

МИНИСТЕРСТВО ОБРАЗОВАНИЯ РЕСПУБЛИКИ БЕЛАРУСЬ

БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

ФАКУЛЬТЕТ МЕЖДУНАРОДНЫХ ОТНОШЕНИЙ

Кафедра международных экономических отношений

Специальность 1-25 01 03 – мировая экономика

ПРЕЗЕНТАЦИЯ

по дисциплине: Конъюнктура мировых товарных рынков
на тему: **Анализ конъюнктуры рынка угля.**

Студентка 4 курса,
группа № 8

(подпись, дата)

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МИНСК 2012

Запасы угля на конец 2011 г.

Million tonnes	Anthracite and bituminous	Sub-bituminous and lignite	Total	Share of total	R/P ratio
US	108501	128794	237295	27.6%	239
Canada	3474	3108	6582	0.8%	97
Mexico	860	351	1211	0.1%	77
Total North America	112835	132253	245088	28.5%	228
Brazil	–	4559	4559	0.5%	*
Colombia	6366	380	6746	0.8%	79
Venezuela	479	–	479	0.1%	55
Other S. & Cent. America	45	679	724	0.1%	*
Total S. & Cent. America	6890	5618	12508	1.5%	124
Bulgaria	2	2364	2366	0.3%	64
Czech Republic	192	908	1100	0.1%	19
Germany	99	40600	40699	4.7%	216
Greece	–	3020	3020	0.4%	53
Hungary	13	1647	1660	0.2%	174
Kazakhstan	21500	12100	33600	3.9%	290
Poland	4338	1371	5709	0.7%	41
Romania	10	281	291	*	8
Russian Federation	49088	107922	157010	18.2%	471
Spain	200	330	530	0.1%	81
Turkey	529	1814	2343	0.3%	30
Ukraine	15351	18522	33873	3.9%	390
United Kingdom	228	–	228	*	12
Other Europe & Eurasia	1440	20735	22175	2.6%	238
Total Europe & Eurasia	92990	211614	304604	35.4%	242
South Africa	30156	–	30156	3.5%	118
Zimbabwe	502	–	502	0.1%	202
Other Africa	860	174	1034	0.1%	*
Middle East	1203	–	1203	0.1%	*
Total Middle East & Africa	32721	174	32895	3.8%	126
Australia	37100	39300	76400	8.9%	184
China	62200	52300	114500	13.3%	33
India	56100	4500	60600	7.0%	103
Indonesia	1520	4009	5529	0.6%	17
Japan	340	10	350	*	275
New Zealand	33	538	571	0.1%	115
North Korea	300	300	600	0.1%	19
Pakistan	–	2070	2070	0.2%	*
South Korea	–	126	126	*	60
Thailand	–	1239	1239	0.1%	58
Vietnam	150	–	150	*	3
Other Asia Pacific	1583	2125	3708	0.4%	88
Total Asia Pacific	159326	106517	265843	30.9%	53
Total World	404762	456176	860938	100.0%	112

Мировые запасы угля

- ▣ 1 083 млрд. тонн
- ▣ должно хватить на 210 лет
- ▣ 60% промышленных запасов угля сосредоточено в трех регионах: в США (25%), на территории стран бывшего Советского союза (23%) и в Китае (12%).
- ▣ На Австралию, Индию, Германию и ЮАР, приходится в общей сложности 29% промышленных запасов.

