

OGET 8009	The Geopolitics of Energy	L	T	P	C
Version 7.0		3	0	0	3
Pre-requisites/Exposure	Graduate in any field/ Building energy market understanding				
Co-requisites	--				

Course Objectives

The objective of this course is to:

1. To understand the energy security concerns of producer and consumer countries
2. To identify and analyse how countries have altered their foreign policies, domestic efforts, and military strategies in light of such concerns
3. To examine shifting trends in the energy realm, with a major focus on the unconventional revolution
4. To anticipate new patterns and structural shifts in the international environment in light of these trend

Course Outcomes

- CO1:** Demonstrate a clear understanding of the concepts related to global energy trade
- CO2:** Analyze issues in global oil and gas markets and take a strategic view of the geopolitical issues impacting the industry.
- CO3:** Develop and evaluate the companies/government decisions and align it with the strategic business objectives of a firm/nation.
- CO4:** Demonstrate a clear understanding of business and tactical issues impacting global trade.

Catalog Description

Energy has long been a major factor in the formulation of country strategies, the exercise of national power, and in shaping international politics and security. Given on-going concerns about energy security and increasing pressures to reduce carbon emissions, countries are grappling to situate their energy policies in the broader context of their grand strategies. Recent tensions between Israel, Turkey, Cyprus, and Lebanon over natural gas findings in the Mediterranean Sea, China's recent economic slowdown and its implications for global energy, and recently-suspended sanctions on oil exports from Iran due to its nuclear pursuits demonstrate the nexus between international politics and energy needs. Amidst these developments, a revolution in unconventional oil and gas is occurring in North America, the geopolitical implications of which are being felt by countries from Europe to Japan.

The Geopolitics of Energy will examine this intersection between international securities, politics, and energy issues. The course takes energy security as its launching point, exploring not only how countries shape their grand strategies to meet their energy needs, but also how such actions have implications for other countries and the international system. It looks at new technologies and innovations – such as those making the extraction of shale gas and tight oil economical – and how they are changing patterns of trade and could shape new alliances. Finally, while acknowledging that oil and gas will be dominant for the next 20-40 years, the

course considers the consequences of a successful shift away from petroleum based economies to anticipate how a new energy order will alter global politics in fundamental ways.

Course Content

Unit I: 7.5 lectures hours

Geopolitics of energy, Energy Security, The Global Energy Landscape: Demand, Supply, and Price, The Unconventional Revolution in Oil and Gas in North America, The Potential for the Unconventional Revolution to Go Global

Unit II: 7 lecture hours

Resource Nationalism: Evaluating New Prospects in Mexico and Iran; Mexico Energy Policy, Unconventional revolution and its impact, The Resource Curse

Unit III: 7.5 lecture hours

Consumer Power: Can Consumers Use Energy as a Foreign Policy Tool?, Cartelization: OPEC, Cartelization: Gas Exporting Countries Forum, The Implications of Iraq's Energy for its Political Future, Russia and its Prospects in the New Energy Environment

Unit IV: 7 lecture hours

Resource Mercantilism; China's Quest for African Energy, The United States in the Gulf, Geopolitics in the Arctic

Unit V: 7 lecture hours

Geopolitical Consequences of a Shift to Nuclear Power, Geopolitics and Climate Change: The U.S.-China Climate Agreement

Reference Books

- Ebinger, C., and Avasarala, G., (2013), The Geopolitics of Natural Gas, Harvard University's Belfer Center and Rice University's Baker Institute Center for Energy Studies
- 2017, World Oil Transit Chokepoints, US Energy Information Administration, USA
- Dickel, R., Hassanzadeh, E., Henderson, J., Honoré, A., El-Katiri, L., Pirani, S., Rogers, H., Stern, J., & Yafimava, H., (2014, October), Reducing European Dependence on Russian Gas: distinguishing natural gas security from geopolitics, The Oxford Institute for Energy Studies.
- Herberg, E. M., (2011, September), Asia's Rising Energy and Resource Nationalism, The National Bureau of Asian Research
- Loris, N. D., Coffey, L., Bromund, R. T., Phillips, J., Cheng, D., Quintana, A., Curtis, L., and Wilson, T. W., (2015, October 9), The Economic and Geopolitical Benefits of Free Trade in Energy Resources, The Heritage Foundation
- Cherp, A., (2012, September), Energy and Security
- (2014, July 2), Energy Geopolitics: Challenges and Opportunities, International Security Advisory Board

