

Energy policy of Russia in long term prospect (2008-2030)

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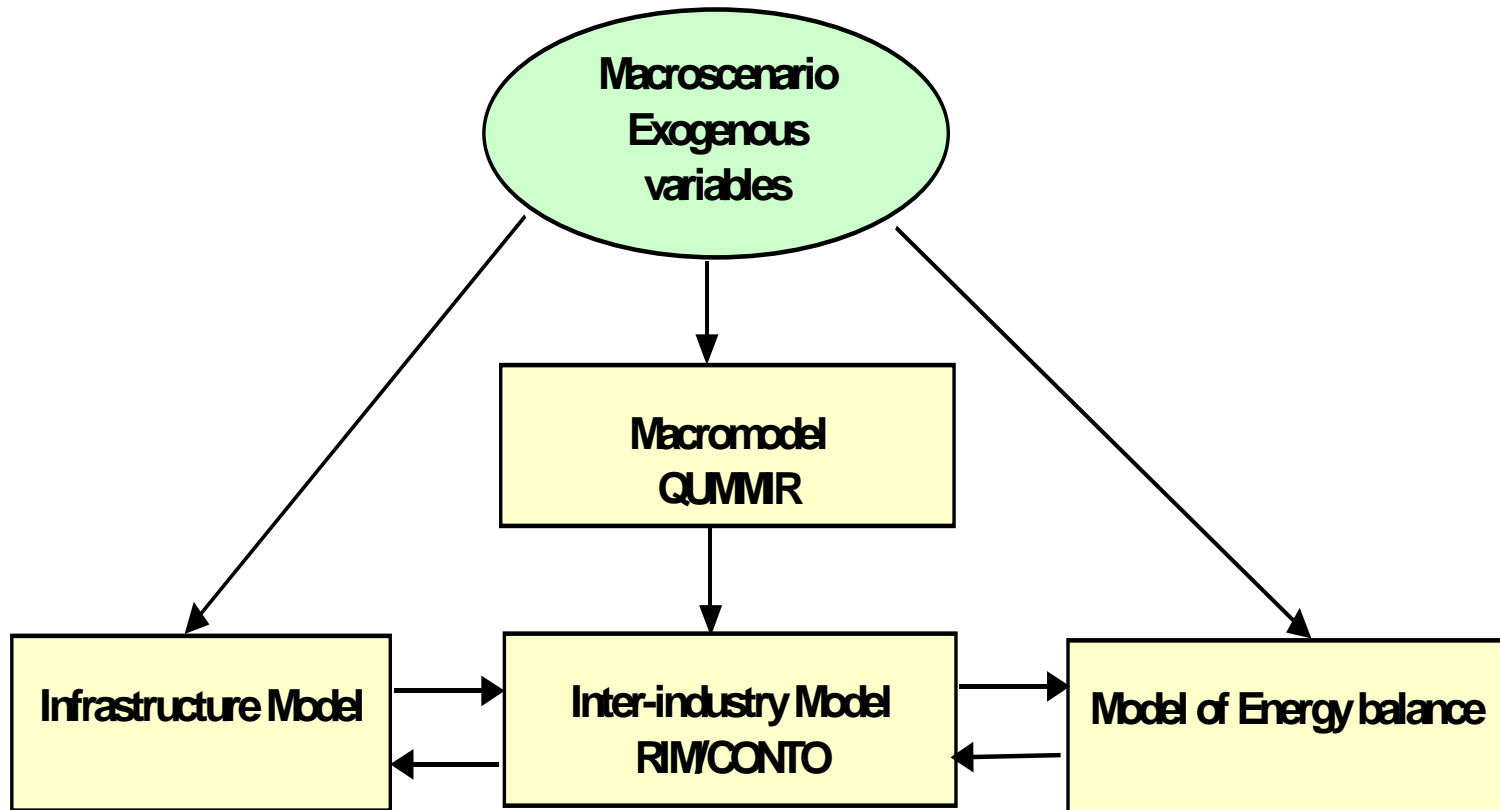