Добыча угля

Million tonnes oil equivalent	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Change 2011 over 2010	2011 share of total
US	590.3	570.1	553.6	572.4	580.2	595.1	587.7	596.7	540.9	551.8	556.8	0.9%	14.1%
Canada	36.6	34.2	31.3	33.5	35.3	34.1	35.7	35.6	32.8	36.0	35.6	-1.2%	0.9%
Mexico	5.3	5.3	4.6	4.7	5.2	5.5	6.0	5.5	5.0	4.8	7.6	55.8%	0.2%
Total North America	632.2	609.5	589.5	610.7	620.7	634.7	629.4	637.8	578.7	592.7	600.0	1.2%	15.2%
Brazil	2.1	1.9	1.8	2.0	2.4	2.2	2.3	2.5	2.2	2.1	2.4	11.3%	0.1%
Colombia	28.5	25.7	32.5	34.9	38.4	42.6	45.4	47.8	47.3	48.3	55.8	15.4%	1.4%
Venezuela	5.6	5.9	5.1	5.9	5.3	5.7	5.6	5.6	6.4	6.4	6.3	-1.3%	0.2%
Other S. & Cent. America	0.5	0.4	0.5	0.2	0.3	0.6	0.3	0.4	0.5	0.3	0.3	-	•
Total S. & Cent. America	36.8	33.9	39.9	43.0	46.3	51.2	53.6	56.3	56.4	57.2	64.8	13.3%	1.6%
Bulgaria	4.4	4.3	4.5	4.4	4.1	4.2	4.7	4.8	4.5	4.9	6.1	26.1%	0.2%
Czech Republic	25.4	24.3	24.2	23.5	23.5	23.8	23.6	22.8	21.0	20.8	21.6	3.7%	0.5%
France	1.5	1.1	1.3	0.4	0.2	0.2	0.2	0.1	+	0.1	0.1	-42.9%	•
Germany	54.1	55.0	54.1	54.7	53.2	50.3	51.5	47.7	44.4	43.7	44.6	2.1%	1.1%
Greece	8.5	9.1	9.0	9.1	9.0	8.3	8.6	8.3	8.4	7.4	7.4	-0.4%	0.2%
Hungary	2.9	2.7	2.8	2.4	2.0	2.1	2.0	1.9	1.9	1.9	2.0	5.3%	•
Kazakhstan	40.7	37.8	43.3	44.4	44.2	49.1	50.0	56.8	51.5	56.2	58.8	4.5%	1.5%
Poland	71.7	71.3	71.4	70.5	68.7	67.0	62.3	60.5	56.4	55.5	56.6	2.0%	1.4%
Romania	7.1	6.6	7.0	6.7	6.6	6.5	6.7	6.7	6.4	5.8	6.7	14.1%	0.2%
Russian Federation	122.6	117.3	127.1	131.7	139.2	145.1	148.0	153.4	142.1	151.1	157.3	4.1%	4.0%
Spain	7.6	7.2	6.8	6.7	6.4	6.1	5.7	4.1	3.8	3.4	2.5	-25.2%	0.1%
Turkey	13.2	11.5	10.4	10.1	12.6	13.7	16.0	16.8	17.1	15.8	16.6	5.1%	0.4%
Ukraine	43.5	42.8	41.6	42.2	41.0	41.7	39.9	41.3	38.4	39.9	45.1	13.0%	1.1%
United Kingdom	19.4	18.2	17.2	15.3	12.5	11.3	10.3	11.0	10.9	11.2	11.2	-0.4%	0.3%
Other Europe & Eurasia	16.9	17.9	19.0	18.5	17.7	18.5	20.1	20.6	20.0	19.5	20.6	5.2%	0.5%
Total Europe & Eurasia	439.6	427.2	439.8	440.6	440.8	448.0	449.8	456.9	426.6	437.3	457.1	4.5%	11.6%
Total Middle East	0.7	0.8	0.7	0.8	0.8	0.9	1.0	1.0	0.7	0.7	0.7	-	•
South Africa	126.1	124.1	134.1	137.2	137.7	138.0	139.6	142.4	141.2	143.3	143.8	0.3%	3.6%
Zimbabwe	2.9	2.5	1.8	2.4	2.2	1.4	1.3	1.0	1.1	1.6	1.6	-	•
Other Africa	1.2	1.3	1.6	1.3	1.2	1.3	1.1	1.2	1.0	1.2	1.2	-	•
Total Africa	130.2	128.0	137.5	140.9	141.1	140.6	142.1	144.5	143.3	146.1	146.6	0.3%	3.7%
Australia	180.2	184.3	189.4	196.8	205.7	210.8	217.1	224.1	232.1	236.0	230.8	-2.2%	5.8%
China	809.5	853.8	1013.4	1174.1	1302.2	1406.4	1501.1	1557.1	1652.1	1797.7	1956.0	8.8%	49.5%
India	133.6	138.5	144.4	155.7	162.1	170.2	181.0	195.6	210.8	217.5	222.4	2.3%	5.6%
Indonesia	56.9	63.5	70.3	81.4	93.9	119.2	133.4	147.8	157.6	169.2	199.8	18.1%	5.1%
Japan	1.8	0.8	0.7	0.7	0.6	0.7	0.8	0.7	0.7	0.5	0.7	38.7%	•
New Zealand	2.5	2.8	3.2	3.3	3.3	3.6	3.0	3.0	2.8	3.3	3.1	-7.7%	0.1%
Pakistan	1.5	1.6	1.5	1.5	1.6	1.7	1.6	1.8	1.6	1.5	1.4	-4.1%	•
South Korea	1.7	1.5	1.5	1.4	1.3	1.3	1.3	1.2	1.1	0.9	0.9	0.1%	•
Thailand	5.6	5.7	5.3	5.6	5.8	5.3	5.1	5.0	5.0	5.1	6.0	16.7%	0.2%
Vietnam	7.5	9.2	10.8	14.7	18.3	21.8	22.4	23.0	25.2	24.6	24.9	1.1%	0.6%
Other Asia Pacific	19.9	19.6	20.3	22.1	24.9	25.3	23.9	25.6	28.5	36.3	40.2	10.8%	1.0%
Total Asia Pacific	1220.7	1281.2	1460.8	1657.3	1819.6	1966.3	2090.7	2184.8	2317.4	2492.7	2686.3	7.8%	67.9%
Total World	2460.2	2480.5	2668.1	2893.2	3069.3	3241.7	3366.5	3481.2	3523.2	3726.7	3955.5	6.1%	100.0%

Лидеры по количеству запасов

угля

	Страна	Доля в %
1	США	27,6
2	Россия	18,2
3	Китай	13,3
4	Австралия	8,9
5	Индия	7

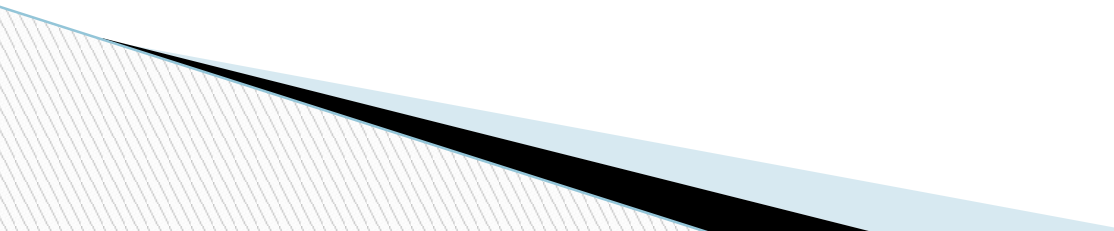
Лидеры по добыче угля

	Страна	Количество в млн тонн	Доля в %
1	Китай	3 520	49,5
2	США	992	14,1
3	Индия	588	5,6
4	Австралия	415	5,8
5	ЕС	576	4,2
6	Россия	333	4,0

