,463	0	7
0	0	415	1,065	257	5,489	0	7
0	0	264	1,170	267	5,648	0	9
0	0	182	1,297	273	5,685	0	6
0	0	132	1,313	273	5,745	1	8
0	0	299	1,408	268	5,624	5	10
0	0	367	1,565	272	5,347	4	10
0	0	460	1,851	265	5,003	16	10
0	0	0	2,126	286	5,196	27	11
0	0	4	2,265	284	5,067	31	14
0	0	218	2,448	299	5,051	46	14
0	0	87	2,592	319	5,125	78	13
0	0	204	2,898	328	4,945	100	14
0	0	106	3,142	359	4,877	182	17
0	0	63	3,447	396	4,615	243	16
0	0	292	3,643	427	4,327	280	18
0	0	72	3,909	476	4,346	314	13
0	0	0	4,234	536	4,257	331	12
0	0	0	4,360	618	4,079	293	16
0	0	332	4,546	801	3,664	309	12
0	0	103	4,577	1,045	3,195	330	12
0	0	0	4,752	1,152	3,468	312	14
0	0	0	4,678	1,359	3,065	376	15
0	0	168	3,779	1,408	3,178	340	14
0	0	5	3,478	1,503	3,214	400	16
0	0	0	3,812	1,572	3,223	445	14
0	0	81	3,992	1,657	3,132	417	15
0	0	0	4,045	1,809	3,364	428	15
0	0	173	3,439	1,831	3,210	415	14
762	0	236	2,983	1,844	3,078	426	16
1,174	0	357	3,148	1,865	2,886	497	16
1,801	0	202	3,012	1,903	2,898	564	16
1,560	0	0	3,718	1,961	2,010	607	16

1985	108%	46%	5.1	7,410	6,866	3,286	1,663	2,447	14	0	-530	-293	-691	0
1986	111%	44%	-1.4	7,804	7,021	3,237	1,739	2,811	17	0	-494	-160	-646	0
1987	109%	46%	-3.1	7,713	7,064	3,151	1,829	2,718	15	0	-464	-295	-605	0
1988	104%	44%	-15.2	7,782	7,503	3,300	1,761	2,706	15	0	-416	-193	-605	0
1989	90%	39%	-18.9	7,785	8,697	3,447	1,724	2,595	18	0	-410	-202	-694	0
1990	88%	35%	-12.1	7,742	8,748	3,409	1,904	2,412	17	0	-287	-403	-743	0
1991	89%	35%	-3.9	8,129	9,111	3,517	2,120	2,449	43	0	-259	-346	-681	0
1992	89%	36%	-6.7	7,938	8,901	3,543	2,156	2,197	42	0	-218	-418	-730	0
1993	91%	40%	-4.9	7,896	8,644	3,538	2,534	1,773	50	0	-150	-483	-772	0
1994	99%	46%	-3.0	7,641	7,743	3,581	2,706	1,294	60	0	-85	-832	-904	0
1995	106%	49%	-0.9	7,868	7,415	3,447	2,964	1,379	78	0	-30	-622	-888	0
1996	106%	52%	0.6	8,423	7,962	3,513	3,524	1,305	81	0	-17	-551	-890	0
1997	109%	53%	4.5	8,290	7,583	3,382	3,569	1,261	78	0	0	-379	-929	0
1998	109%	49%	-6.8	8,333	7,672	3,476	3,700	1,071	86	0	0	-571	-920	0
1999	115%	47%	-13.5	8,398	7,314	3,447	3,892	964	95	0	0	-485	-982	0
2000	108%	45%	-18.0	8,422	7,784	3,402	4,105	811	103	0	0	-749	-930	0
2001	103%	43%	-24.0	8,390	8,180	3,410	4,044	830	106	0	0	-831	-822	0
2002	104%	42%	-28.1	8,138	7,806	3,233	4,015	780	111	0	0	-744	-870	0
2003	97%		-26.0	8,127	8,390	3,287	3,983	735	123	0	0	-903	-842	0
2004	87%		-32.5	8,236	9,492	3,419	4,037	652	128	0	-68	-918	-839	-5
