

## THE IMPACT OF LOW OIL PRICES ON THE TRADE BALANCE OF BALKAN COUNTRIES AND THEIR ENERGY SECURITY



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### ABSTRACT

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This chapter examines the impact of low oil prices in the last years on the trade balance of Balkan countries and their energy security. The development of oil prices in the last years has a potential impact on all economies. Indeed the impact was positive for crude oil importing economies but in the other hand, negative impact on crude oil exporting economies. According to our analysis, the impact was positive on all Balkan economies, regardless the scale of the impact. The positive impact was clear on the trade balance of all Balkan countries, for example in 2015 they registered a significant decrease in their deficit of trade balance comparing to 2011. For the energy security of Balkan should be insured by other alternative energy resources, among them natural gas and renewable energy resources.

#### JEL Classification

F1, F4, Q3, Q4.

**Contribution/ Originality:** This paper is a contribution to the literature of energy economics for researchers and business companies operated in the energy sector. It is an analysis of oil prices and their impact on trade balance of Balkan region and explores the energy security position of that region in the last years.

### 1. INTRODUCTION

Crude oil prices have been dramatically fluctuated in the last years and the impact of that development on the global economy has been visible particularly on net importing and exporting countries of this commodity. Between 2010 – 2014, the price of Brent crude oil has fluctuated within a narrow range from 100 to 110 USD / bbl. This relatively stable, while the high price of oil, which should be called new normal, was remarkable, especially because several shocks, which at that time affected the world economy and the demand and supply of oil – geopolitical unrest in the Middle East and North Africa, international sanctions against Iran, or adaptation of new technologies in mining in the USA and the associated notable expansion of production of oil and natural gas in the USA. As we presently know, to break this stability it occurred in June 2014 when the price of oil began to fall as a result of the

growing imbalance between supply and demand. This development accelerated the decision of OPEC to unchanged the extraction quotas in November 2014.

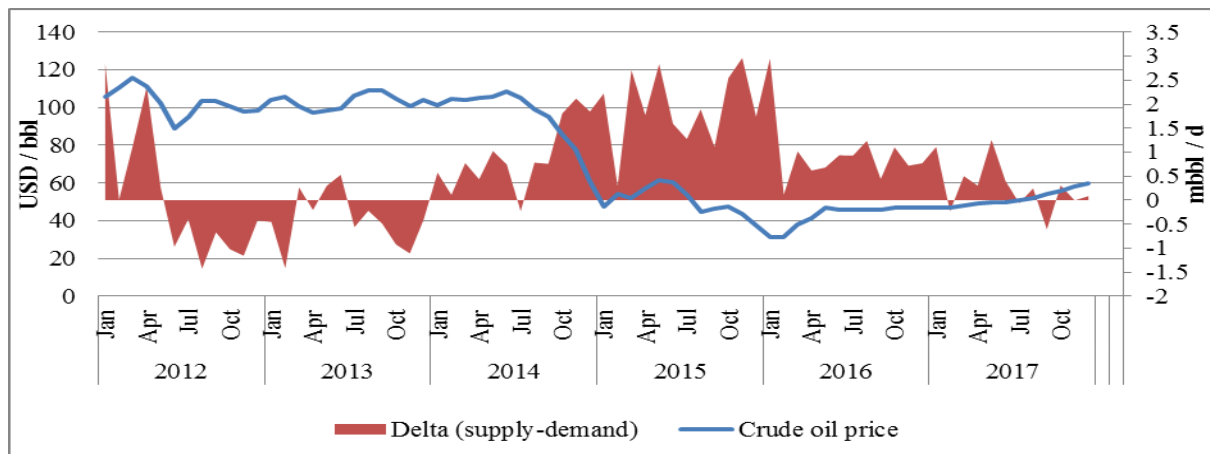


Figure-1. Crude oil price in recent years, USD / bbl

Source: Authors calculation based on BP database, 2017.

In addition, the imbalance in the oil market also contributed by other factors, such as the increase in oil production in some OPEC countries (Saudi Arabia, Iraq, Nigeria and production recovery in Libya) and outside OPEC (Russia Mexico and increasing production of shale oil) and high oil stocks in OECD countries, slowdown in the economies of the major importers of energy commodities (Obadi, 2016).

