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INDEXING / ABSTRACTING CONTACT

Home > Archives > Vol 9, No 4 (2019)

VOL 9, NO 4 (2019)

TABLE OF CONTENTS

ARTICLES

Analysis of Energy Management and Financial Planning in the Implementation of PV Systems Adalberto Ospino Castro, Carlos Robles-Algarin, Rafael Peña Gallardo	PDF 1-11
Oil Price and Slumps Effects on Personal Consumption in Saudi Arabia Haider Mahmood, Ahmad M.A. Zamil	PDF 12-15
Energy Efficient Development Model for Regions of the Russian Federation: Evidence of Crypto Mining Artur Meynkhart	PDF 16-21
Blockchain Infrastructure and Growth of Global Power Consumption Valeriia Denisova, Alexey Mikhaylov, Evgeny Lopatin	PDF 22-29
Integrating Sustainable Maintenance into Sustainable Manufacturing Practices and its Relationship with Sustainability Performance: A Conceptual Framework Yousif Munadhil Ibrahim, Norsiah Hami, Siti Norezam Othman	PDF 30-39
The Causality Relationship between Economic Growth and Energy Consumption in The World's top Energy Consumers Majed S. Almozaini	PDF 40-53
The Legal Regulation of Energy Efficiency and Energy Saving Policies in the Republic of Kazakhstan Madina Kozhukhova, Botagoz Amanzholova, Miras Zhiyenbayev	PDF 54-62
Reducing Unemployment Malaise in Nigeria: The Role of Electricity Consumption and Human Capital Development Olufunmilayo T. Afolayan, Henry Okodua, Oluwatoyin Matthew, Romanus Osabohien	PDF 63-73
Electricity Consumption, Government Expenditure and Sustainable Development in Nigeria: A Co-integration Approach Oluwatoyin A. Matthew, Tamunotonye Miebaka-Ogan, Olabisi Popoola, Tomike Olawande, Romanus Osabohien, Ese Urhie, Oluwasogo Adediran, Toun Ogunbiyi	PDF 74-80
Modeling the Influence of Attractive Petroleum Fiscal Regime Dimensions on Marginal Fields' Investment Climate in Malaysia Abdulsalam Masud, Nor Aziah Abdul Manaf, Natrah Saad	PDF 81-90
Empirical Scenarios of Emission Control and Economic Sustainability for Energy Input and Intervention of Agricultural Pesticides Ahmad Qosim, Anies Anies, Henna Rya Sunoko	PDF 91-96
The Impact of Oil Prices on Inflation: The Case of Azerbaijan	PDF

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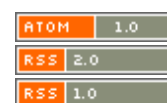
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CURRENT ISSUE



Shahriyar Mukhtarov, Jeyhun Mammadov, Fariz Ahmadov	97-102
Pseudo-Inverse Matrix Model for Estimating Long-Term Annual Peak Electricity Demand: The Covenant University's Experience Ademola Abdulkareem, E. J. Okoroafor, Ayokunle Awelewa, Aderibigbe Adekitan	PDF 103-109
Application of the Stochastic Markov Model in Predicting the Volume of Oil Spill in Nigeria: A Case of the Niger-delta Region Ifeoma Christy Mba, Emmanuel Ikechukwu Mba, Winnie Ogonna Arazu, CHINASA E. URAMA, Chioma Henrietta Machebe, Chikodili Eze	PDF 110-114
Social Governance and Production Transformation Management System in Mining Industry in Indonesia: Toward A Locally Accomodative Energy Policy Ade Saptomo	PDF 115-120
Investigating the Driving Forces of Energy Intensity Change in Malaysia 1991-2010: A Structural Decomposition Analysis Azlina Abdullah, Hussain Ali Bekhet	PDF 121-130
Volatility Spillovers in Electricity Markets: Evidence from the United States Themistoclis Pantos, Stathis Polyzos, Aggelos Armenatzoglou, Ilias Kampouris	PDF 131-143
Tax Incentives for use of Alternative Energy Sources in the Russian Federation Nadezhda V. Ponomareva, Anna O. Zvereva, Ekaterina V. Golubtsova, Svetlana B. Ilyashenko	PDF 144-148
Assessment of the Region's Energy Security Level in the Process of Formation of the Common European Energy Space Nadiia Pysar	PDF 149-157
Between Environmental Performance and Agricultural Productivity: Assessing the Convergence and Divergence of Demand-Driven Agricultural Extension Tri Widayati, Waridin Waridin, Izza Mafruhah	PDF 158-165
A Critical Review of Russia's Energy Efficiency Policies in the Construction and Housing Sector Alexander N. Alekseev, Svetlana V. Lobova, Aleksei V. Bogoviz, Yulia V. Ragulina	PDF 166-172
The Model of Upstream Investment Portfolio in the Mature Regions Liya R. Artemkina, Natalya Y. Sopilko, Olga Y. Myasnikova, Irina U. Eremina, Nataliya V. Bondarchuk, Sergey V. Shamsheev	PDF 173-180
Methodological Approaches to Research Resource Saving Industrial Enterprises Evgeniy Lopatin	PDF 181-187
Natural Resource Extraction and Economic Performance of the Niger Delta Region in Nigeria Susan Amiesa Fubara, Omowumi O. Iledare, Obindah Gershon, Jeremiah Ejemeyovwi	PDF 188-193
The Integrated Approach to Sustainable Development: The Case of Energy Efficiency and Solid Waste Management Yulia V. Vertakova, Vladimir A. Plotnikov	PDF 194-201
Are Economic Growth and Sustainable Development Converging? Evidence from the Comparable Genuine Progress Indicator for Organisation for Economic Co-operation and Development Countries Daniel Francisco Pais, Tiago Lopes Afonso, António Cardoso Marques, José A Fuinhas	PDF 202-213
The Impact of Oil Prices on Stocks Markets: New Evidence During and After the Arab Spring in Gulf Cooperation Council Economies Hani El-Chaarani	PDF 214-223
Implementation of Efficient Energy Policy in Russia: Energy Consumption Monitoring and Problem Analysis Rustam Z. Mukhametshin, Nina I. Kryukova, Alexandra V. Beloborodova, Aleksandr V. Grinenko, Olga V. Popova	PDF 224-232
Improving the Efficiency of Production Process Organization in the Resource Saving System of Petrochemical Enterprises Alexey I. Shinkevich, Svetlana S. Kudryavtseva, Marina V. Shinkevich, Indira G. Salimianova, Izida I. Ishmuradova	PDF 233-239
Modeling and Forecasting by the Vector Autoregressive Moving Average Model for Export of Coal and Oil Data (Case Study from Indonesia over the Years 2002-2017) Warsono Warsono, Edwin Russel, Wamiliana Wamiliana, Widiarti Widiarti, Mustofa Usman	PDF 240-247
A Tale of Income and Energy in Rural Areas: What Contributes to People's Happiness? Evidence from Eastern Indonesia Hizkia H. D. Tasik	PDF 248-255