Крупнейшие экспортёры

Страна	2003	2004	2005	2006	2007	2008	2009	2010	Доля
Австралия	238.1	247.6	255.0	255.0	268.5	278.0	288.5	328.1	27.1%
Индонезия	107.8	131.4	142.0	192.2	221.9	228.2	261.4	316.2	26.1%
Россия	41.0	55.7	98.6	103.4	112.2	115.4	130.9	122.1	10.1%
США	43.0	48.0	51.7	51.2	60.6	83.5	60.4	83.2	6.9%
ЮАР	78.7	74.9	78.8	75.8	72.6	68.2	73.8	76.7	6.3%
Колумбия	50.4	56.4	59.2	68.3	74.5	74.7	75.7	76.4	6.3%
Канада	27.7	28.8	31.2	31.2	33.4	36.5	31.9	36.9	3.0%
Казахстан	30.3	27.4	28.3	30.5	32.8	47.6	33.0	36.3	3.0%
Вьетнам	6.9	11.7	19.8	23.5	35.1	21.3	28.2	24.7	2.0%
Китай	103.4	95.5	93.1	85.6	75.4	68.8	25.2	22.7	1.9%

Факторы предложения

- ▣ Природный
 - ▣ Уровень развития технологий, применяемых при добыче угля
 - ▣ Наличие квалифицированных рабочих кадров
 - ▣ Нормативно-правовое регулирование угледобывающей отрасли
 - ▣ Логистика
- 

Потребление угля (1)

Million tonnes oil equivalent	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Change 2011 over 2010
US	552.2	552.0	562.5	566.1	574.2	565.7	573.3	564.1	496.2	526.1	501.9	-4.6%
Canada	34.0	31.6	27.0	28.5	33.3	29.1	29.8	29.9	25.2	24.0	21.8	-9.1%
Mexico	6.9	7.8	8.9	7.1	9.3	9.1	9.1	6.8	8.4	9.4	9.9	5.6%
Total North America	593.1	591.3	598.4	601.7	616.8	603.9	612.2	600.8	529.8	559.5	533.7	-4.6%
Argentina	0.6	0.5	0.7	0.8	0.9	0.3	0.4	1.1	1.2	1.0	1.1	10.7%
Brazil	12.2	11.5	11.8	12.8	12.7	12.5	13.4	13.5	11.3	13.9	13.9	-0.5%
Chile	2.3	2.4	2.3	2.6	2.6	3.2	3.8	4.1	3.7	4.2	5.3	25.9%
Colombia	2.7	2.2	2.4	2.0	2.7	2.4	2.4	2.8	3.5	4.0	4.3	7.1%
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Peru	0.4	0.7	0.7	0.7	0.8	0.6	0.8	0.8	0.8	0.8	0.8	6.9%
Trinidad & Tobago	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	†	†	†	-	†	†	†	†	0.1	1.9	2.0	4.2%
Other S. & Cent. America	0.7	1.0	2.1	1.9	1.9	2.0	2.1	2.1	2.6	2.4	2.4	2.1%
Total S. & Cent. America	19.0	18.3	19.9	20.8	21.5	21.1	22.8	24.4	23.1	28.2	29.8	5.7%
Austria	3.1	3.0	3.3	3.3	3.1	3.1	3.0	2.8	2.3	2.6	2.5	-4.0%
Azerbaijan	†	†	†	†	†	†	†	†	†	†	†	-
Belarus	0.1	0.1	0.1	0.1	0.1	0.1	†	†	†	†	†	-
Belgium	6.7	6.0	5.8	5.6	5.0	4.8	4.4	3.9	3.1	3.3	2.1	-37.2%
Bulgaria	7.1	6.5	7.2	7.1	6.8	6.9	7.7	7.5	6.4	6.8	8.4	23.8%
Czech Republic	21.2	20.6	20.8	20.9	20.4	21.1	21.2	19.9	17.4	18.2	19.2	5.6%
Denmark	4.2	4.2	5.7	4.6	3.7	5.6	4.7	4.1	4.0	3.8	3.2	-15.4%
Finland	3.9	4.1	5.5	5.0	2.9	4.7	4.4	3.0	3.3	4.3	3.3	-23.0%
France	12.1	12.4	13.3	12.8	13.3	12.1	12.3	11.9	9.9	10.7	9.0	-15.9%
Germany	85.0	84.6	87.2	85.4	82.1	83.5	85.7	80.1	71.7	76.6	77.6	1.2%
Greece	9.3	9.8	9.4	9.0	8.8	8.1	8.5	8.1	8.1	7.4	7.3	-0.5%
Hungary	3.4	3.1	3.4	3.1	2.7	2.9	2.9	2.8	2.5	2.6	2.7	3.3%
Republic of Ireland	1.9	1.8	1.7	1.8	1.9	1.6	1.6	1.4	1.2	1.2	1.3	1.9%
Italy	13.1	13.3	14.0	16.0	16.0	16.4	16.6	16.4	12.9	14.3	15.4	7.9%
Kazakhstan	22.5	22.8	25.2	26.5	27.2	29.8	31.7	33.4	32.6	31.6	30.2	-4.5%
Lithuania	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	6.4%
Netherlands	8.5	8.9	9.1	9.1	8.7	8.5	9.0	8.5	7.9	7.9	7.8	-1.6%
Norway	0.9	0.8	0.7	0.8	0.7	0.6	0.7	0.7	0.5	0.6	0.6	2.1%
Poland	58.0	56.7	57.7	57.3	55.7	58.0	57.9	56.0	51.9	56.4	59.8	6.0%
Portugal	3.7	4.1	3.8	3.7	3.8	3.8	3.3	2.9	3.3	1.9	2.6	36.9%
Romania	7.2	7.6	7.8	7.4	7.6	8.5	7.4	7.4	6.6	6.1	7.1	16.6%
Russian Federation	102.4	103.0	104.0	99.5	94.2	96.7	93.4	100.4	91.9	90.2	90.9	0.8%
Slovakia	4.1	4.0	4.2	4.1	3.9	3.8	3.8	3.7	3.5	3.4	3.3	-3.2%
Spain	20.1	22.7	21.0	22.0	22.5	19.8	21.9	15.5	11.8	9.8	14.9	52.1%
Sweden	2.0	2.2	2.2	2.3	2.2	2.3	2.2	2.0	1.6	2.1	2.0	-8.0%
Switzerland	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	-2.0%
Turkey	18.4	19.3	20.7	21.8	21.8	25.9	28.9	29.2	30.4	30.9	32.4	5.1%
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	39.7	38.9	40.3	39.1	37.4	39.7	39.7	40.2	35.1	37.9	42.4	11.9%
United Kingdom	38.9	35.7	38.1	36.6	37.4	40.9	38.4	35.6	29.9	31.0	30.8	-0.7%
Uzbekistan	1.1	1.0	0.7	1.2	1.2	1.7	1.4	1.4	1.4	1.3	1.3	-0.1%
Other Europe & Eurasia	19.8	21.9	23.1	23.8	22.1	19.2	20.2	20.6	19.5	20.1	20.8	3.9%
Total Europe & Eurasia	518.5	519.5	536.3	530.3	513.6	530.3	533.2	519.8	471.1	483.3	499.2	3.3%

