Energy Trade Problems Analysis of the European Union-Russia

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Abstract
Purpose is to analyze energy trade between European Union (EU) countries and Russia with emphasis on the EU energy security and the effects of sanctions on Russian economy. The international sanctions are imposed against Russia following Russia's annexation of Crimea and the Russian military intervention in Ukraine. The focus is energy trade between the EU and Russia. Energy security is always one of the most important problems for the EU. With regard to acute political and economic situation in Eastern Europe, with the EU and Russia on mutual economic partial blockade, has become very topical, what is the position of energy in the European countries.

What are the prospects for a partial boycott of resources? What can you expect from Russia? What are you doing Russian foreign trade and business? Have it has affected the sanctions or boycott? That's what we look at on the basis of the EU and Russia to August 2015. That's why we look at the beginning of the whole economy, and then external trade. We analyze Russia, which has the EU largest energy suppliers. What are the prospects for a partial boycott of resources?

Keywords: Energy, Foreign Trade, European Union, Russia, Sanctions.

1. Introduction
The sanctions are imposed against Russia following Russian military intervention in Ukraine. Starting with the 2014 Crimean crisis, soldiers of ambiguous affiliation began to take control of strategic positions and infrastructure within the Ukrainian territory of Crimea, which Russia then annexed [1-2]. After the annexation of Crimea, demonstrations by pro-Russian groups in the Donbas of Ukraine escalated into an armed conflict between the separatist forces and the Ukrainian government. Russia supports separatists of personnel and battle technique. Russian president Putin denies this [3]. Ukrainian crisis has made several governments to apply sanctions against individuals and businesses from Russia and Ukraine from March 2014. Sanctions were approved by the United States, the EU and other countries and international organisations. Sanctions against Russia are multi-round. Russia has responded with sanctions against a number of countries, including a total ban on food imports from the EU, United States and in other countries. Both these sanctions applied to Russia and Russian import bans in response have contributed to the collapse of the rouble and caused in 2014–15 Russian financial crisis [4-12]. The continuing financial Russian crisis and the associated shrinking of the Russian economy is the result of the collapse of the Russian rouble beginning in the second half of 2014. The crisis has affected the Russian economy, both consumers and companies, and regional financial markets, as well as Putin's ambitions regarding the Eurasian Economic Union. These sanctions applied to Russia and Russian import bans in response have contributed to the collapse of the rouble and the 2014 - 2015 Russian financial crisis.

2. Methodology and theoretical base
The techniques definitions used by the authors have been specified in OECD [13] and Eurostat [14]. Definitions are presented by tables and figures. All figures are the authors' illustration. Theoretical base are given in earlier publications of the authors [15-38] and in other authors' works [39-47].

3. Global economic development analyses
As follows we look at the world and EU economic power. The growth of the whole economy is measured by gross domestic product (GDP), it will be seen as a background. In background reviewed to the global economic power situation, the EU, United States, China and Russia economic development. The focus of Western civilization is in the competition in Asia, especially China, India and other emerging economies of developing countries, so that today's
developed countries of Western civilization are not left in the future subordinate, economically, and politically, is highly dependent on China, India and other developing countries of today. It is also important economic competition of the United States and the European Union.

When in 2013 was leader United States with 16 720, second EU 15 850 and then China 13 390 billion USD, then in 2014 there has been principle change - the world's economic (GDP by PPP) leader has increased China. The basis of GDP by official exchange rate was in 2014: EU 17.42, United States 17.42 and China 10.36 trillion USD.

In 2013 was GDP real growth rate of United States 1.6%, of EU 0.1% and of China 7.7%. In 2014 was GDP real growth rate of United States 2.4%, of EU 1.4% and of China 7.4% [48, 49].

Based on current prices and exchange rates of the euro, the EU is still low superiority in front the United States.

The one hand, it is natural that the economic downturn is also required fewer imports of goods. Also, the crisis will force companies to greater savings. So in 2009 declined of raw materials extra-import 37%.