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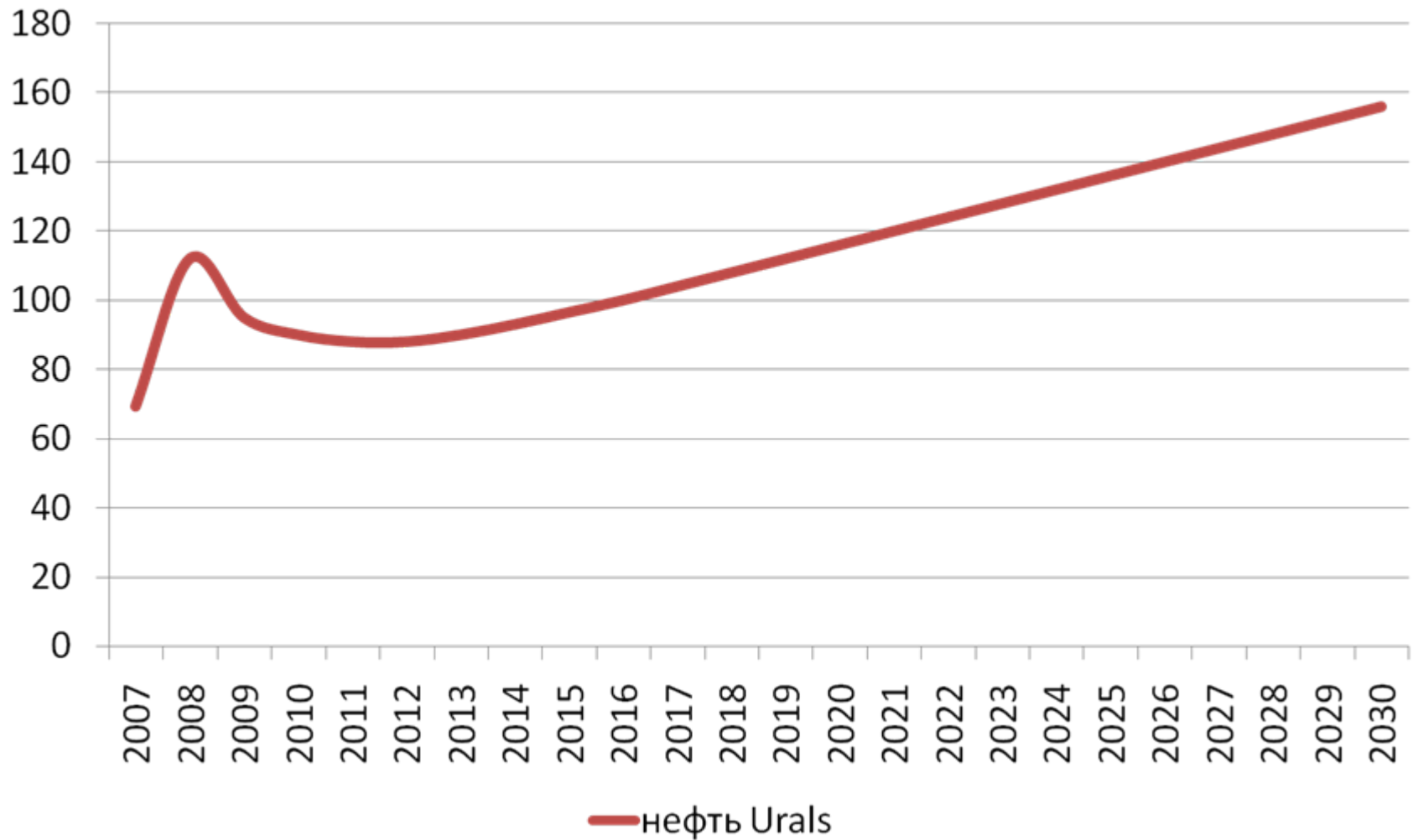
domestic and export price relations



The basic scheme of calculations



Oil (Urals) price scenario



Base parameters of energy sector scenario

Structure of electric power production, %

	2006	2010	2015	2020	2025	2030
Nuclear energy	16.2	18.4	21.4	24.3	27.1	30.0
Hydro energy	18.6	18.8	19.0	19.3	19.5	20.0
Solar energy	0.1	0.2	0.4	0.5	0.7	1.0
Renewable energy	0.3	0.6	0.9	1.2	1.5	2.0
Organic fuel	64.9	47.0	58.3	54.7	51.1	47.0

Structure of electric power production on base

	2006	2010	2015	2020	2025	2030
Oil products	4.3	4.1	3.8	3.6	3.3	3.0
Gas	67.8	64.3	60.0	55.7	51.3	47.0
Coal	27.9	31.5	36.2	40.8	45.4	50.0