Потребление угля (2)

Iran	1.1	1.1	1.1	1.0	1.2	1.2	1.3	0.9	1.0	0.8	0.8	-2.4%
Israel	7.2	7.6	7.9	8.0	7.9	7.8	8.0	7.9	7.7	7.7	7.9	2.6%
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-	-	-	-
Total Middle East	8.3	8.7	9.0	9.0	9.1	9.1	9.3	8.8	8.7	8.5	8.7	2.1%
Algeria	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2	-	-	-
Egypt	1.2	1.3	1.4	1.3	1.3	1.2	1.2	1.2	1.2	0.9	0.9	1.8%
South Africa	73.4	75.9	81.4	85.4	82.9	84.0	89.1	95.1	89.9	91.3	92.9	1.7%
Other Africa	7.1	6.9	6.1	6.8	7.0	6.4	5.7	5.9	4.8	5.9	6.0	2.2%
Total Africa	82.2	84.7	89.5	94.1	91.7	92.1	96.5	102.7	96.1	98.1	99.8	1.7%
Australia	48.2	51.1	49.4	50.8	53.5	56.0	54.1	54.6	54.5	43.8	49.8	13.6%
Bangladesh	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.6	0.6	0.9	1.0	6.1%
China	720.8	760.4	900.2	1065.6	1186.2	1317.7	1392.5	1441.1	1579.5	1676.2	1839.4	9.7%
China Hong Kong SAR	4.9	5.4	6.6	6.6	6.7	7.0	7.5	7.0	7.6	6.3	7.7	21.4%
India	145.2	151.8	156.8	172.3	184.4	195.4	210.3	230.4	253.8	270.8	295.6	9.2%
Indonesia	16.8	18.0	24.2	22.2	25.4	30.1	37.8	30.1	34.6	41.2	44.0	6.7%
Japan	103.0	106.6	112.2	120.8	121.3	119.1	125.3	128.7	108.8	123.7	117.7	-4.8%
Malaysia	3.0	3.6	5.3	6.6	6.9	7.3	8.8	9.8	10.6	13.8	15.0	9.2%
New Zealand	1.4	1.4	2.0	2.1	2.3	2.2	1.7	2.1	1.6	1.4	1.4	1.9%
Pakistan	2.1	2.4	2.9	3.8	4.1	4.2	5.1	5.3	4.7	4.5	4.2	-5.9%
Philippines	4.5	4.7	4.7	5.0	5.7	5.5	5.9	7.0	6.7	7.7	8.3	7.0%
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
South Korea	45.7	49.1	51.1	53.1	54.8	54.8	59.7	66.1	68.6	75.9	79.4	4.6%
Taiwan	30.6	32.7	35.1	36.6	38.1	39.6	41.8	40.2	38.7	40.3	41.6	3.4%
Thailand	8.8	9.2	9.4	10.4	11.2	12.4	14.1	15.3	14.5	15.3	13.9	-9.4%
Vietnam	5.0	5.3	5.5	8.2	8.0	9.5	10.1	10.0	14.0	13.9	15.0	8.3%
Other Asia Pacific	19.4	18.5	18.8	19.2	20.5	21.0	17.8	19.5	19.0	18.7	19.1	2.2%
Total Asia Pacific	1160.0	1220.5	1384.6	1583.4	1729.5	1882.5	1993.2	2067.6	2217.8	2354.4	2553.2	8.4%
Total World	2381.1	2443.2	2637.7	2839.3	2982.3	3139.0	3267.3	3324.1	3346.6	3532.0	3724.3	5.4%

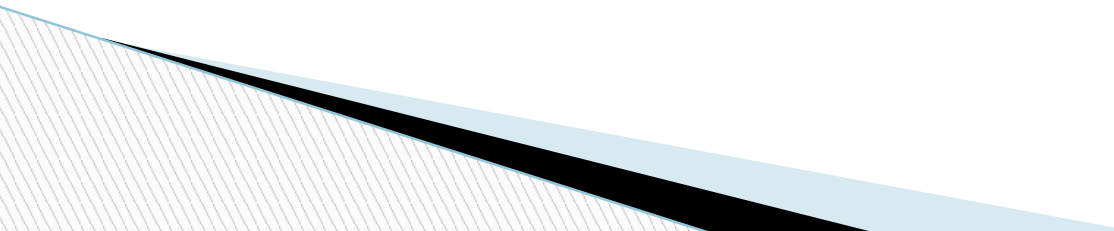
Потребление на душу населения (2011г.)