Table 1: Extra-EU27 imports trade, by product group. Million EUR

<table>
<thead>
<tr>
<th></th>
<th>2002</th>
<th>2008</th>
<th>2009</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food, drinks</td>
<td>58,124</td>
<td>80,820</td>
<td>73,755</td>
<td>98,498</td>
</tr>
<tr>
<td>Raw materials</td>
<td>44,543</td>
<td>75,542</td>
<td>47,534</td>
<td>73,279</td>
</tr>
<tr>
<td>Mineral fuels</td>
<td>149,112</td>
<td>458,038</td>
<td>298,445</td>
<td>441,360</td>
</tr>
<tr>
<td>Chemicals</td>
<td>80,757</td>
<td>124,299</td>
<td>112,523</td>
<td>164,853</td>
</tr>
<tr>
<td>Machinery</td>
<td>329,057</td>
<td>425,435</td>
<td>352,810</td>
<td>451,238</td>
</tr>
<tr>
<td>Other goods</td>
<td>244,268</td>
<td>375,019</td>
<td>296,500</td>
<td>408,554</td>
</tr>
</tbody>
</table>

The table shows the share of extra-EU27 trade by product group (SITC1), expressed in value terms and in % of the total flow [52]. In 2009 increased share of imports by product (%) almost all product group, except raw materials and mineral fuels.

Since Russia ban imposed an EU exports of food products, then will be its impact in recent months. Total extra-EU28 exports in Jan-May 2015 728.5 billion EUR, but in Jan-May 2014 687.6 billion EUR. It growth was 6%. Extra-EU28 exports food & drink goods were in Jan-May 2015 45.8 billion EUR (+6%) [53].

In 2013 was trade exports to United States 288,239 million, to Switzerland 169,591 million, to China (except Hong Kong) 148,269 million, and to Russia 119,775 million EUR. From 2002 to 2013 share of exports of USA declined from 28% to 16.6%, then China share increased from 4% to 8.5%, and Russia share from 3.9% to 6.9%. Share of extra-EU28 exports to USA in 2013 was 16.6% [52].

In 2013 was trade balance with United States 92,250 million, with China (except Hong Kong) -131,786 million, with Russia -86,702 million and with Switzerland 75,325 million EUR [52]. The crisis year 2009 decreased trade of mineral fuels, but in next year was although the growth, but the pre-crisis level was exceeded only in the 2010th. Is fuel consumption growth good or bad?

In 2013 was trade imports from China (except Hong Kong) 280,055 million, from United States 195,989 million, and from Russia 206,478 million EUR. From 2002 to 2013 share of extra-EU28 imports of USA declined from 19.5% to 11.6% and of Japan from 7.9% to 3.4%, then China share increased from 9.6% to 16.6%, and Russia share from 7% to 12.3% [52].

In Jan-May 2015 was total extra-EU28 exports 728.5 billion EUR (5%) and extra-EU28 imports 708.4 billion EUR (2%). Energy goods were accordingly 36.0 billion EUR (-23%) and 141.5 billion EUR (-26%). At the same period was EU28 exports to Russia 28.9 billion EUR (-34%) and EU28 imports from Russia 58.5 billion EUR (-29%) [53].

The EU has five points in its energy policy: increase competition in the internal market, encourage investment and boost interconnections between electricity grids; diversify energy resources with better systems to respond to a crisis; establish a new treaty framework for energy cooperation with Russia while improving relations with energy-rich countries; use existing energy supplies more efficiently while increasing renewable energy commercialisation; and finally increase funding for new energy technologies [15-21].
Imports are expressed in value terms and measured *cif* (cost, insurance, freight). Exports are expressed in value terms and measured *fob* (free on board). Balance = export – import [13, 14].

The biggest fall of EU-28 imports of mineral fuels was in 2009 year – 160,286 million EUR or 34.8%. But in 2013 decline was EUR 49,820 million or 9.1% compared to the previous year.

In 2014 were international imports of mineral fuels of EU-28 443,524 million EUR.

Both trend lines run almost parallel. Of euro area not subject the superpower the UK buys a little, since it himself can be from the North Sea oil and gas.

Extra-EU28 trade balance of mineral fuels (SITC 3) shows, that the money outflow from the EU is high, particularly in Russia (2013 = 159,483 million EUR) and Norway (2013 = 46,636 million EUR). In 2002 - 2013 it has risen four times in Russia and in Norway two times.

The biggest extra-EU28 exporter of mineral fuels was the United States, in 2013 was 17,331 million EUR and share 14.3% [55].

In 2013 was share of mineral fuels imports of Russia 32.2%, of Norway 9.9%, of Algeria 6.3%, of Nigeria 5.5%, of Saudi Arabia 5%, of Libya 4.6%, and of Kazakhstan 4.4% [55].

In 2014 was share of mineral fuels imports of Russia 30.7%, of Norway 10.6%, of Algeria 6.4%, of Nigeria 6.1%, of Saudi Arabia 5.5%, of Libya 2.8%, and of Kazakhstan 5.0% [55].