Average annual rate of growth of GDP and of basic elements of final demand, %

	2006-2010	2011-2015	2016-2020	2021-2025	2026-2030
Household consumption	12.5	11.2	9.6	7.7	5.7
Government consumption	5.0	4.7	4.4	4.0	3.6
Fixed capital investment	16.0	13.6	11.3	7.8	4.3
Export	6.1	5.8	5.7	6.3	10.1
Import	20.2	16.0	12.1	8.3	5.4
GDP	7.0	6.4	6.2	6.1	6.7

Production and export of energy resources

	2005	2010	2015	2020	2025	2030
Oil, mln.t.						
Extraction	470	509	529	530	513	479
Export	262	281	286	275	250	211
<i>Share of export</i>	55.7%	55.2%	54.1%	51.9%	48.7%	44.1%
Gas, bln. m.cub.						
Extraction	638	725	820	904	972	1019
Export	207	272	367	447	515	578
<i>Share of export</i>	32.4%	37.5%	44.8%	49.4%	53.0%	56.7%
Coal, mln.t.						
Extraction	298	345	400	453	487	471
Export	80	87	89	86	80	70
<i>Share of export</i>	27.0%	25.1%	22.1%	19.0%	16.4%	14.9%
Electricity bln. kW-h						
Production	952	1147	1384	1683	2035	2454
Export	18	27	29	35	46	74
<i>Share of export</i>	1.9%	2.4%	2.1%	2.1%	2.3%	3.0%

Electricity balance of Russia

Electric power –GWh-h	2002	2005	2010	2015	2020	2025	2030
Production	889312.0	953467.7	1167730.7	1411901.7	1719175.9	2083549.9	2518698.9
Import	5151.2	6364.7	3382.7	1694.4	929.1	557.0	365.4
Export	18093.0	11626.2	29418.8	43830.8	69128.0	103974.6	152926.7
Initial supply	876370.2	948206.2	1141694.6	1369765.4	1650977.0	1980132.4	2366137.7
Electricity plants	307731.9	346946.7	459537.4	597574.4	778788.2	1005944.0	1291186.6
Heat Plants	581580.1	606521.0	708193.3	814327.4	940387.7	1077605.9	1227512.3
Use in energy sector	150557.8	161419.2	210036.9	267267.0	333259.3	406477.6	483558.1
Losses	107581.2	105027.2	107574.1	104610.4	96379.2	79238.8	50374.2
Final demand	618219.6	681759.7	824083.5	997887.9	1221338.5	1494415.9	1832205.5
<u>Industry</u>	319627.2	359611.2	429631.9	507960.6	602123.2	706087.5	821463.2
Ferrous metal s	64476.6	70701.2	79936.2	89902.3	100355.3	111186.5	122266.2
Chemistry	41953.4	39183.2	51333.5	66789.6	86090.6	108130.2	133550.5
Non ferrous metals	104383.5	113829.3	117874.6	121660.7	124630.0	126717.8	127877.7
Ores and mineral products	12465.1	15354.7	20987.3	26415.9	32561.1	37531.6	40680.4
Machinery	43558.0	57928.8	77244.4	98865.6	127219.4	161144.6	199978.7
Food products	13093.0	13270.9	15673.9	19340.3	23240.4	26796.4	29948.1
Wood and paper	21104.6	22814.1	30218.4	39939.9	53183.0	70926.3	96426.3
Construction	9395.3	12455.2	18003.6	23207.4	28639.3	31902.7	31723.3
Textile	4697.7	9075.5	12276.3	14848.6	17945.5	21800.6	26776.2
Other industries	4500.0	4998.3	6083.7	6990.4	8258.5	9950.8	12235.9
<u>Transportation</u>	67825.4	73571.6	84099.7	97644.2	113892.8	131660.1	151084.2
Railways	36162.7	45137.7	51270.5	58891.2	67532.4	76236.7	84806.2
Pipelines	20523.2	18430.4	21279.3	25119.0	30049.9	35924.5	42960.2
Other transport	11139.5	10003.6	11549.9	13634.0	16310.4	19499.0	23317.8
<u>Other sectors</u>	230766.9	248576.8	310352.0	392283.2	505322.6	656668.3	859658.1
Agriculture	22697.6	22641.1	25535.6	29591.5	34248.8	39589.5	45706.0
Trade and services	65371.9	88766.1	117459.8	153663.7	201232.7	261091.7	335131.9
Households	142697.4	137169.7	167356.6	209028.1	269841.1	355987.1	478820.2

Greenhouse gases emission - mln.t. CO2 equi.