Крупнейшие импортёры

Страна	2006	2007	2008	2009	2010	Доля
Япония	199.7	209.0	206.0	182.1	206.7	17.5%
Китай	42.0	56.2	44.5	151.9	195.1	16.6%
Южная Корея	84.1	94.1	107.1	109.9	125.8	10.7%
Индия	52.7	29.6	70.9	76.7	101.6	8.6%
Германия	50.6	56.2	55.7	45.9	55.1	4.7%
Турция	22.9	25.8	21.7	22.7	30.0	2.5%
Великобритания	56.8	48.9	49.2	42.2	29.3	2.5%
Италия	27.9	28.0	27.9	20.9	23.7	1.9%
Нидерланды	25.7	29.3	23.5	22.1	22.8	1.9%
Россия	28.8	26.3	34.6	26.8	21.8	1.9%

Факторы спроса

- ▣ Рост численности населения и доходов (растущая потребность в энергоресурсах)
 - ▣ Рост экономик Азиатского региона
 - ▣ Цены на другие виды энергоресурсов
 - ▣ Валютный курс
 - ▣ Экологический фактор
- 

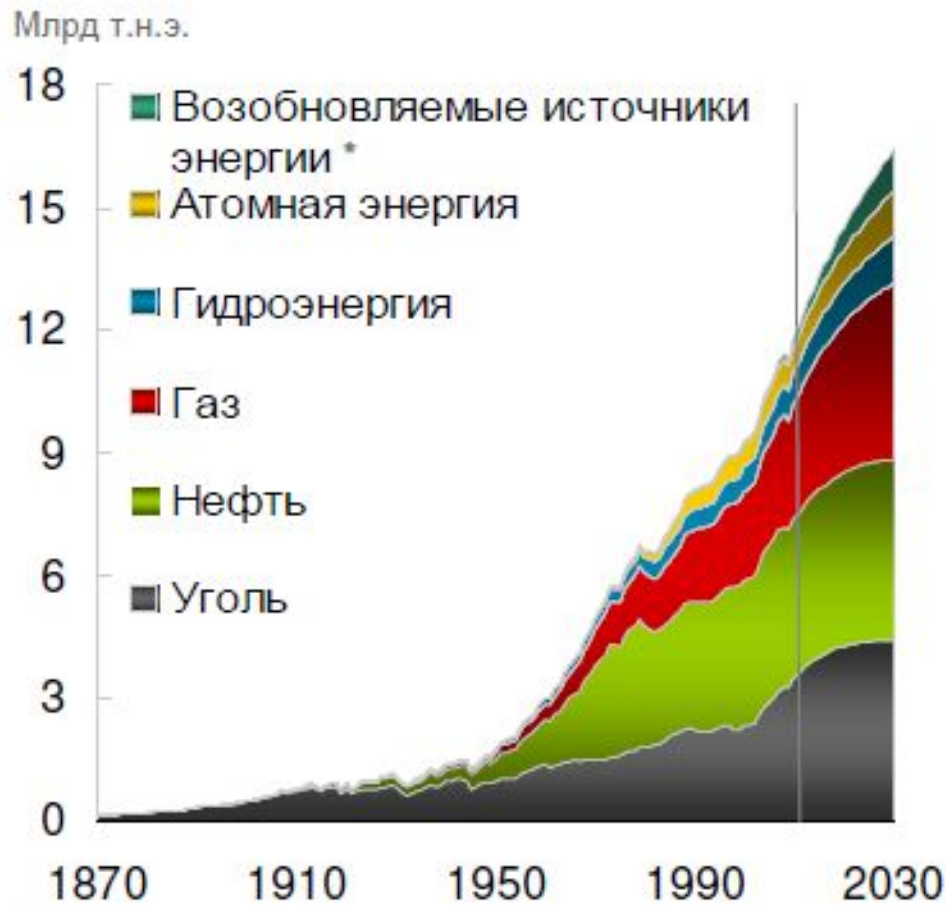
Динамика цен (1991-2011 гг.)

US dollars per tonne	Northwest Europe marker price†	US Central Appalachian coal spot price Index‡	Japan coking coal import cif price	Japan steam coal import cif price
1991	42.80	29.01	60.45	50.30
1992	38.53	28.53	57.82	48.45
1993	33.68	29.85	55.26	45.71
1994	37.18	31.72	51.77	43.66
1995	44.50	27.01	54.47	47.58
1996	41.25	29.86	56.68	49.54
1997	38.92	29.76	55.51	45.53
1998	32.00	31.00	50.76	40.51
1999	28.79	31.29	42.83	35.74
2000	35.99	29.90	39.69	34.58
2001	39.03	50.15	41.33	37.96
2002	31.65	33.20	42.01	36.90
2003	43.60	38.52	41.57	34.74
2004	72.08	64.90	60.96	51.34
2005	60.54	70.12	89.33	62.91
2006	64.11	62.96	93.46	63.04
2007	88.79	51.16	88.24	69.86
2008	147.67	118.79	179.03	122.81
2009	70.66	68.08	167.82	110.11
2010	92.50	71.63	158.95	105.19
2011	121.54	87.38	229.12	136.21

