# Iran's Potential Gas Export after the removal of Sanctions

### **Dr. Narsi Ghorban**

Commission of Environment and Energy, International Chamber of Commerce (Iran Committee)

### **IENE Conference**

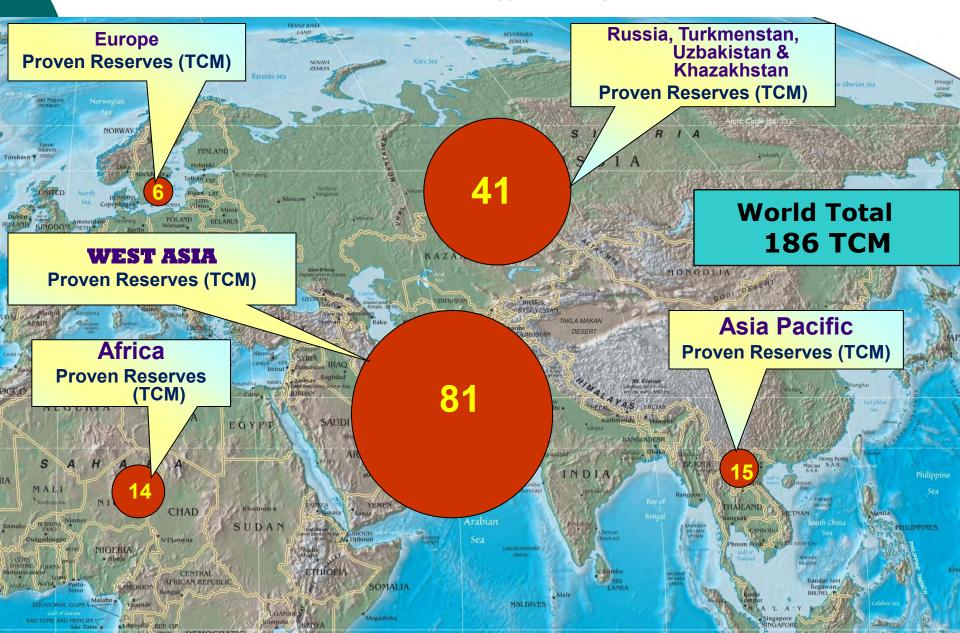
March 12<sup>th</sup> 2015 Vienna





### Natural Gas Reserves

Source: BP Statistical review of World Energy 2014 (figures in Trillion Cubic Meters)



### West Asian Region Gas Reserves end of 2013 Source: BP Review of world Energy Statistics June 2014)

0.00	s Reserves	Per cent	Per cent
(Trillion	Cubic Meters)	of the World	of West Asia
Azerbaijan	0.9	0.5	1.1
Iran	33.8	<b>18.2</b>	41.6
Iraq	3.6	1.9	4.4
Kuwait	1.8	1.0	2.2
Oman	0.9	0.5	1.1
Qatar	24.7	13.3	30.4
Saudi Arabia	8.2	4.4	10.1
Syria	0.3	0.2	0.4
UĂE	6.1	3.3	7.5
Yemen	0.5	0.3	0.6
Others	0.4	0.2	0.5
West Asia Total	81.2	43.7	
World Total	185.7		

## **West Asian Region Gas Production (2013)**

(Source: BP Review of world Energy Statistics June 2014)

0

Ga	s Production	Per cent	Per cent
Bi	llion Cubic Meters	of the World	of West Asia
Azerbaijan	16.2	0.5	2.8
Bahrain	15.8	0.5	2.7
Iran	166.6	5.0	28.5
Iraq	0.6	-	0.1
Kuwait	15.6	0.4	2.7
Oman	30.9	0.9	5.3
Qatar	158.5	4.7	27.1
Saudi Arabia	103.0	3.0	17.6
Syria	4.5	0.1	0.1
UÃE	56.0	1.7	9.6
Yemen	10.3	0.3	1.8
Others	6.5	0.2	1.1
West Asia	584.4	17.5	
World Total	3347.6		