External Effects of Renewable Energy Projects: Life Cycle Analysis-based Approach Anastasia Salnikova, Yuri Chepurko, Nadezhda Starkova, Hiên Nguyễn Hoàng	PDF 256-262
Application of ARIMA Modelling for the Forecasting of Solar, Wind, Spot and Options Electricity Prices: The Australian National Electricity Market Yasir Alsaedi, Gurudeo Anand Tularam, Victor Wong	PDF 263-272
Development of Digital Economy in the Energy Industry-specific Modernization Ivan A. Kapitonov, Tatiana G. Filosofova, Vitaly G. Korolev	PDF 273-282
Dynamic Effects of Energy Consumption on Economic Growth in an Emerging Economy Jaka Sriyana	PDF 283-290
The Relationship between Foreign Direct Investment and Renewable Energy Production: Evidence from Brazil, Russia, India, China, South Africa and Turkey Zerrin Kilicarslan	PDF 291-297
Determination of Causality in Prices of Crude Oil Salman Sarwat, Muhammad Kashif, Muhammad Aqil, Farhan Ahmed	PDF 298-304
The Effect of Global Prices of Crude Palm Oil, Marketing Margins and Palm Oil Plantations on the Environmental Destruction: An Application of Johansen Cointegration Approach Syahril Syahril, Raja Masbar, Sofyan Syahnur, Shabri A. Majid, T. Zulham, Jumadil Saputra, Saiful Badli, Irmayani Irmayani	PDF 305-312
The Effect of Gross Domestic Product and Population Growth on CO2 Emissions in Indonesia: An Application of the Ant Colony Optimisation Algorithm and Cobb-Douglas Model Sukono Sukono, Wahyuddin Albra, T. Zulham, Iskandarsyah Majid, Jumadil Saputra, Betty Subartini, Friscila Thalia	PDF 313-319
The Impact of Information and Communication Technology on Carbon Emissions in Emerging Markets Kunofiwa Tsaurai, Bester Chimbo	PDF 320-326
Stakeholder Perception and Awareness on the Causal Relationship between Mining Exploitation and Environmental Degradation in Minahasa Region Indonesia Flora P. Kalalo	PDF 327-333
Does Financial Development Matter for Environmental Kuznets Curve in Russia? Evidence from the Autoregressive Distributed Lag Bounds Test Approach Alexander Bass, Dmitry Burakov, Max Freidin	PDF 334-341
Green Tax Reform and Employment Double Dividend in European and Non-European Countries: A Meta-Regression Assessment Maruf Rahman Maxim, Kerstin K. Zander, Roberto Patuelli	PDF 342-355
Effects of Oil Price Changes on Regional Real Income Per Capita in Kazakhstan: Panel Data Analysis Sabit Baimaganbetov, Dinmukhamed Kelesbayev, Rima Yermankulova, Bibigul Izzatullaeva, Botagoz Almukhambetova	PDF 356-362
Features of the Use of Renewable Energy Sources in Agriculture Tokhtar Bolyssov, Bauyrzhan Yessengeldin, Gulvira Akybayeva, Zamzagul Sultanova, Azamat Zhanseitov	PDF 363-368
Oil Exploration and Exploitation in Nigeria and the Challenge of Sustainable Development: An Assessment of the Niger Delta Michael Oguwuike Enyoghasim, Lasbrey Anochiwa, F. Tobeche Agbanike, Iyke Uwazie Uwazie, E. Uma Kalu, O. Kelvin Onwuka, Sunday Amalunweze Okwor, Ikwor Okoroafor Ogbonnaya	PDF 369-380
The Impact of Oil Factor on Azerbaijan Economy Sugra Ingilab Humbatova, Ragif Kh. Gasimov, Natig Gadim-Oglu Hajiye	PDF 381-387
Responsiveness of Residential Natural Gas Demand to Elderly, Urban Population and Density: Evidence from Organization for Economic Co-operation and Development Countries Mohamed Jaouad Malzi, Aziz Ettahir, Said Hanchane	PDF 388-395
Reducing Electric Power Losses in the System of Power Supply Due to Compensation of Higher Harmonics of Currents: Economic and Energy Efficiency Outcomes Mikhail A. Averbukh, Nikolay A. Zhukov, Stanislav V. Khvorostenko, Vasilii I. Panteleev	PDF 396-403