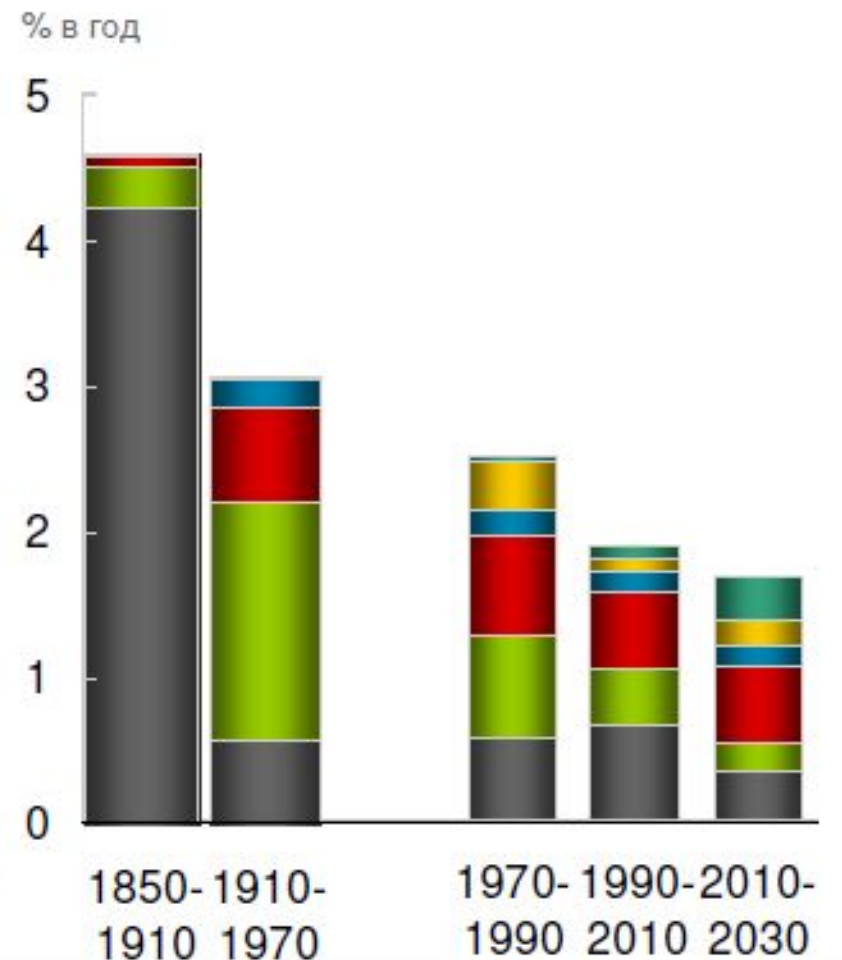
На Лондонской электронной товарной бирже InterContinental Exchange Futures Europe (ICE Futures Europe) официальная цена (settlement) ближайших по времени исполнения фьючерсных угольных контрактов ICE Rotterdam Coal Futures за последний торговый день - \$89,50 за тонну.

Прогноз развития мировой энергетики до 2030г.