- Christina, Y. L., (2007), The Rise of Africa in the International Geopolitical Landscape: a U.S. Energy Perspective, ISPSW
- Casertano, S., (2013, September), Global Energy Politics and Supply Security, Brandenburg Institute for SOCIETY and SECURITY
- Sullivan, M., Overland, I., and Sandalow, D., (2017, June), The Geopolitics of Renewable Energy, Center on Global Energy Policy, Columbia University
- Dirmoser, D., (2007, August), Energy Security, Friedrich-Ebert-Stiftung

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	CE			ESE
	Group presentations/ Project	Written assignment	Case study & Class Participation	
Weightage (%)	50			50

Program Outcomes (POs)

PO 1	Students will be able to develop and evaluate alternate managerial choices and identify optimal solutions
PO 2	Students will demonstrate effective application capabilities of their theoretical understanding of economics theories – Microeconomics, Macroeconomics and trade theories to the renewable and non-renewable energy sectors.
PO 3	Students will exhibit effective decision-making skills, employing analytical and critical thinking ability
PO 4	Students will demonstrate effective oral and written communication skills in presenting frameworks, models and regulations of the energy sector
PO 5	Students will be able to work effectively in teams and demonstrate team-working capabilities.
PO 6	Students will exhibit leadership and networking skills.
PO 7	Students will demonstrate sensitivity towards ethical and moral issues and have ability to address them in energy economics.
PO 8	Students will demonstrate employability traits in line with the needs of changing dynamics of renewable and non-renewable energy sectors
PSO 9	Students will demonstrate strong conceptual knowledge of economic theory in the context of renewable and non-renewable energy sectors
PSO 10	Students will demonstrate effective understanding of economics as it is applicable to energy markets, energy pricing, energy trading and risk management
PSO 11	Students will demonstrate analytical skills in designing solutions for energy efficiency
PSO 12	Students will exhibit the ability to evaluate working of energy policies
PSO 13	Students will have domestic and global perspective towards legal frameworks and environmental regulations with respect to energy sectors
PSO 14	Students will exhibit deployable skills pertinent to the renewable and non-renewable energy sectors

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs			
	Course Outcomes (COs)	Mapped POs	Mapped PSOs
CO1	Demonstrate a clear understanding of the concepts related to global energy trade	1,2,3,4	9,11,12,14
CO2	Analyze issues in global oil and gas markets and take a strategic view of the geopolitical issues impacting the industry	1,2,3,6,7	9,10,11,12,14
CO3	Develop and evaluate the companies/government decisions and align it with the strategic business objectives of a firm/nation.	3,4,5,8	9,10, 12,13,14
CO4	Demonstrate a clear understanding of business and tactical issues impacting global trade	1,5,6,7,8	11,12,13,14

Course Outcomes	CO 1	CO 2	CO 3	CO4
PO 1	3	2	3	3
PO 2	2	3	2	2
PO 3	2	2	2	2
PO 4	3	3	3	3
PO 5	2	2	2	2
PO 6	2	2	2	2
PO 7	2	3	2	3
PO 8	3	3	3	3
PSO 9	3	3	3	3
PSO 10	3	3	3	3
PSO 11	3	3	3	3
PSO 12	3	3	3	1
PSO 13	2	2	3	2
PSO 14	3	3	3	3

OGET 8009	Course Code
The Geopolitics of Energy	Program Outcomes
3	PO 1
3	PO 2
2	PO 3
3	PO 4
2	PO 5
2	PO 6
3	PO 7
3	PO 8
3	PSO 9
3	PSO 10
3	PSO 11
3	PSO 12
3	PSO 13
3	PSO 14

1=weakly mapped

2= moderately mapped

3=strongly mapped



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination – December, 2017

Program/course: MA (Energy Economics)

Semester – II

Subject: Geopolitics of Energy

Max. Marks: 100

Code : OGET 8009

Duration: 3 Hrs

No. of page/s: 1

Note: All sections are compulsory.

Section – A (4 X 5 = 20 Marks)

Answer the following questions in brief:

Answer the following questions in brief:

1. What is the “Geopolitics of Energy”? CO1
2. Does ensuring the energy security is an outcome of energy geopolitics? CO2
3. Write short note on the factors impacting crude oil prices.CO4
4. Write short note on Resource Curse and Dutch Disease. CO2

Section – B (10x5 = 50 Marks)

All questions are compulsory:

1. Analyze the role of OPEC in current business market dynamics. CO3
2. Does world need OPEC like cartel for gas market development? CO1, CO3
3. Provide insights on US role in changing global oil market landscape.CO1, CO4
4. Analyze the role of Russia in European energy market. CO2

Section – C (2*30 = 30 Marks)

All questions are compulsory:

1. What is the importance of chokepoints in global oil and gas trade? Also, write short notes on any three chokepoints.CO2, CO3, CO4
2. Analyze the implications of Iran’s re-entry into global crude oil market post lifting of sanctions. CO3, CO4