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THE IMPACT OF OIL FACTOR ON AZERBAIJAN ECONOMY

Sugra Ingilab Humbatova, Ragif Kh. Gasimov, Natig Gadim-Oglu Hajiye

ABSTRACT

The paper examines the role of oil in the world economy and its impact on Azerbaijan economy. The reciprocal relations between factors in research were carried out by differential model of time series and times series have been checked whether they are unit root (Augmented Dickey-Fuller (ADF), Phillips-Perron (PP) and Kwiatkowski-Phillips-Schmidt-Shin (KPSS) as a methodology of the research. The research focused on the econometric analysis through traditional methods and statistics like EViews 9, GRET, PASW Statistics. The results confirm that the formation of demand and supply didn't happen in the world market during 15-20 years. The relationships between oil prices and demand and supply prove the novelty of the research. The impact of oil price fluctuations on "economic concept" was high in 2007-2009 and 2014-2016. The practical importance of the article is the employment of the income – generated from "the contract of the century" – for the human development.

Keywords: Economic Development, Oil Prices, Econometric Analysis, Functional Dependence, Macroeconomic Indicators

JEL Classifications: E31, F31, Q41

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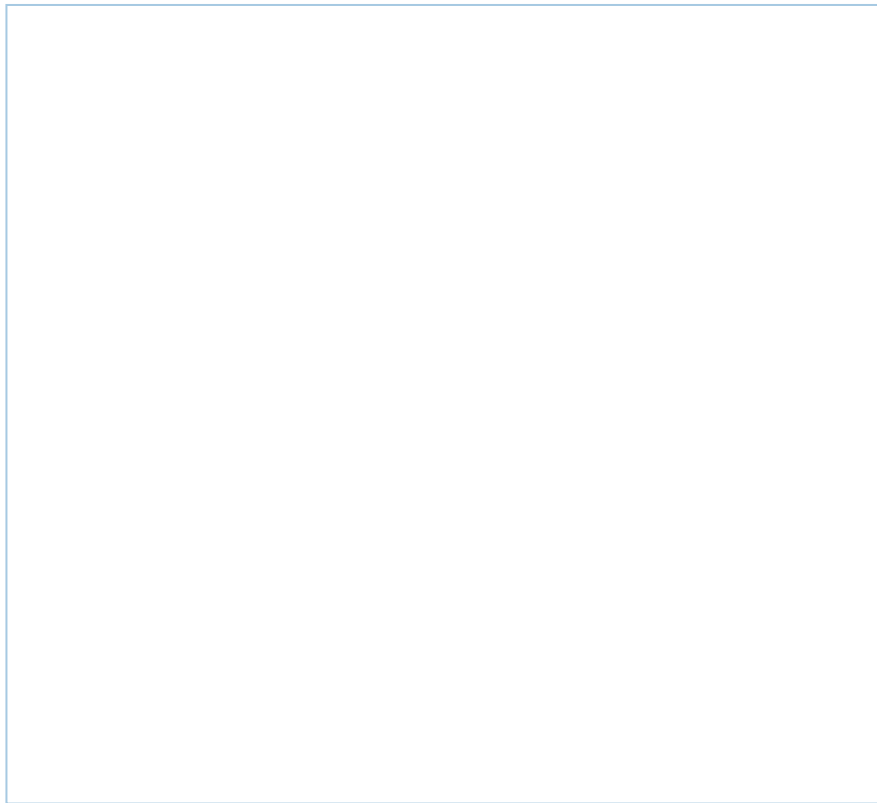
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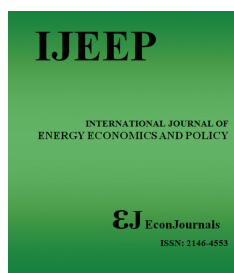
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The Impact of Oil Factor on Azerbaijan Economy

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ABSTRACT

The paper examines the role of oil in the world economy and its impact on Azerbaijan economy. The reciprocal relations between factors in research were carried out by differential model of time series and times series have been checked whether they are unit root (Augmented Dickey-Fuller (ADF), Phillips-Perron (PP) and Kwiatkowski-Phillips-Schmidt-Shin (KPSS) as a methodology of the research. The research focused on the econometric analysis through traditional methods and statistics like EVIEWS 9, GRETL, PASW Statistics. The results confirm that the formation of demand and supply didn't happen in the world market during 15-20 years. The relationships between oil prices and demand and supply prove the novelty of the research. The impact of oil price fluctuations on "economic concept" was high in 2007-2009 and 2014-2016. The practical importance of the article is the employment of the income – generated from "the contract of the century" – for the human development.