Мировое потребление энергии в коммерческих целях



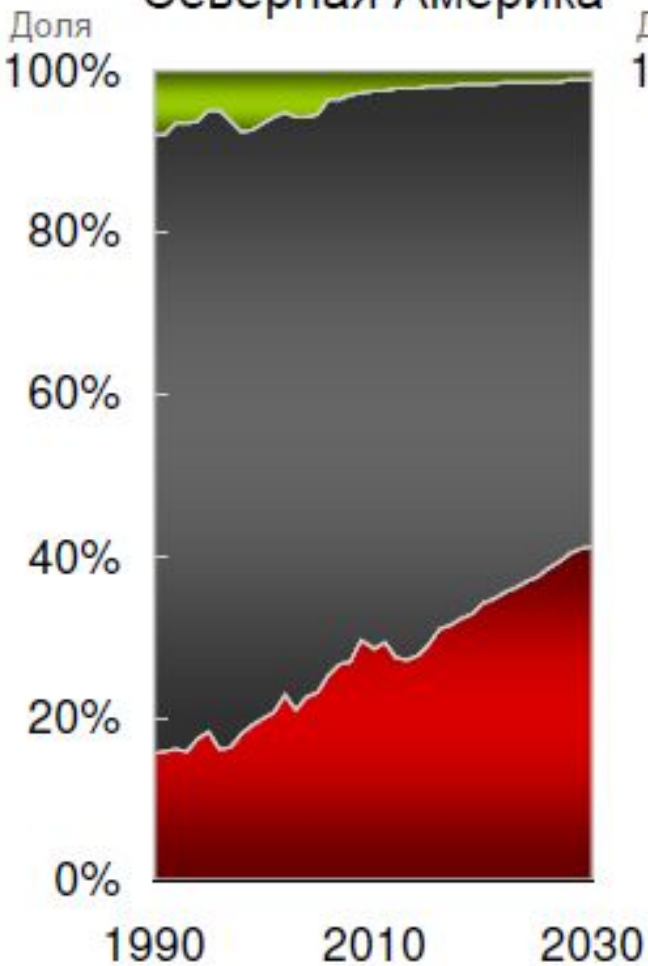
Доля в общем росте потребления энергии



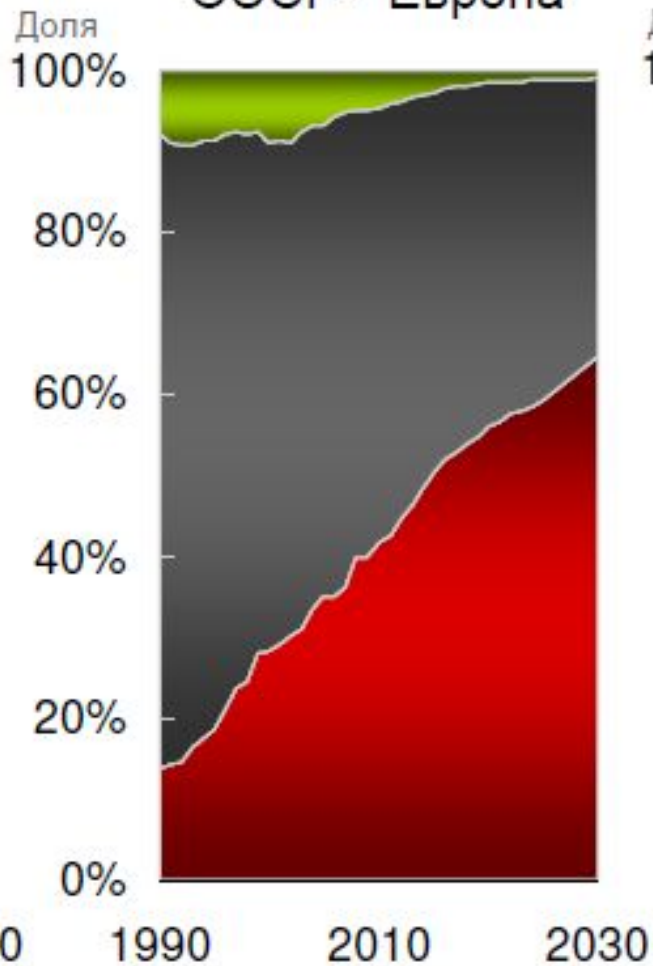
* Включают биотопливо

Доля энергии, производимой на основе ископаемых видов топлива

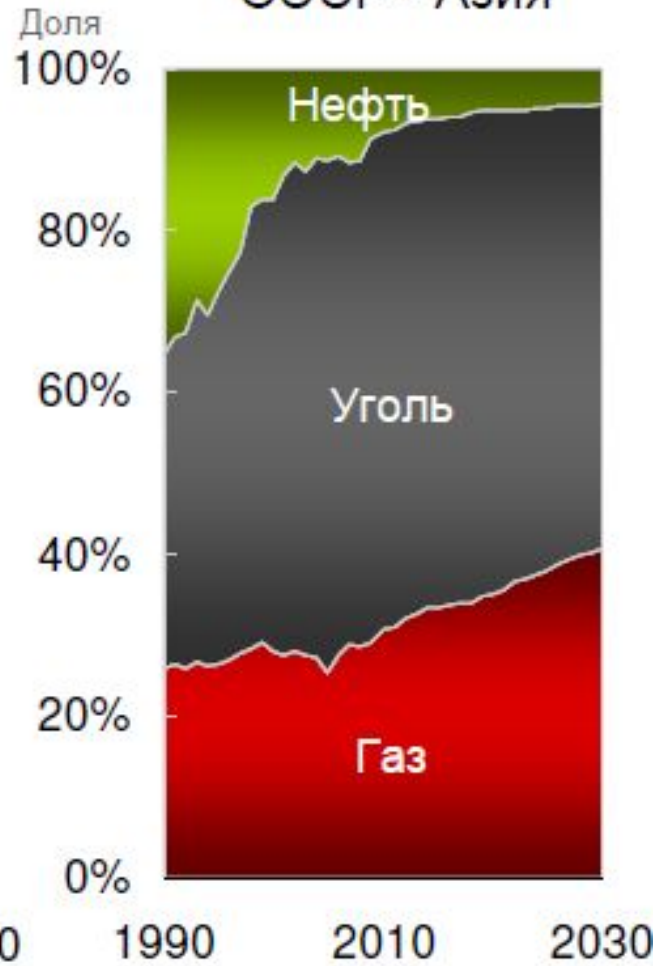
Северная Америка



ОЭСР - Европа

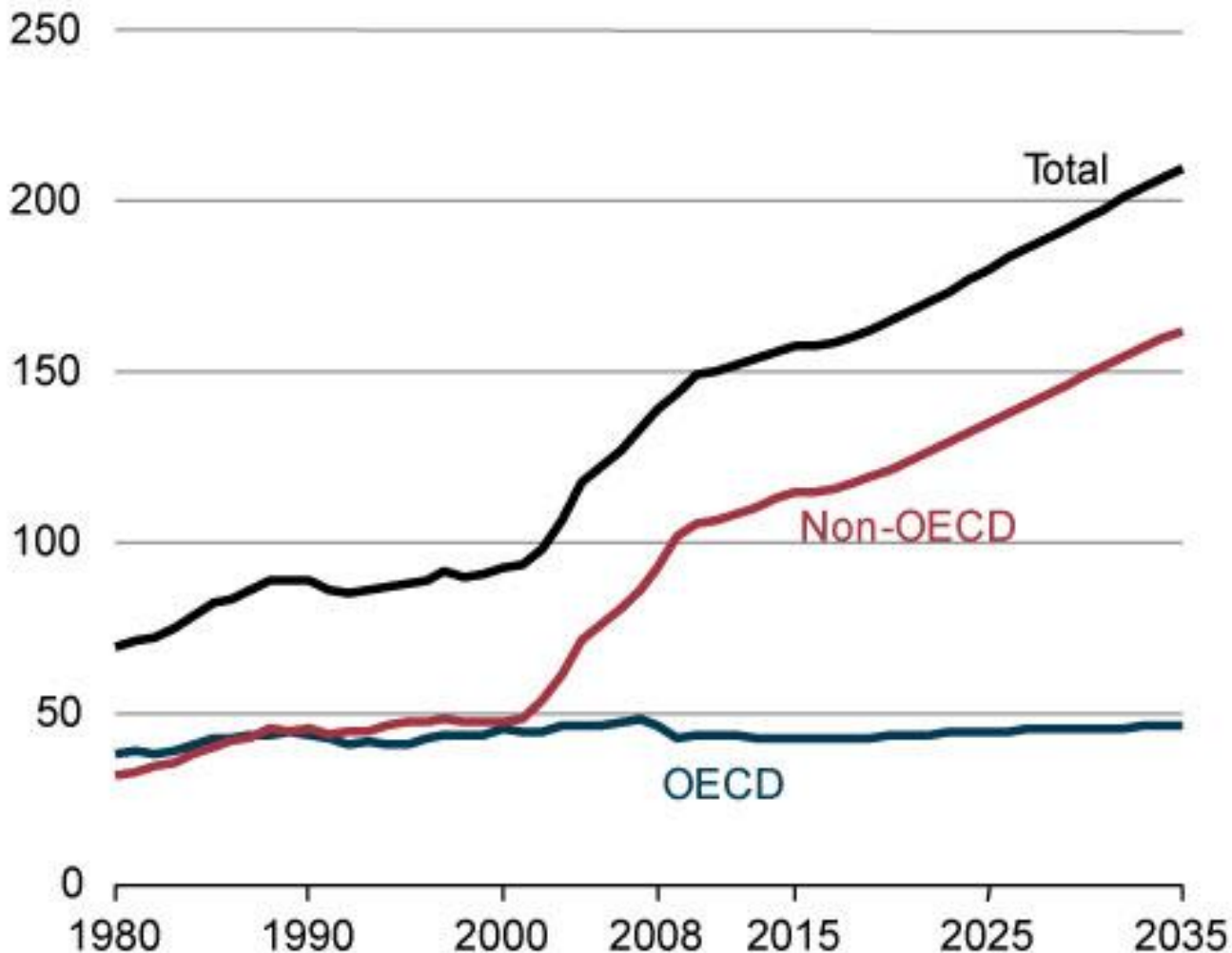


ОЭСР - Азия



Мировое потребление угля