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In 2013 of export of Russia was 86.0% to other countries and only 14.0% to CIS countries. 

External trade of the Russia with other countries, in 2013 (million USD) [59]

**Exports:** including by EU countries: Germany 37028, Italy 39315, Netherlands 70126, United Kingdom 16449, France 9203, Belgium 7727, Denmark 1480, Sweden 4476 and other countries: China 35631, Switzerland 8878, Republic of Korea 14868, India 6886, USA 11196, Turkey 25500, Japan 19649 million USD.

**Imports:** Germany 37916, Italy 14554, France 13012, Poland 8334, United Kingdom 8106, Denmark 2177, Finland 5409, Sweden 3917, Norway 1754; China 53212, USA 16537, Japan 13563, Republic of Korea 10315 million USD.

In total volume of exports of Russia the largest share accounted for the other countries: the Netherlands - 13.3%, Italy - 7.5%, Germany - 7.0%, China - 6.8%, Turkey - 4.8%, Japan - 3.7%, Poland - 3.7%, United Kingdom - 3.1%, Republic of Korea - 2.8%, Finland - 2.5%, USA - 2.1%, France - 1.7% and Switzerland - 1.7%.

Shipments from the following countries predominated in imports: from China - 16.7%, Germany - 11.9%, USA - 5.2%, Italy - 4.6%, Japan - 4.3%, France - 4.1%, Republic of Korea - 3.2%, Poland - 2.6%, United Kingdom - 2.6%, Turkey - 2.3%, the Netherlands - 1.8% and Finland - 1.7%.

Share of turnover of Russia stayed in Jan - Feb 2015 compared to Jan - Feb 2014 in %: total 71.3; other countries 72.7 (share of total turnover 88.4%); EU 65.7 (share 45.9%); Italy 79.0 (7.0%); Germany 64.7 (7.9%); Netherlands 69.3 (8.6%); France 57.4 (2.0%); Finland 70.4 (2.1%); China 71.2 (11.8%); South Korea 67.8 (3.3%); United States 93.6 (3.8%) and Turkey 91.2 (5.5%). Only rose to the level in Japan to 116.7% (4.8% share). CIS countries was total only 62.3% (share 11.6%); Belarus 58.8 (4.0%); Kazakhstan 78.1 (2.9%) and Ukraine 45.0 (2.9%). CIS countries decline was larger than the EU countries: 62.3 < 65.7 (!). Also Belarusian decline was greater than in most EU countries [60].

Chare (% of total) in 2013 of Russian exports of mineral products was 71.6% or 377 billion USD or 154 billion USD from total imports 318 billion USD [61].

In 2013 export by commodity structure of the Russia to other countries: coal 128 million ton, crude oil 208 million ton; petroleum products 141 million ton; natural gas 138 billion m³; electric power 12890 million kWh; wood in the rough 18.5 million m³; iron ore and concentrates 21.9 million ton; pig iron 16078 million USD; steel-making iron 3930 thousand ton; copper 212 thousand ton, crude nickel 238 thousand ton and crude aluminium 3259 thousand ton.

Structure of exports of the Russia to other countries chare (%) in 2013 of Russian exports were mineral products 73.3% or 341 billion USD from total exports and of imports were machinery, equipment and transport means 50.8% or 140 billion USD [62].

### 5. 2. External trade in 2015

**Table 4:** Exports of the Russia. Billion USD [58]

<table>
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</tr>
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<tbody>
<tr>
<td>Total</td>
<td>103.1</td>
<td>467.6</td>
<td>301.7</td>
<td>397.1</td>
<td>516.7</td>
<td>524.7</td>
<td>526.4</td>
<td>496.7</td>
</tr>
<tr>
<td>other countries</td>
<td>89.3</td>
<td>397.9</td>
<td>254.9</td>
<td>337.5</td>
<td>437.3</td>
<td>445.5</td>
<td>452.9</td>
<td>428.6</td>
</tr>
<tr>
<td>CIS countries</td>
<td>13.8</td>
<td>69.7</td>
<td>46.8</td>
<td>59.6</td>
<td>79.4</td>
<td>79.2</td>
<td>73.5</td>
<td>68.1</td>
</tr>
</tbody>
</table>

The figure shows that the trade balance (export - import), despite the large decline export, remains relatively stable, circa 15 billion USD per month. Foreign trade turnover (export and import) of CIS lands is very small compared to far abroad countries. The trend of Russian foreign trade is - so going to trade with far abroad countries, so it is total trade.