The subsequent stabilization of oil prices at the level of 50-60 USD / bbl in the first half of 2015 was not maintained and the continued imbalance in the market pushed the price of oil (Brent and WTI) to the price of USD 27 / bbl and the price basket of OPEC to 23 USD / bbl in mid-January 2016. Oil prices have since increased slightly and the average level in the second quarter of 2016, according to IMF data varied in the range 40-50 USD / bbl. While temporarily they stabilized at the higher limit of the range. The decline in oil prices between June 2014 and January 2015 by 70%, however, is also the third largest collapse in oil prices in recent thirty years after the previous collapse in prices between 1986 and 2008. As crude oil with a share of 32.9% maintained in 2015 its first place in the global energy mix and its international trade value has 786 billion USD accounts for nearly 5% of the world exports of all merchandise trade, analysis of the implications of its development is an absolute necessity for understanding what is happening in the overall global economy. In this chapter we focus on the clarification of the reasons for price developments in the last year through the analysis of supply and demand and its impact on the global economy and particularly on Balkan economies.

### 1.1. Oil supply

High oil prices in the period 2010 - 2014 represented the perfect environment to increase investment in oil production. Because of the long cycle of implementation of such investments, the results started to implement in recent years. The result was the launch of the new mining deposits, as well as slowing down the natural rate of decline in mining for existing mining areas. In 2015, as most of the major oil producers increased their production despite the 47% fall in average oil prices in the world. According to data from BP (2017) the average price of oil in 2014 was USD 99 / bbl compared to USD 52.4 / bbl in 2015. As Maugeri (2016) emphasized, a situation where countries and oil companies announcing massive cuts in investment in mining crude oil and its production continues to grow, may persist even in the year 2016, and partially in 2017. In spite of that, the capital investment and operating costs decreased in 2015 by approximately 150 billion USD. A more detailed analysis points to the fact that the pledged investments were mainly in exploration and mining projects already initiated will be completed, as the oil companies will seek to have the fastest possible return on invested capital. Therefore, according to Fattouh

(2016) bought only newly started projects in 2014 outside OPEC additional capacity of around 1.4 million bbl/d, which in turn in 2016 will rise to 2 million. bbl/d, and even in 2017 it should launch projects approved at the time when the price of oil reached 100 USD/bbl, will bring to the oil market additional 1.7 million. bbl / d. These investments would be offset natural decline in production from existing production capacities and eliminate significant correction on the supply side of non-OPEC.

It is misunderstanding if we think that the OPEC nowadays is as the past during the 70s last 20<sup>th</sup> century. Not only has a more problems within the Organisation it self to complain and realise the decision of production cut or quotes but also the Non-OPEC oil producing countries have a bigger market share in the global oil market, especially after the shale production boom in North America. Therefore it is questionable that the decision of OPEC has a long term effect on oil prices. "Looking at 2Q17, if we assume that April's OPEC crude oil production level of 31.8 mb/d is maintained, and nothing changes elsewhere in the balance, there is an implied stock draw of 0.7 mb/d. Adopting the same scenario approach for the second half of 2017, the stock draws are likely to be even greater. Even if this turns out to be the case, stocks at the end of 2017 might not have fallen to the five-year average, suggesting that much work remains to be done in the second half of 2017 to drain them further. In addition to production cuts and steady demand growth, a major contribution to falling crude stocks in the next few months will be a ramp-up in global crude oil runs. Starting in March, refinery activity is building up and by July global crude throughputs will have increased by 2.7 mb/d."<sup>1</sup> T a b l e 1:

Table-1. Oil Production in Selected Countries

Thousand barrels daily	2008	2009	2010	2011	2012	2013	2014	2015	Change over 2014
US	6785	7264	7550	7853	8883	10059	11723	<b>12704</b>	8.5%
Canada	3207	3202	3332	3515	3740	4000	4278	<b>4385</b>	2.8%
Mexico	3167	2980	2961	2942	2912	2876	2785	<b>2588</b>	-7.0%
<b>Total North America</b>	<b>13159</b>	<b>13447</b>	<b>13843</b>	<b>14310</b>	<b>15535</b>	<b>16934</b>	<b>18786</b>	<b>19676</b>	<b>4.7%</b>
Brazil	1899	2029	2137	2193	2149	2114	2346	<b>2527</b>	7.9%
Venezuela	3222	3033	2838	2758	2701	2678	2685	<b>2626</b>	-2.1%
<b>Total S. &amp; Cent. America</b>	<b>7376</b>	<b>7322</b>	<b>7348</b>	<b>7401</b>	<b>7322</b>	<b>7344</b>	<b>7605</b>	<b>7712</b>	<b>1.5%</b>
Norway	2466	2349	2136	2040	1917	1838	1889	<b>1948</b>	3.2%
Russian Federation	9950	10139	10366	10518	10639	10779	10838	<b>10980</b>	1.2%
<b>Total Europe &amp; Eurasia</b>	<b>17577</b>	<b>17760</b>	<b>17699</b>	<b>17390</b>	<b>17124</b>	<b>17166</b>	<b>17206</b>	<b>17463</b>	<b>1.4%</b>
Iran	4361	4250	4420	4466	3814	3611	3736	<b>3920</b>	4.5%
Iraq	2428	2452	2490	2801	3116	3141	3285	<b>4031</b>	22.9%
Kuwait	2786	2500	2561	2915	3171	3134	3120	<b>3096</b>	-1.1%
Qatar	1438	1421	1638	1834	1931	1903	1893	<b>1898</b>	-0.4%
Saudi Arabia	10663	9663	10075	11144	11635	11393	11505	<b>12014</b>	4.6%
United Arab Emirates	3027	2725	2895	3320	3403	3640	3685	<b>3902</b>	5.3%
<b>Total Middle East</b>	<b>26372</b>	<b>24723</b>	<b>25827</b>	<b>28160</b>	<b>28532</b>	<b>28181</b>	<b>28557</b>	<b>30098</b>	<b>5.4%</b>
Angola	1916	1804	1863	1726	1784	1799	1712	<b>1826</b>	6.8%
Nigeria	2134	2234	2535	2476	2430	2321	2389	<b>2352</b>	-1.5%
<b>Total Africa</b>	<b>10246</b>	<b>9890</b>	<b>10142</b>	<b>8548</b>	<b>9327</b>	<b>8711</b>	<b>8371</b>	<b>8375</b>	<b>0.1%</b>
China	3814	3805	4077	4074	4155	4216	4246	<b>4309</b>	1.5%
<b>Total Asia Pacific</b>	<b>8088</b>	<b>8039</b>	<b>8424</b>	<b>8287</b>	<b>8378</b>	<b>8254</b>	<b>8310</b>	<b>8346</b>	<b>0.5%</b>
Total World	82818	81182	83283	84097	86218	86591	88834	<b>91670</b>	3.2%
OPEC	36269	33998	35149	36061	37536	36621	36652	<b>38226</b>	4.2%

Source: BP (2017).

<sup>1</sup> Oil Market Report (2017).

Investment reduction, which will bring an immediate drop of oil production can be observed only in the case of US oil producers from low- permeability sands and shale. Even in the case of the decrease was slower than originally expected. Technological advances, hedging prices and concentration of activities on the most profitable deposits led to the fact that US oil production, which reached thirty-year peak in April 2015 at the level of 9,694 bbl / d, was reduced only gradually and in April fell to 8,933 bbl / d – the level it reached in September 2014. This evolution was also influenced by the launch of new conventional wells, which are not so sensitive to price fluctuations (eg. new projects in the Gulf of Mexico, according to [EIA \(2016\)](#) has increased petroleum production to 265,000 bbl / d). It is also important to add that the fall in oil prices was not for the US oil producers painless, as from 2015, has get bankrupt more than 130 American oil companies ([Obadi, 2016](#)).