Keywords: Economic Development, Oil Prices, Econometric Analysis, Functional Dependence, Macroeconomic Indicators

JEL Classifications: E31, F31, Q41

1. INTRODUCTION

World Oil market is still in the centre of attentions in the modern world (Bataa et al., 2016; Liu et al., 2015). Thus, it is the energy driven factor of world economics, stock market, oil exporting and importing countries' economics, exchange rate and etc. (Baffes, 2007; Jadidzadeh and Serletis, 2017). Modern oil market is featured in developing dynamics and it is related to the increase of consumption and world production. During 2005-2015, oil consumption and production increased 12.1% and 11.9% respectively. Besides, there is unstability in the world oil market. This case was observed seriously in 2008 and 2014-2016.

Average oil price was 43.55 dollar/barrel in 2016. This is the lower indicator than in 2016. However, it was 38.1 dollar/barrel in 2004. Having low prices was related to geopolitical issues. War and conflicts in the Near East, economic sanctions to Russia and

etc. For the purpose of making the balance in the world oil market, oil exporters embarked on negotiations to impose a quota on oil production in February 2016 and in December, they concluded the agreement with "freezing". During that period, oil price had been 50 dollars. Oil price had been 53-57 dollar/barrel at the beginning of December. Oil market affects on the world economy and other energy driven factors. Although it is expected to be reduced in the near future, oil governs the world economics and policy now.

2. LITERATURE REVIEW

Ghalayini (2011) researched the fluctuation of oil prices and concluded that price shocks affected macroeconomic indicators through different channels. Geopolitical doubts and certain market dissections paved the way to mercenaries and speculative resources to turn out in the world oil market. In turn, it caused the increase of prices for a short period again

(ADB, 2004). Another economists Hamilton (1983) and Bruno and Sachs (1982), who researched the fluctuation of oil prices, explained the impact of oil prices on economic development, unstability of financial growth and inflation in 1950-1979 in the United Kingdom. They came to a conclusion that variables were closely connected to each other. Thus, fluctuations affect large economies unconstructively. The increase of oil prices causes the increase of prices in economy and reduces employment and productivity (Dornbusch et al., 2001).

Besides, it has been concluded that oil price interconnects with the legislation of local authorities (Siddiqui, 2005). The increase of oil prices causes the inflation to go up and to reduce the profit generated from products and services and weakens economic

development. Every government faces this problem when they want to increase oil prices (Nooreen et al., 2007).

Oil prices have a huge influence on the world economy but it is hard to determine because they are different for each country (Arezki and Blanchard, 2015, Barsky and Kilian, 2004). Michael and Menzie (2004) has concluded that impact of energy resources on economy is completely different from other resources. He claimed that inflation is directly influenced by oil prices. Besides, Turkish scholars Hakan and Taşçı (2002), Aydoğuş (1993), Olgun (1982) researched the influence of oil prices on Turkey, inflation and economic development. They concluded that salary and other factors such as profit, interest rate and rent must be regulated on the basis of oil prices and level of current prices.

Study	Period and Country/Region	Methodology	Results of the study
Guglielmo et al. (2015)	China, 1997M1-2014M2	VAR–GARCH–in–mean model, VAR DCC–GARCH–in–mean model	Exchange rates in the stock market depend on the world oil price positively
Siok et al. (2015)	China, 1980-2010	ARDL Model	World oil prices influence on the main determinants of inflation in less dependent sectors of oil – on real exchange rates direct, on production expenditures of exporters indirect. It is recommended to reduce the effects of these shocks through exchange policy
Fatih and Fethi (2016)	Turkey, 2004-2014	VAR model	Oil prices influence to the production prices of oil twice more than retail ones
Seyhun and Demezca (2015)	Turkey, 2001M2-2011M7	Kejriwal – Perron (2009) test results, cointegration	Oil prices directly influence on exchange rates
Lanouar, et al. (2018)	USA, 1947Q2-2016Q4	AR (p)–GARCH	Oil prices impact little on economic development. The impact is non–linear and not constant
Sakib (2014)	Bangladesh	Real business cycle (RBC) model, dynamic stochastic general equilibrium (DSGE) analysis. Impulse Response Functions (IRFs)	Oil prices are not the main factors of business cycle of economics
Nooreen et al. (1998)	Pakistan, 1998M3-2005M12	GARCH, Granger causality test	There is no strong relations between oil prices and stock market. The reason for this is the utilisation of gas beside oil
Umut et al. (2013)	Turkey, 1991M1-2010M2	Fully modified OLS (FM–OLS), dynamic OLS (DOLS) cointegration	There is a long–term and direct relationship among exchange rates and oil prices as well as exchange rates of securities (stock market)
Osigwe and Arawomo (2015)	Nigeria	The Granger causality test within an ECM framework was used to estimate the inter–linkage among the variables	There is no relations between kerosene prices and consumption and economic development. There is a positive relation between energy consumption and economic development
Foudeh (2017)	Kingdoms of Saudi Arabia, 1995Q4-2015Q4	ARDL model	Oil prices impact on GDP positively. Trade balance, budget, internal economics, gold–currency reserves, foreign investment are directly related to oil prices. It directly impacts on the main determinant of economics – government expenditures
Theodosios and Dagoumas (2017)	Russian, 1995-2014	Two vector autoregressions (VARs) and VECM	Macroeconomic indicators such as – industry production index, unemployment, GDP, government expenditures depend on oil factors like oil price and oil production but there is no evidence for Dutch disease
Elsiddig et al. (2016)	Sudan, 2000Q1-2011Q2.	ARDL, VAR model, Granger causality test	There is an adverse relation between oil prices and macroeconomic indicators of developed countries. However, it affects underdeveloped countries like Sudan directly. The reduction of oil prices makes the oil prices down, cut down current prices and government budget. But the increase of oil price doesn't impact on budget resurgence (Granger causality). Oil prices affect the budget asymmetrically