### West Asian Region Gas consumption (2013) (Source: BP Review of world Energy Statistics June 2014)

0		onsumption Cubic meters	Per cent of the World	Per cent of West Asia
0	Azerbaijan	8.6	0.3	1.8
	Iran	162.2	4.8	33.6
0	Kuwait	17.8	0.5	3.7
	Qatar	25.9	0.8	5.3
	Saudi Arabia	103.0	3.1	21.3
	Turkey	45.6	1.4	9.4
	UAE	68.3	2.0	14.1
	Others	51.2	1.5	10.6
	West Asia Total	482.6	14.4	
	World Total	3347.6		

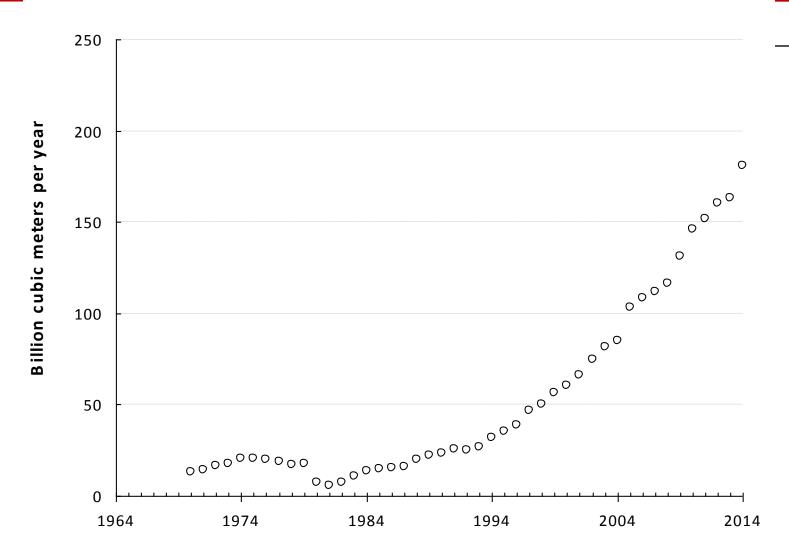
# Iran's Position in the Gas Reserves, Production and Consumption in West Asia

	Percentage West Asia	Percentage World
GAS		
Reserves	41.6	18.2
Production	28.5	5.0
Consumption	33.6	4.8

US with <u>5%</u> of the world gas reserves Produces <u>20.6%</u> of the world gas Iran with <u>18.2%</u> of the world resaves produces <u>4.9%</u> of the world gas

#### **GAS PRODUCTION IN IRAN 1970 TO 2014**

Iran Gas Production (1970-2014)



#### PRESENT INTERNATIONAL GAS AGREEMENT IN BILLION CUBIC METERS PER YEAR (SOURCE NIGC)

	Type of the Agreement	Amount
	Gas Export to Turkey	10
	Import from Turkmenistan	14
	Gas Import from Azerbaijan (Swap)	0.4
T	Gas Export to Nakhjavan (Swap)	0,35
	Gas Import from Azerbaijan	1
	Gas Export to Armenia	3
	Gas Export to Pakistan (starting from 2016)`	7
	Gas Export to Iraq (starting from 2015)	9

# VISION OF IRAN GAS INDUSTRY IN 2025

- To remain the third largest gas producer in the world with gas production of 360 billion cubic meters per year by 2025
- To Inject gas into the oil fields in order to maintain and increase oil production
- To Supply Gas to Power Stations, Gas Based industries and Petrochemicals
- To Replace domestic demand for petroleum products with gas and maintain the share of gas in Iran's energy basket above 70 percent.
- To Export Gas to the regional countries, Indian subcontinent and Europe
- This vision requires capital investment of around \$160 billion from local and international sources

# **Iran's Potential Energy Future**

- Iran can find its true place amongst the World Energy Producers & Consumers and have a Robust Economy if it can find solution to the following Five major issues;
- 1- Resolving the nuclear dispute with 5+1 to ensure that sanctions are removed.
   The current negotiations has entered its final stage and it is important for all parties.
   The outcome will change the Political and Economic developments in West Asia

## Iran's Potential Energy Future (Cont.)

- O 2- Utilize Energy more Efficiently Iran can save equivalent of 1.3 mb/d of energy if appropriate measures are used. Gas flaring alone is around 14 bcm/year which is more than the gap between gas production and consumption in SE Europe (excluding Turkey) which is 12.2 bcm/y. Energy Efficiency will be the key factor in Iran's future energy export potential
- 3- Find a solution for the removal of Energy Subsidies.