Low oil prices have significantly influenced the development of oil production in Canada; it even increased in 2015 and exceeded the limit of 4 million bbl / d. The main credit for this development was the extraction of oil sands in Canadian Alberta, from which came in 2015 to 2.3 million bbl / d of oil compared to 0.6 million bbl / d in 2000. However, in 2016, according to the prediction of the National Energy Board of Canada to stop new investment basically a lot of change and total production will be significantly affected by weeks outages of production capacity amounting to more than 1 million bbl / d as a results of fires in the Canadian province of Alberta.

The effect of high oil prices on investment is clearly manifested in Europe in the North Sea, which production from the late 90s due to the exhaustion of resources gradually decreased, but the investment from the years 2011 to 2014 led in 2015 to a temporary reversal of the trend and annual growth of production reached about 150,000 bbl / d. Another country that year after year, denies analysts' expectations of unsustainable logging, is the Russian Federation, which in 2015 with the extraction of 10.8 million. bbl / d reached a new post-Soviet record production despite low prices and the imposition of international sanctions. The application of modern methods of extraction could reverse the trend of declining extraction on existing deposits and given the low level of their workload (in average is estimated at around 25%) can be expected to maintain this state also in the next few years.

Overall, the increase in oil supply from countries outside OPEC grouping concentrated mainly in the first quarter of 2015, reaching 2.3 million. bbl / d and gradually reflected a fall in oil prices, to 0.4 million. bbl / d in the fourth quarter; During the first three months of 2016 actually declined by 0.3 million. bbl / d. It was the first decline after three and a half year period of growth.

Prediction of [EIA \(2016\)](#) for 2016 and 2017 have clearly documented the effects of low prices when the expected decline in production in non-OPEC of 0.6 million. bbl / d in 2016, a further reduction of 0.2 million. bbl / d is expected in 2017. The determining factor for this development is the production of oil from low-permeability sands in the USA due to the already mentioned characteristics of this type of mining. Under another decline in mining development will be signed in the North Sea, China and at least the year 2016 has been marked through the aforementioned shutdown of mining in Canada.

Development of oil supply in the countries of OPEC have, despite the ongoing military unrest, relatively stable upward trend in 2015 contributed to the growth of 1.3 million. bbl / d. While the majority of the increase came from Iraq and Saudi Arabia, which accounted for 1.1 million. bbl / d. Saudi Arabia, whose decision was not for a reduction in production quotas OPEC started falling prices continue to successfully pursue their strategy for gaining market share. On the other hand it must be recognized that the fall in oil prices affect substantially the economy of this country. Saudi Arabia had after the slump in oil prices to considerable fiscal consolidation and announced a plan to diversify the economy and eliminate subsidies on energy already in the horizon until 2030, as well as sell a minority share of the national oil company Saudi Aramco. Given that over 80% of government revenues represent the revenues from oil. Therefore, the need for such action is necessary, although the possibility of their implementation is more than questionable ([Beukel, 2016](#)).

Iraq's production increased from about 3.4 million bbl / d at the beginning of the year to 4.5 to 4.6 million bbl / d at the end of 2015, despite the ongoing military conflict with Daish (called Islamic state-ISIS). This organization has been concentrated mainly in the northern and southern parts of the country where production is concentrated, and up to 95% of the country's exports. This conflict does not impinged directly. Iraq despite record rate of extraction in 2015 reduced its forecast of further growth, due to the aforementioned complications and consequences of low oil prices, which led to 42% yoy decline in revenues from exports of oil, and complicated its ability to repay its obligations to investors, as declining of oil revenues previously filled up to 93% of government budgets.

Military conflicts in the Middle East to a far greater extent affected oil production mainly in Yemen and Syria, whose combined output at the beginning of the millennium reached more than 1.1 million. bbl / d and in 2015 it was only slightly over 70 thousand. bbl / d. Even greater production capacity shortfall recorded Libya, which has lost more than 1.4 million. bbl / d as a result of political developments in the country.