Study	Period and Country/Region	Methodology	Results of the study
Aynur (2016)	OESD,1995-2013.	Panel VECM, Granger causality tests, cointegration	There is cointegration among economic development, energy consumption, employment and capital. There is relations between economic development and energy consumption in a short period (VECM). However, there is no relations between economic development and energy consumption in a long term
Nasser et al. (2016)	Oman 1980-2012	Simple macroeconomic model, Regression analysis	Oil sector influences on GDP and all sectors of economy positively. The strongest impact happens in gas sector but the weakest in agrarian sector.
Yusoff and Bekhet (2016)	Malaysian 1990-2013	Furthermore, on the basis of the standardised CGE model developed by Lofgren et al. (2002), an energy subsidies CGE (ESCGE) model was established. Model of the general balance (MGB) constant elasticity of substitution (CES)	Economics is far away comprehensive development Fuel and tax subsidies have a strong influence on energy consumption structure. Reduction in fuel and tax subsidies will reduce energy consumption and will stimulate alternative energy sources. This will cause the reduction of budget shortcoming and will increase GDP
Aziz and Dahalan (2015)	ASEAN-5 Malaysia Indonesia and Singapore Thailand and Philippines. 1991-2012	Panel regressions analysis	Oil price fluctuations impact on RSCA negatively in all technological processes
Bass (2019)	Russian, 2010-2017	VECM, Granger causality tests, cointegration	The influence of world oil price fluctuations on inflation and exchange rate in Russia has been examined. World oil price, inflation and exchange rate is in the cointegration. Oil price and exchange rate are one of the factors that cause inflation
Mourad and Ben-Salha (2019)	WORLD, 1990M1-2017M11	Linear and Nonlinear ARDL modeling	Oil price changes directly affect food prices in global scale
Kilian (2009)	USA 1973M1-2007M12	The structural VAR model	Cause effect reactions between macroeconomic indicators and oil price has been changed. Different reasons of oil price increase affect differently to economics
Ghalayini (2011)	OPEC, G-7, Russian, India and China, 2000Q1-2010Q1	Granger Causality tests	The increase of oil price for oil exporting countries doesn't influence on their economic development. However, the dependence of G-7 countries on oil reduce their GDP a bit
Hamilton (1983)	USA 1947-1981	Granger Causality tests	The correlation between oil price and produced products is only statically compliance. There is no systematics case
Bruno and Sachs (1982)	United Kingdom 1950-1979	Macroeconomics analysis	Oil price shocks directly affect to production and its price and effectivity in a long term
Hakan and Taşçı (2002)	Turkey1990	Input-output analysis	If Salary, rent, profit are stable, the oil price increase cause inflation not much. However, oil price becomes string if it changes according to oil price and even causes hyperinflation
Mathew and Ngalawa (2017)	1980M1-2015M4	PSVAR	Oil price shocks directly affect African oil exporting countries economy via currency-credit system, unemployment, exchange rate and etc., It stimulates business. There is a correlation between GDP and oil price
Hamilton (2005)	USA 1949Q2-1980Q4	OLS regression	After second world war, 9/10 downsizing had been prior to oil prices in the USA
Kilian (2009)	USA 1947-2005	The fitted value of the linear ordinary least squares (OLS) regressions	Oil shock impact is asymmetric
Michael and Menzie (2004)	USA, United Kingdom, France, Germany and Japan. 1980-2005	ARDL, Fillips curve	European countries and Japan have been affected more than the USA by oil shocks since they are dependent on oil prices. Generally, it wasn't strong impact
Hamilton (2010)	USA 1949Q2-2001Q3	OLS to estimate the forecasting regression, impulse-response functions.	This paper reviews some of the literature on the macroeconomic effects of oil price shocks with a particular focus on possible nonlinearities in the relation and recent new results obtained by Kilian and Vigfusson (2009)

Study	Period and Country/Region	Methodology	Results of the study
Apergis and Miller (2009)	USA Austria, Canada, France, Germany, Italy, Japan, England	SVAR	Oil price fluctuations don't impact on stock market significantly
Basher and Sadorsky (2006)	BRIC (Russian, Brazil, India, China)	CAPM	Russian and Brazilian stock market is specifically active. India and China are witnessed the adverse effect. It is related with their strong influence to international economics
Filis <i>et al.</i> (2011)	Canada, Mexico, Brazil, USA, Germany, Nederland 1987M1-2009M12		They have revealed direct relationship in all cases. Besides, it has been determined that the correlation is increasing related to the market of developed countries
Li <i>et al.</i> (2012)	China 2001M1-2005M10, 2005M11-2007M06	Cointegration and causal analysis	The dependency between oil price and stock market was determined as direct and straight

GDP: Gross domestic product

3. MATERIALS AND METHODS

In the research, world GDP, world industry production, daily oil production and including oil price have been generated by internet resources. Azerbaijan macroeconomic indicators have been taken from Azerbaijan State Statistics Committee.