**Table 5.** External trade of the Russia, billion USD [59]

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Turnover</td>
<td>68.4</td>
<td>59.8</td>
<td>62.9</td>
<td>40.3</td>
<td>44.7</td>
<td>49.8</td>
<td>47.9</td>
</tr>
<tr>
<td>Export</td>
<td>41.5</td>
<td>36.8</td>
<td>38.4</td>
<td>27.5</td>
<td>29.2</td>
<td>32.4</td>
<td>31.5</td>
</tr>
<tr>
<td>Import</td>
<td>26.8</td>
<td>23.1</td>
<td>24.5</td>
<td>12.5</td>
<td>15.6</td>
<td>17.4</td>
<td>16.4</td>
</tr>
</tbody>
</table>
The sharp decline in food imports is caused Russian boycotts of Western goods, which especially painfully affected EU countries. So stayed in Jan - Feb 2015 share of imports compared to Jan - Feb 2014: fresh and frozen meat 44.4%; fresh and frozen poultry meat 55.5%; frozen and fresh fish; cheese and curd 39.4%; butter 31.0% and so forth. In March 2015 share of imports compared to March 2014: meat and meat products 53.0%, including beef 54.6%, pig 43.2%, poultry 37.4%, fish 44.7%, dairy produce 19.7%, alcoholic and non-alcoholic beverages 45.5% and so forth [60]. In 2013 the major part of Russian exports account for fuels (75.3%) and other raw materials. Share of machinery, equipment and transport means is very small (3.6%) and it is twice the period under review decreased. Consequently, it is vital for Russia fuel and other raw materials exports.

For oil and gas production requires knowledge of other, and in particular the equipment. Ranking place of Russia in 2012 in the world by crude oil (including gas condensate), natural and associated gas was two [63]. Consequently, it is essential to other countries. Dynamics of Russian foreign trade in recent months: (Nov 2014 - Jan 2015) [64]

Exports to the corresponding period of the previous year: Nov 2014 = 78.3; Dec 2014 = 75.9; Jan 2015 = 69.5 million USD. Foreign trade turnover to the corresponding period of the previous year: Nov 2014 = 78.3; Dec 2014 = 75.9; Jan 2015 = 66.0.

When January 2014 was foreign trade turnover 60 522 million and exports 39 600 million USD, but in January 2015 was according to 39 973 million (66.0%) and 27 510 million USD (69.5%).

Table 7. Dynamics of exports and imports to the corresponding period of the previous year [64]

<table>
<thead>
<tr>
<th></th>
<th>Non-CIS (other countries)</th>
<th>CIS member states</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Exports</td>
<td>Imports</td>
</tr>
<tr>
<td></td>
<td>million USD</td>
<td>growth %</td>
</tr>
<tr>
<td>Jan 2014</td>
<td>34162</td>
<td>104,1</td>
</tr>
<tr>
<td>Jan 2015</td>
<td>24136</td>
<td>70,7</td>
</tr>
<tr>
<td>Jan-May 2014</td>
<td>184742</td>
<td>100,5</td>
</tr>
<tr>
<td>Jan-May 2015</td>
<td>133271</td>
<td>72,1</td>
</tr>
</tbody>
</table>

Foreign trade turnover in January 2015 amounted to 39.0 billion USD. Exports amounted to 27.6 billion, including the non-CIS countries - 24.5 billion and in the CIS member states - 3.2 billion USD. Imports amounted to 11.4 billion, including from foreign countries - 9.9 billion, of the CIS member states - 1.5 billion USD.

External trade of Russia in the first quarter 2015 were with other (non-CIS) countries only 71.0%, with EU 63.4% and with CIS 60.6% (!) to the corresponding period of the previous year.
5.3. External trade to 2014

In 2000 was Russian average export prices of crude oil 175 USD per ton, in 2012 754 USD per ton and in 2014 493 USD per ton. Russian average export prices of natural gas was in 2000 85.9 per 1000 m³, but in 2013 already 342 per 1000 m³. From 2000 to 2013 increased price of coal 3.2 times and of petroleum products 4.1 times [65].

When January 2014 was average export price of the Russian oil 743.9 USD / ton, but in January 2015 was 399.9 USD / ton [66].

Very high price increase of raw material, particular crude oil price rise is strongly increased volumes of Russian export financing. Thus, the cash flow the country and its economic rise.