Oil supply by OPEC, according to EIA (2016) were to increase by 1.1 million. bbl / d in 2016 and 1 mil. bbl / d in 2017, mainly due to Iran, that has in the medium-term plan for the January abolition of sanctions intended to attract investment into the country for 100 billion USD. This would help Iran raise the planned export up to 4 million bbl /d from the current 2.2 million bbl/d. During this period, according to the EIA does not expect any coordinated action to reduce the production from other producers and a possible reduction in mining that can be expected as a result of riots in Nigeria, Libya and Iraq, that produced for example in May 2016 up to 2.6 million bbl/d.

In terms of offer may therefore be concluded that the country non- OPEC countries are a major source of the reduction in respect of previous investment, however, it is only a gradual process. In contrast, the countries which are members of OPEC have the option, its offer continuous increase in the period of low prices in order to maintain market share and acquisition. It is critical both in terms of settlement of the oil market becomes demand side.

## 1.2. Demand for Oil

The collapse in oil prices in 1986 due to falling demand and growth in supply from non-OPEC countries, together with uncoordinated action by Member States of OPEC has led to decrease its importance and called for a significant change in pricing, while the period of low prices persisted during the 80s and part of the 90s. Also reactions of oil-producing countries to fall in prices in 1998, which has been stemmed from the Asian crisis and overproduction by Venezuela, were not immediate. However, the eventual agreement between producer countries confirmed the importance of OPEC. In 2008, during the global financial crisis, which led to a large fall in oil prices, OPEC has been able to respond to the temporary fall of oil prices by sharp decrease in production, which resulted in an efficient and prices as well as demand quickly returned to its original trajectory. As mentioned in the previous section analyses the current case shows markedly different characteristics and response to the current surplus production can be expected mainly from the demand side.

According to the EIA (2016) Annual oil demand Between 2000 - 2007 grew by 1.8% per annum, representing approximately 1.43 million bbl /d. Strong demand growth, which in the period amounted to 10 million bbl / d came from all regions except Europe, in particular from Asia and the Middle East; who were responsible for 66% of incremental growth of consumption. Demand in OECD countries grew by 3% (1.6 million Bbl /d) and in the years 2004-2007 even was more than 50 million bbl /d. Much faster growth in demand in emerging countries, whose consumption during the period went up by 29% (8.4 million Bbl /d) and the total demand has had a 43% share compared to 37% at the beginning of the millennium. Development of demand in the years 2008 - 2010 was significantly affected by the crisis; due to that global demand initially for two consecutive years has decreased by 0.6 million. bbl /d, followed by 1 million bbl /d, then in 2010 rose sharply by 3.1 million bbl /d. During the crisis years, it was only the decline of the OECD member countries, as consumption in developing countries during the same

period increased by 1.1 million bbl /d. A similar trend can also be seen in the same time period 2011 - 2014. Consumption in OECD countries fell compared to 2010 by 1.4 million bbl /d and compared to a peak of 2005 up to 4.7 million bbl /d. Developing countries on the other hand continued to grow strongly, which in 2014 accounted for the consumption of 47 million bbl /d and for the first time, with 51% share outpaced OECD countries.

## 2. THE ROLE OF CRUDE OIL IN ENERGY SECURITY OF BALKAN COUNTRIES

The development of oil prices in the last years, especially in the period 2014 - 2016 were in favour of oil importing countries rather than oil exporting countries. The major of Balkan countries are oil importing countries. Thus, these countries have gained from the declined of oil prices by decreasing the import value of crude oil and petroleum products in 2015 in comparison with 2011, from 38 per cent in Turkey up to 57 per cent in Albania. This development was clear in their deficit of trade balance and current account.