2005	79%		-42.8	7,814	9,842	3,446	3,694	533	142	0	-278	-1,075	-760	-17
2006	72%		-41.5	7,206	10,007	3,206	3,350	481	168	-296	-444	-1,274	-769	-18
2007	71%		-44.9	6,846	9,609	3,206	3,020	442	179	-60	-774	-1,191	-717	-21
2008	69%		-37.2	6,587	9,539	3,000	2,917	469	200	-283	-1,024	-1,041	-588	-16
2009	69%	59%		6,263	9,071	2,921	2,628	506	207	-83	-1,037	-1,150	-499	-40
2010	65%			6,016	9,239	2,771	2,462	463	320	-251	-1,228	-1,185	-498	-60
2011	61%			5,744	9,374	2,654	2,284	412	393	-386	-1,449	-1,216	-500	-80
2012	60%			5,676	9,468	2,498	2,278	433	467	-559	-1,526	-1,151	-455	-100
2013	59%			5,553	9,467	2,373	2,213	427	540	-702	-1,618	-1,061	-411	-120
2014	57%	79%		5,448	9,582	2,255	2,162	419	613	-839	-1,688	-1,099	-367	-140
2015	54%			5,241	9,786	2,142	2,022	391	686	-970	-1,922	-1,169	-323	-161
2016	51%			4,930	9,665	2,035	1,957	179	759	-1,083	-2,059	-1,134	-279	-181
2017	47%			4,644	9,778	1,933	1,766	112	833	-1,191	-2,292	-1,216	-235	-201
2018	45%			4,417	9,846	1,836	1,575	99	906	-1,294	-2,495	-1,228	-191	-221
2019	43%			4,208	9,890	1,745	1,412	72	979	-1,392	-2,685	-1,218	-147	-241
2020	41%			4,058	9,956	1,657	1,277	72	1,052	-1,485	-2,849	-1,199	-103	-261

2,057	0	0	3,286	2,094	2,740	691	14
2,083	0	0	3,237	2,119	2,970	646	17
2,013	0	0	3,151	2,211	3,013	605	15
1,492	0	0	3,300	2,141	2,899	605	15
392	0	0	3,447	2,090	2,797	694	18
426	0	0	3,409	2,149	2,815	743	17
304	0	0	3,517	2,310	2,795	681	43
403	0	0	3,543	2,307	2,615	730	42
657	0	0	3,538	2,582	2,256	772	50
1,717	0	0	3,581	2,753	2,126	904	60
1,991	0	0	3,447	2,912	2,000	888	78
1,919	0	0	3,513	3,380	1,856	890	81
1,987	27	0	3,382	3,457	1,640	929	78
2,077	76	0	3,476	3,619	1,642	920	86
2,293	258	0	3,447	3,863	1,449	982	95
1,884	433	0	3,402	3,980	1,560	930	103
1,475	388	0	3,410	4,002	1,661	822	106
1,621	325	0	3,233	3,947	1,524	870	111
1,154	327	0	3,287	3,970	1,638	842	123
574	0	0	3,419	4,050	1,570	839	133
101	0	0	3,446	3,925	1,608	760	158
0	0	0	3,502	3,720	1,756	769	186
0	0	0	3,266	3,766	1,634	717	199
0	0	0	3,284	3,877	1,511	588	216
0	0	0	3,004	3,665	1,656	499	247
0	0	0	3,022	3,690	1,648	498	380
0	0	0	3,040	3,733	1,628	500	473
0	0	0	3,058	3,804	1,583	455	567
0	0	0	3,076	3,831	1,488	411	660
0	0	0	3,094	3,849	1,518	367	753
0	0	0	3,112	3,944	1,560	323	847
0	0	0	3,118	4,015	1,313	279	940
0	0	0	3,124	4,057	1,328	235	1,033
0	0	0	3,130	4,071	1,327	191	1,127
0	0	0	3,136	4,097	1,289	147	1,220
0	0	0	3,143	4,127	1,271	103	1,313