![Fig 8: Monthly Basket oil price of OPEC](image)

Basket oil price of OPEC were in Jun-14 (max) 107.89, in Jan-15 (min) 44.38, in 14 Apr 2015 55.91, in 15 June 60.17 and in 29 July 50.82 USD/barrel.

Yearly Basket oil price: 2003=28.10; 2012=109.45; 2013=105.87; 2014=96.29; 2015=50.27 USD/barrel [67]

More than twice the decrease in oil prices in the world market highly effective for the Russian economy.

5.4. Currency exchange rates

Currency exchange rates EUR / RUB were in 01 Jan 2013 40.24, in 01 Sep 2014 48.98, in 16 Dec 2014 (max) 91.52 and in 30 May 2015 66.00; USD / RUB was in 30 May 2015 52.97.

Exchange rate in 01 Aug 2015 was EUR / RUB 66.000 and USD / RUB 60.346 [68, 69].

![Fig 9: Currency exchange rates USD / RUB](image)

More than twice the decline in the exchange rate of the rouble against the euro and the USD severely weakened the Russian economy.

In recent months, oil prices and the exchange rate has improved for Russia.

Taking into account this publication and the previous work of the authors [15-38] and other authors' works [39-47] have made the following conclusions and suggestions.

6. Discussion & Conclusions

- In 2014 there has been principle change - the world's economic (GDP by PPP) leader has increased China.
- The economy of the United States has generally developed quicker than that of the EU. The EU would come first in nominal GDP and second in GDP (PPP) in the world.
- The EU-28 and the euro area emerged from the crisis, as evidenced by the positive GDP growth.
- Russian economy (GDP) almost stopped in 2014 (+0.6%) and decreases strongly in the following years. In June 2015 was of GDP decline 2.2%.
- In energy policy of the EU: establish a new treaty framework for energy cooperation with Russia while improving relations with energy-rich countries of Asia and Africa.
- With 12 years, extra-EU27 imports (all products) increased 1.8 times.
- In 2009 increased share (%) of imports of EU by product almost all product group, except raw materials and mineral fuels.
- In 2013 was EU trade balance with United States +92,250 million and with Switzerland +75,325 million, but with China -131,786 million, and with Russia -86,702 million EUR.
- In 2013 were trade imports from China 280,055 million, from United States 195,989 million, and from Russia 206,478 million EUR. From 2002 to 2013 share of extra-EU28 imports of United States declined from 19.5% to 11.6%, then China share increased from 9.6% to 16.6%, and Russia share from 7% to 12.3%.
- The biggest fall of EU-28 imports of mineral fuels was in 2009 year 34.8%. But in 2013 decline was 9.1% compared to the previous year.
- The money outflow from the EU is high, particularly in Russia and Norway. In 2002 - 2013 it has risen four times in Russia and in Norway two times.
- In 2013 was share of mineral fuels imports of Russia 32.2%, of Norway 9.9%, of Algeria 6.3%, of Nigeria 5.5%, of Saudi Arabia 5%, of Libya 4.6%, and of Kazakhstan 4.4%.
- In 2013 of export of Russia was 86% to other countries and only 14% to CIS countries.
- Crude oil production of EU has declined during the period 2002 - 2013 2.3 times and the natural gas 1.7 times.
- The EU energy security, especially in times of crisis, it is important imports of mineral fuels. The key here is Russia.
- Russian main export partners in 2013 were the Netherlands, Italy and Germany, and import partners China, Germany and United States.
- The major part of Russian exports account for fuels (75.3%) and other raw materials. Share of machinery, equipment and transport means is very small (3.6%) and it is twice the period under review decreased.
Consequently, it is vital for Russia fuel and other raw materials exports. For oil and gas production requires knowledge of other, and in particular the equipment. 

In recent months (Nov 2014 - Apr 2015) were Russian foreign trade decreased by over one third compared to the same months last year.

In the first quarter 2015 decreased EU28 exports to Russia 34% and imports from Russia -31%, extra-EU28 imports energy 31% and imports of mineral fuels (Jan-Feb) of EU-28 37% compared to the same period last year.

In the first quarter 2015 external trade (turnover) of Russia were with other (non-CIS) countries only 71.0%, with EU 63.3% and with CIS 60.6% (%) to the corresponding period of the previous year.

More than twice the decline in the exchange rate of the rouble against the euro and the US dollar and twice falling oil prices on the world market severely weakened the Russian economy.

In recent months, oil prices and the exchange rate has improved for Russia.

Russian external trade has also improved.

Consequently, the EU and Russia business need each other. Disturbances of commerce and boycotts resonate both badly.

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