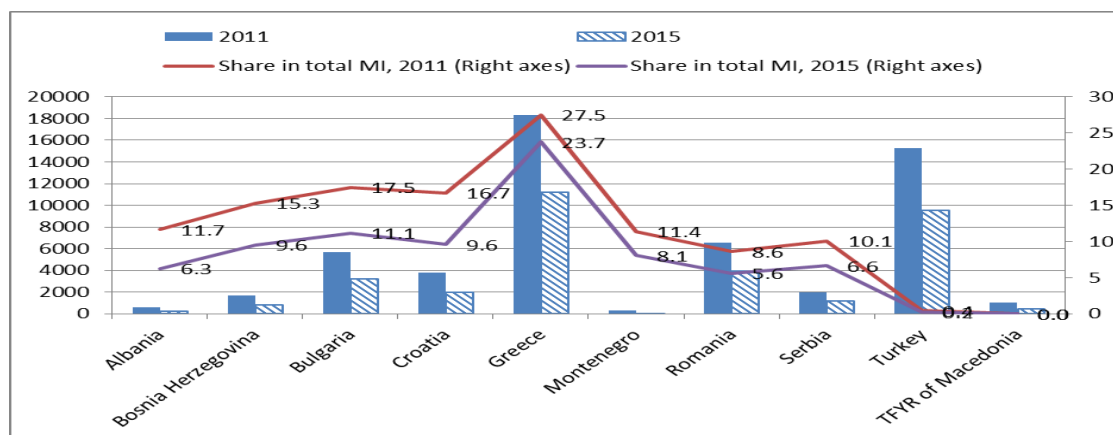
**Table-2.** Import of petroleum and petroleum products, in Million USD and % change

Country	2011	2015	% change 2015/2011
Albania	629	271	-56.9
Bosnia Herzegovina	1691	860	-49.2
Bulgaria	5684	3258	-42.7
Croatia	3793	1972	-48.0
Greece	18319	11224	-38.7
Montenegro	289	165	-43.0
Romania	6572	3930	-40.2
Serbia	1999	1207	-39.6
Turkey	15246	9554	-37.3
TFYR of Macedonia	1057	456	-56.8
<b>Total</b>	<b>55278</b>	<b>32897</b>	<b>-40.5</b>

Source: Own calculation based on [Comtrade Database \(2017\)](#)

The whole Balkan region has profited from the oil price decline in the last three years, when the import value of petroleum and petroleum products has been decreased from 55.3 billion USD in 2015 to 32,9 billion USD in 2011, which accounted about -40 per cent change comparing with 2011 (see table 2) .

It is important to emphasize that effect of the decline of oil prices in 2014 and 2015 was different among Balkan countries because of the different share of crude oil import value in total merchandize import. While the value of Turkey's import of petroleum and petroleum products accounted in 2011 about 0.4 per cent of total Turkey's merchandize import, the value of import of the same commodity for Greece accounted about 27.5 percent of total Greece merchandize import.



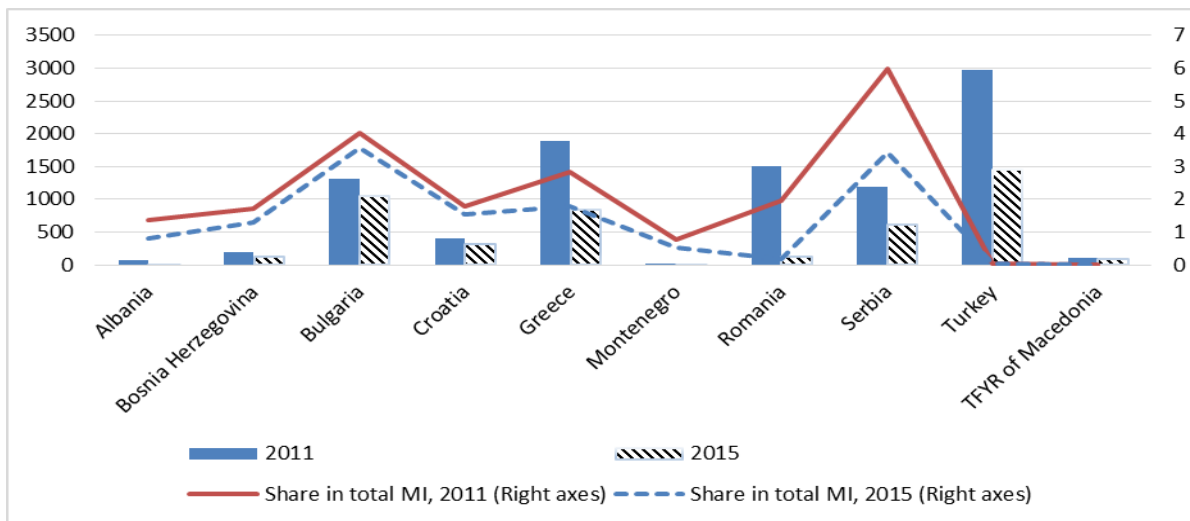
**Figure-3.** The value of import of petroleum and petroleum products of Balkan countries, Value in Million USD and % share

\*\* Total MI= Total merchandize import.