Figure 65. World coal consumption by region, 1980-2035
(quadrillion Btu)



Динамика потребления угля по регионам

Figure 67. OECD coal consumption by region, 1980, 2008, 2020 and 2035 (quadrillion Btu)

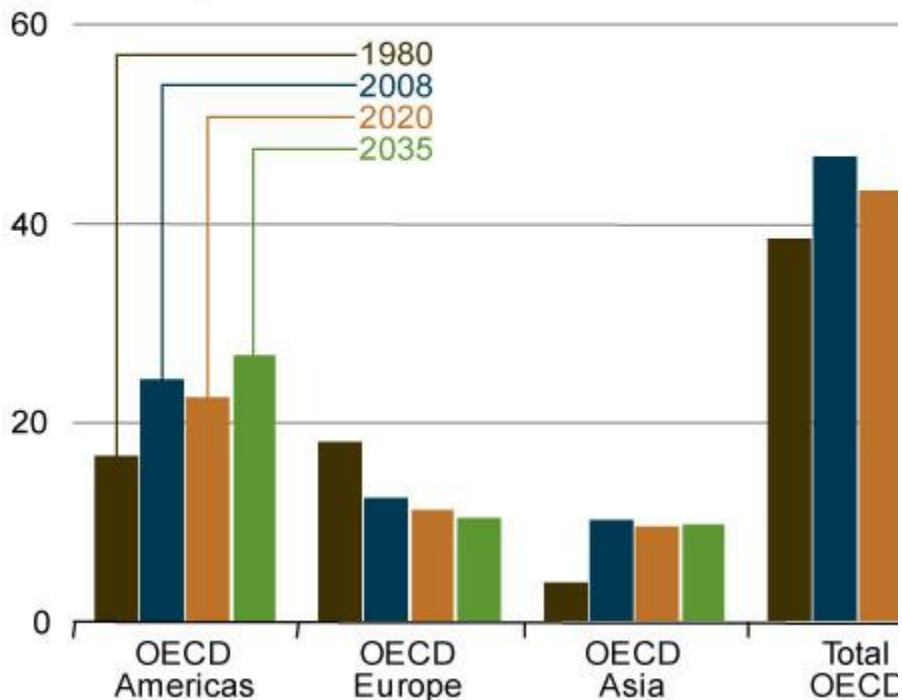
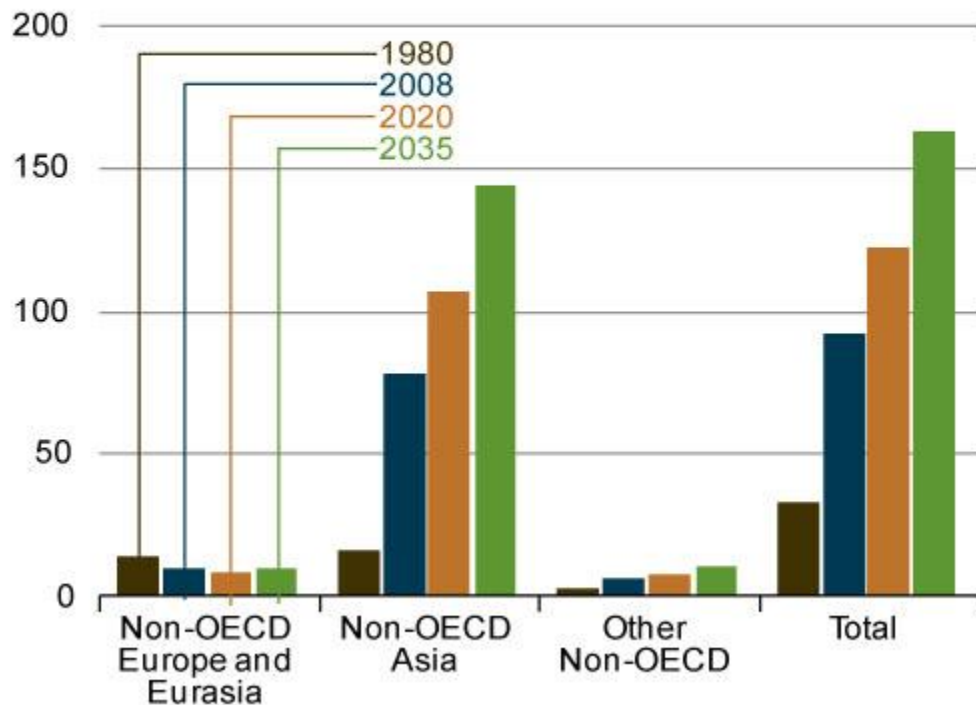


Figure 68. Non-OECD coal consumption by region, 1980, 2008, 2020 and 2035 (quadrillion Btu)



Список использованных источников

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