For econometric analysis, we have used simple and complex regressions:

$$\hat{y} = a + bx \quad (1)$$

Simple regression function includes:

$$0,7 < |r_{xy}| \leq 1, n \geq 6 \quad (2)$$

$$\hat{y} = a + b_1x_1 + b_2x_2 + \dots + b_mx_m \quad (3)$$

Complex regression function includes:

$$0,3 < |r_{x_k y}| \leq 1; |r_{x_k x_l}| < \min(|r_{x_k y}|, |r_{x_l y}|), \quad (4)$$

$$\forall k \neq l, \forall k, l = \overline{1, m}; n \geq 6m$$

Simple linear regression function is used in terms of the simplicity of economic significance of the model.

So, the more the regression function is complex, the more complex is the parameter.

In case of the lack of information, having more regression parameters is statistically important or causes the low quality of the model by criteria. We have established models by using special econometric computer programs.

The smallest square method has been used for the calculation of linear regression function parameters. It is required to choose regression parameters carefully:

$$S(a, b_1, b_2, \dots, b_m) = \sum_i (y_i - \hat{y}_i)^2$$

$$= \sum_i \left(y_i - a - b_1x_{i1} - b_2x_{i2} - \dots - b_mx_{im} \right)^2 \rightarrow \min \quad (5)$$

The following parameters are required for the quality of regression model:

1. General importance is verified: $F \geq F_{\alpha; m, n-m-1}$
2. The importance of regression function parameters is verified: $|t| \geq t_{1-\alpha; n-m-1}$
3. The verification of the *smallest square method*.

However, since time series are mostly non-stationary the employment of the ordinary least squares (OLS) method might cause fake linear dependency among variables. The probability is high among our time series, that's why we can only mention three of them:

1. Let's insert the lag order inputs (indicators) on the right side of $y_t = a + \beta x_t$ equation.

$$y_t = a + \beta_{xt} + \gamma y_{t-1} + \delta x_{t-1} + u_t \quad (6)$$

Here, u_t – is stationary series while x_{t-1} is an exogen indicator.

We can establish this equation in 2 forms:

$$a. \quad y_t = a + \gamma y_{t-1} + \beta \Delta x_t + (\beta + \delta) x_{t-1} + u_t \quad (7)$$

$$b. \quad y_t = a + \gamma y_{t-1} + (\beta + \delta) x_t - \delta \Delta x_t + u_t \quad (8)$$

In both cases, integrated $y_t \sim I(1)$ stands here. β zero – on the right side of the equation is the coefficient of Δx_t stationary variable. $y_{t-1}, x_{t-1} \sim I(1), u_t$ – is stationary series. Sims *et al.*, (1990) indicated in his article that the employment of the ordinary least squares method is important for the coefficient of the equation. β is normal unless it is asymptotic. The usual t – statistics possesses asymptotic normal distribution $N(0,1)$ in order to check $H_0: \beta=0$ hypotheses. Analogically, δ on the right side of the equation is the coefficient of Δx_t stationary variable $y_{t-1}, x_{t-1} \sim I(1), u_t$ – is stationary series. That's why δ is normal unless it is asymptotic. The usual t – statistics possesses asymptotic normal distribution $N(0,1)$ in order to check $H_0: \delta=0$ hypotheses.

2. Prior to model assessment, let's differentiate series, in other word, let's analyse the model in series difference.

$$\Delta y_t = a + \beta \Delta x_t + u_t \quad (9)$$

In that case, we can see that in equation u_t – is stationary series. In this model, the assessment of the ordinary least squares for either a or β is normal unless it is asymptotic. If u_t – white noise,

then both t -statistics possess asymptotic normal distribution $N(0,1)$.

3. Using autocorrelation regression model for assessment.

$$y_t = \alpha + \beta x_t + u_t, u_t = \rho x_{t-1} + \varepsilon_t, u_t \sim i.i.d.N(0, \sigma_\varepsilon^2) \quad (10)$$

In case of fake regression $\hat{\rho} \rightarrow 1$ (on probability). That's why, in case T is higher, this method equals to primary differentiation method of series. We will employ the second method – primary differentiation method of series.

4. EMPIRICAL RESULTS AND DISCUSSION

First of all, the stationary of time series has been checked and tested though commonly-accepted three tests (ADF – Augmented Dickey–Fuller, PP – Phillips–Perron and KPSS – Kwiatkowski–Phillips–Schmidt–Shin). Tests have been done through EVIEWS 9 econometric program (Table 1).