Source: Own based on [Comtrade Database \(2017\)](#).



Natural gas is until now is not as an important as crude oil for Balkan countries at least in their trade balance. While in Turkey and TFYR Macedonia the import of natural gas accounted in 2011 about null and in 2015 about 0.4 per cent, in Serbia and Bulgaria accounted about 6 per cent and 4 per cent respectively.



**Figure-4.** The value of import of Gas, natural and manufactured of Balkan countries, Value in Million USD and % share  
 \*\* Total MI= Total merchandize import.  
 Source: Own based on Comtrade Database (2017)

### 2.1. Balkan as an Important Transit Region for Natural Gas Pipelines

Energy security has gained more importance in terms of economic and political power of countries. Given that energy is the crucial indicator of economic growth, countries, which do not have energy resources, regardless the economic development, have to find diversified energy resources to insure their energy security. “The Balkans is located in an area important for the transport of oil and natural gas from the Middle East and Central Asia to western markets. This is the reason why since 1993 there were plans for eight energetic corridors to be built over the Balkans: “South stream” pipeline, then its successor the “Turkish stream”, “NABUCCO”, the “Trans-Adriatic pipeline”, “AGRI” and “East ring”, as well as the oil pipelines “AMBO” and “CPOT”. None of these projects were ever realized. The South Stream would connect Russia with Western Europe through Bulgaria, Serbia, Hungary and Slovenia. Without any doubt, it is the most important project. It is the only sustainable project. Under the current circumstances it is difficult to expect the realization of the Turkish Stream. NABUCCO was ambitious but unrealistic, and all other gas pipelines-TAP, AGRI and East Ring had a dual function.

First, they were to influence the decline of consumption of Russian gas by the EU market. And secondly, to demonstrate to the leaderships of the Balkan states that the issue of energy security could be solved by relying on other projects, in which there is no participation of Russia. Both of these tasks are debatable”<sup>2</sup>.

The project TAP (Trans Adriatic Pipeline) to be connected to an existing TANAP (Trans-Anatolian Pipeline) in Antalya, Turkey and Greece through Albania and pours in Italy. In end point of the pipeline has the capacity to reach ten billion cubic meters. The European Commission has thwarted the plans for South Stream, which could transmit Russian gas to southeastern Europe via the Black Sea. According to some EU officials, Russia plans to double the capacity of the Nord Stream pipeline to Germany, EU countries have to advert the tight grip on the north and from the south.

<sup>2</sup> Proroković (2016) Energy Security of the Balkan States: Is there any alternative to Russian gas?, Katehon, April 5, 2016. <http://katehon.com/article/energy-security-balkan-states-there-any-alternative-russian-gas>.

### 3. CONCLUSION

The development of oil prices in the last years has a potential impact on all economies. Indeed the impact was positive for crude oil importing economies but in the other hand, negative impact on crude oil exporting economies. As the majority, the impact for world economy was positive, which has been projected in 2016 by International monetary fund about 0.7 percent growth of world economy. For the Balkan countries, according to our analysis, the impact was positive on all Balkan economies, regardless the scale of the impact. The positive impact was clear on the trade balance of all Balkan countries, for example in 2015 they registered a significant decrease in their deficit of trade comparing to 2011. This development could be considered as a stabilizing factor of energy security of Balkan countries, indeed temporarily. For the energy security of Balkan should be insured by other alternative energy resources, among them we can say natural gas and renewable energy resources. Balkan Countries can benefit from their strategic position as alternative transit gas countries to west and north Europe and cooperate with European Union to be part of the present and future projects of energy resources diversification in the base of mutual benefits.

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**Contributors/Acknowledgement:** All authors contributed equally to the conception and design of the study.

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