## Iran's Potential Energy Future (Cont.)

- 4- Find a right Formula for the Long-Term
  Price of Gas to enable Gas Based Industries
  to take shape
- 5- Allow investment in Upstream Oil and Gas by Private Energy Companies (Domestic and Foreign) to ensure speedy and efficient Resource Development
- Iran Petroleum Contract (IPC) is the New
  Format of Contract for future. It has removed all shortcomings of Buy- Back Contracts.















Asian Gas Network a Win-Win Scenario for all

- AGN's is an Economic and Geographical Reality as East Asia is short of gas and West Asia is Gas reach.
- Some countries need their gas in Winter and and AGN could give them that option
- AGN infrastructure is partly in existence.
- Multilateral gas deal with Europe and Indian Subcontinent is possible with the Development of Asian Gas Network.

#### To Turkey And Europe

Cooperation for Gas Export Amongst the West Asian States of the Persian Gulf and Caspian Region **Gas Suppliers** 

Azerbaijan, Iran, Qatar and Turkmenistan Gas Takers

Turkey, Europe, Indian Subcontinent China, Japan, Kuwait, and UAE From Azerbaijan

#### From Turkmenistan

**To Indian** 

**Subcontinent** 

**From Qatar** 

LNG Export to East Asia & Europe

9 1988-1996 Microsoft and/or its suppliers. All rights reserved.

**Thank You** 

## West Asian Region Oil Reserves (2013)

(Source: BP Review of world Energy Statistics June 2014)

0		Oil Reserves (billion barrels)	Per cent of the World	Per cent of West Asia
				UI WEST ASIA
	Azerbaijan	7.0	0.4	0.9
	Iran	157.0	9.4	19.2
	Iraq	150.0	9.0	18.4
	Kuwait	101.5	6.1	12.4
	Oman	5,5	0.3	0.7
	Qatar	25.1	1.5	3.1
	Saudi Arabia	265.9	15.9	32.6
	Syria	2.5	0.1	0.3
	UAE	97.8	5.9	12.0
	Yemen	3.0	0.2	3.7
	Others	0.3	-	0.1
	West Asia	815.3	48.3	
	World Total	1687.9		

## West Asian Region Oil Production (2013)

(Source: BP Review of world Energy Statistics June 2014)

<b>Oil Production</b>	า	Per cent	Per cent	
(million barrels per day)		of the World	of West Asia	
Azerbaijan	0.93	1.1	3.2	
Iran	3.56	4.1	12.2	
Iraq	3.14	3.6	10.7	
Kuwait	3.13	3.6	10.7	
Oman	0.94	1.1	3.2	
Qatar	1.99	2.3	6.8	
Saudi Arabia	11.52	13.3	39.3	
Syria	0.06	0.2	0.2	
UĂE	3.65	4.2	12.5	
Yemen	0.16	0.2	0.5	
Others	0.21	0.2	0.7	
West Asia	29,29	33.9	100	
<b>World Total</b>	86.81			

## West Asian Region Oil consumption (2013)

(Source: BP Review of world Energy Statistics June 2014)

Ο

Oil consu	Imption	Per cent	Per cent	
million barrels per day		of the World	of West Asia	
Azerbaijan	0.10	0.1	1.1	
Iran	2.00	2.2	21.4	
Kuwait	0.49	0.5	5.2	
Qatar	0.28	0.2	3.0	
Saudi Arabia	3.08	3.2	33.0	
Turkey	0.71	0.8	7.6	
UAE	0.77	0.9	8.2	
Others	1.91	2.2	20.5	
West Asia	9.34	10.1	100	
World Total	91.33			