Abbreviations		
WGDP	World gross domestic product, dollar	mln. dollar
WIP	Industrial production, dollar	mln. dollar
WPP	World production, barrel	mln. barrel per a day
WCP	World consumption, barrel	mln. barrel per a day
PB	Oil prices	\$/Barrel
AZGDP	Azerbaijan gross domestic product, manat	mln. manat
AZIFC	Azerbaijan investment on fixed capital, manat	mln. manat
AZOP	Azerbaijan oil production, ton	mln. ton
AZETT	Azerbaijan external a trade turnover, dollar	mln. dollar
AZIM	Azerbaijan, import, dollar	mln. dollar
AZEX	Azerbaijan, export, dollar	mln. dollar

ADF reveals that world GDP, world industry production, oil prices, world oil production (supply) and world oil consumption (demand) are in the 1st difference and stationary in three cases (constant; constant and linear trend; none). Only world GDP in

the 1st difference is not stationary in one case (none). This result is suitable for the method. The results of PP is similar to ADF test, but is unclear a bit. Thus, world GDP and oil process are stationary (none) both in 1st difference and in simple case. KPSS test is also unclear. The above-mentioned facts might be referred to time series tests of Azerbaijan macroeconomic indicators.

The coefficients of only two of the models (models 1 and 2) that reflect the impact of World GDP, world industry production, daily oil production (supply) and oil consumption (demand) on oil price are statistically significant (Table 2). In other words, world GDP and world industry production influence on world oil prices. It can be inferred that model 3 and 4 has no any impact of world daily oil production (supply) and oil consumption (demand) on world oil prices. Thus, the coefficients are not statistically significance. According to the Breusch–Godfrey Serial Correlation LM Test, autocorrelation in models doesn't exist. Autocorrelation exists only in model 3. So, we can infer that although world industry production plays a certain role in world oil price fluctuation and world GDP, daily oil production (supply) and oil consumption (demand) don't impact on world oil price. As mentioned in the beginning of the research, non-economic factors play a role in oil price fluctuations (up and down).

The models (model 5-8) reflecting the dependency of investment on fixed assets on oil price and oil production in Azerbaijan happens the adverse process (Table 3). So, model 5 and 7 either constant or oil price coefficient is statically significance. Generally, model is significant and adequate. However, model 6 and 8 (models that reflect the dependency of oil price on Azerbaijan GDP and investment on fixed capital) are not statistically significance (reflecting oil production coefficient in Azerbaijan) and generally, models are not adequate. It gives an evidence once more that Azerbaijan's GDP and investment on fixed capital depends entirely on the oil price and does not depend on the volume of oil production in Azerbaijan (mainly in the short-term). According to the Breusch–Godfrey Serial Correlation LM Test, autocorrelation has been active in model 5.

Table 1: The unit root test results (1st difference)

Variables	Constant			Constant and trend			None	
	ADF	PP	KPSS	ADF	PP	KPSS	ADF	PP
PB	-4.10***	-4.10***	0.23	-4.33**	-4.50**	0.16**	-4.16***	-4.16***
WGDP	-3.71**	-3.67**	0.13	-3.32*	-3.59*	0.12*	-0.75	-2.423**
WIP	-3.76**	-3.73**	0.15	-3.71**	-3.67*	0.12*	-3.12***	-3.12***
WCP	-3.95***	-4.00***	0.12	-3.82**	-3.83**	0.11	-2.35**	-2.30**
WPP	-5.33***	-5.58**	0.09	-5.15***	-5.49***	0.09	-3.05***	-3.05***
PB	-3.52**	-3.48**	0.17	-3.64*	-4.24**	0.17	-3.59***	-3.56***
AZGDP	-3.33**	-3.26**	0.12	-3.22	-3.09	0.11	-2.08**	-1.97**
AZIFC	-3.61**	-3.59**	0.11	-3.53*	-3.51*	0.10	-2.63**	-2.63**
AZOP	-1.77	-1.76	0.25	-2.08	-2.06	0.09	-1.77*	-1.77*
AZETT	-6.47***	-6.78***	0.19	-6.51***	-7.29***	0.23***	-6.59***	-6.85***
AZEX	-6.69***	-7.02***	0.16	-6.71***	-7.70***	0.09	-6.88***	-7.23***
AZIM	-4.48***	-4.48***	0.16	-4.67***	-4.69*	0.11	-3.83***	-3.86***

ADF denotes the Augmented Dickey–Fuller single root system respectively. The maximum lag order is 3. The optimum lag order is selected based on the Schwarz criterion automatically; ***, ** and * indicate rejection of the null hypotheses at the 1%, 5% and 10% significance levels respectively. The critical values are taken from MacKinnon (MacKinnon, 1996).

PP Phillips–Perron is single root system. The optimum lag order in PP test is selected based on the Newey–West criterion automatically; ***, ** and * indicate rejection of the null hypotheses at the 1%, 5% and 10% significance levels respectively. The critical values are taken from MacKinnon (MacKinnon, 1996). KPSS denotes Kwiatkowski–Phillips–Schmidt–Shin (Kwiatkowski *et al.*, 1992) single root system. The optimum lag order in KPSS test is selected based on the Newey–West criterion automatically; ***, ** and * indicate rejection of the null hypotheses at the 1%, 5% and 10% significance levels respectively. The critical values are taken from Kwiatkowski–Phillips–Schmidt–Shin [90]. Assessment period: 1999–2017*

Table 2: The dependency of oil price on the world GDP, industry production, demand and supply for oil

Variables	Model 1	Model 2	Model 3	Model 4
	ΔPB	ΔPB	ΔPB	ΔPB
ΔWGP	0.005***			
ΔWCP			3.389	
ΔWIP		0.016***		
ΔWPP				1.292
C	-10.949***	-6.10***	-1.302	1.028
R ²	0.776	0.847	0.033	0.009
Adj. R ²	0.763	0.837	-0.023	-0.049
F-st.	59.002	93.717	0.592	0.158
Pr.(F-st.)	0.000001	0.000000	0.452	0.696
D-W st.	1.633	1.999	1.992	2.038
Breusch–Godfrey serial correlation LM test				
F-st.	0.229	0.099	0.043	0.084
Obs* R ²	0.555	0.247	0.110	0.211
Pr. F (2,15)	0.800	0.906	0.957	0.919
Pr. Chi-square (2)	0.757	0.883	0.946	0.899

*P<0.05; **P<0.01; ***P<0.001 GDP: Gross domestic product

Table 3: The influence of oil price and oil production on GDP and investment on fixed capital

Variables	Model 5	Model 6	Model 7	Model 8	Model 9	Model 10	Model 11	Model 12	Model 13	Model
	$\Delta AZGDP$	$\Delta AZGDP$	$\Delta AZIFC$	$\Delta AZIFC$	$\Delta AZIM$	$\Delta AZIM$	$\Delta AZEX$	$\Delta AZEX$	$\Delta AZETT$	$\Delta AZETT$
ΔPB	203.78***		55.95***		35.67**		563.02***		598.67***	
$\Delta AZOP$		0.03		-0.10		-0.03		-0.47		-0.50
C	3399.77***	3808.22**	845.30***	1114.83	350.87	477.60	-538.58	1375.83	-187.69	1848.57
R ²	0.77	0.0006	0.62	0.09	0.42	0.01	0.59	0.02	0.61	0.02
Adj. R ²	0.69	-0.07	0.59	0.03	0.39	-0.05	0.56	-0.05	0.59	-0.03
F-st.	37.77	0.009	24.08	1.55	12.03	0.25	22.51	0.34	24.93	0.35
Pr.(F-st.)	0.00001	0.92	0.0001	0.23	0.003	0.61	0.0002	0.56	0.0001	0.55
D-W st.	0.69	1.77	1.41	1.77	3.22	2.15	2.66	2.80	2.69	2.77
Breusch–Godfrey serial correlation LM test										
F-st.	8.97	0.69	0.77	0.25	4.97	0.25	1.36	1.50	1.52	1.25
Obs* R ²	9.86	1.59	1.77	0.61	7.47	0.63	2.92	3.17	3.22	2.77
Pr. F (2,15)	0.003	0.52	0.49	0.77	0.02	0.77	0.29	0.25	0.29	0.31
Pr.	0.007	0.45	0.42	0.77	0.02	0.77	0.231	0.20	0.19	0.25
Chi-square (2)										

*P<0.05; **P<0.01; ***P<0.001. GDP: Gross domestic product

The macroeconomic indicators of the Azerbaijani manat and the models (models 9, 11 and 13) expressed in figures from the models reflecting the influence of oil prices on macroeconomic indicators in Azerbaijan (model 9-14) are statistically significant and the models are adequate. However, these indicators are expressed in models that are dependent on oil prices (models 9,11 and 13) but macroeconomic indicators are statistically significant, and the constants are negligible. Thus, the results of these models (model 9-14) once again prove that the relationship between oil prices and many macroeconomic indicators is different in oil exporting and oil importing countries.

5. CONCLUSION

The reasoning of models either economic or mathematical point of view can closely be related to the relative proximity of the economic growth rate with oil production and price rate. Unlike world economic situation, as noted above, there is no absolute dependency close to between world oil production and consumption as well as the relative dependency among world oil production, consumption and world GDP and in general, dependency between oil price and these factors (world oil

production, consumption and world GDP), especially in the last decade. That's why our Azerbaijan also witnesses the reverse processes. Although economic growth and demand act as an important factor in the world oil price, it can be inferred that the economic growth observed in Azerbaijan, one of the world's smallest exporter of oil production in the world, is largely dependent on oil production and oil prices.

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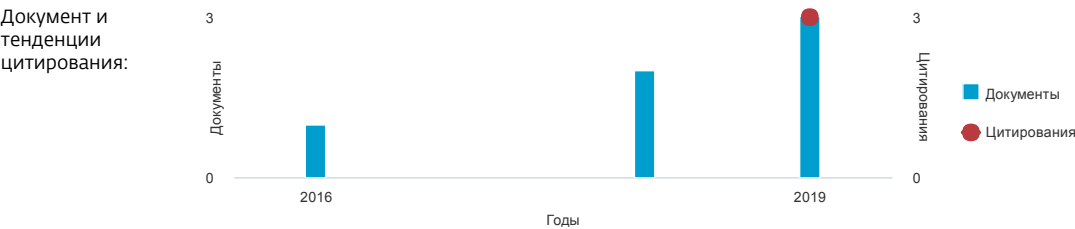
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