

# **GAS RESERVES, PRODUCTION AND UTILITY IN IRAQ**

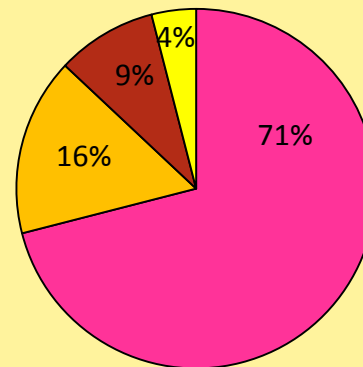
**Iraq Energy Forum 2017, Baghdad**

*Edited and presented by*

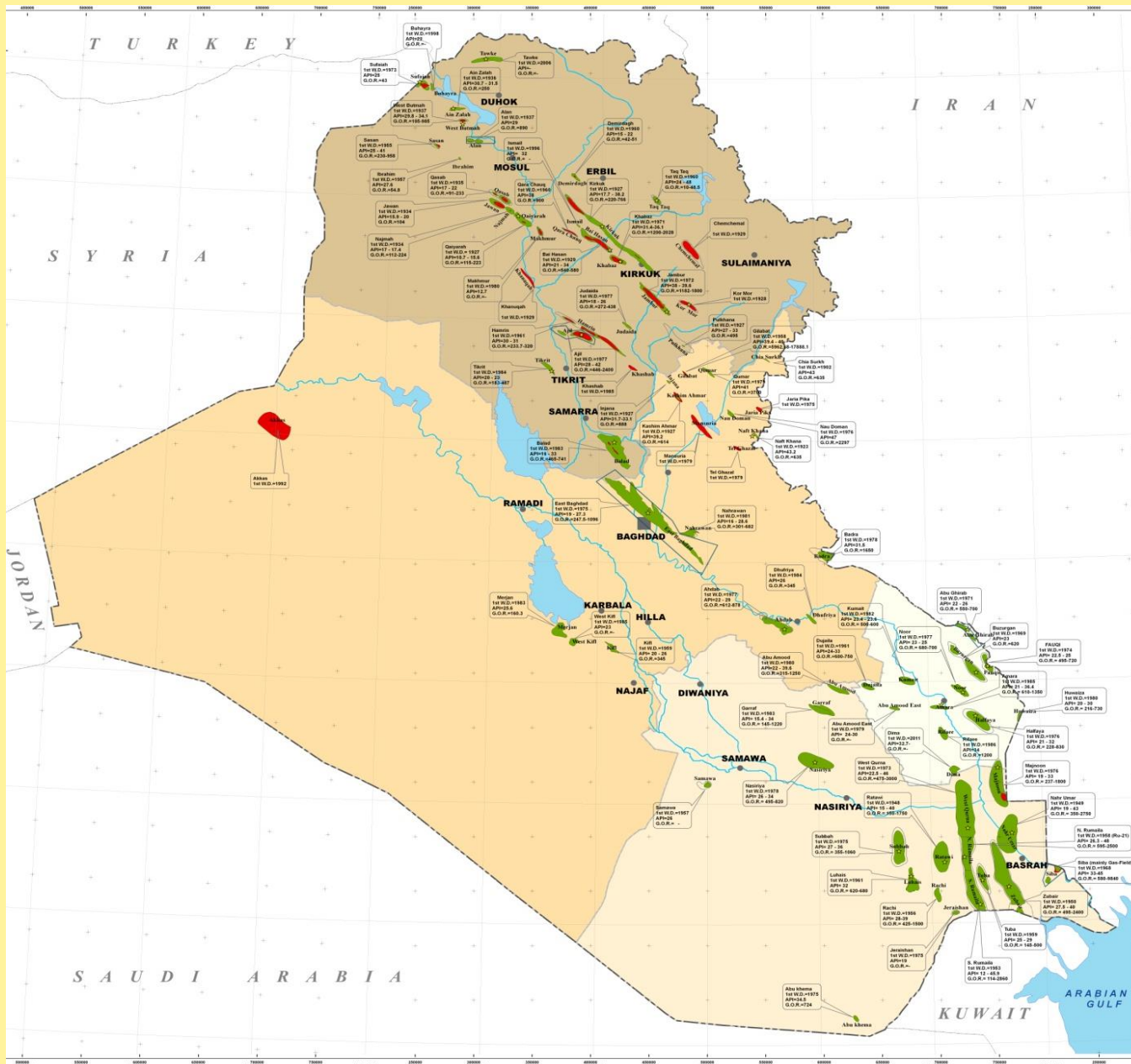
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CONSULTATIVE EXPERT IN RESERVIOR  
ENGINEERING  
AND PETROLEUM FIELDS DEVELOPMENT**

# IRAQ GAS RESERVES

- More Than 140 TSCF Proven Gas Reserves
- More Than 80% are Associated Gas
- Figures do not include KR reserves



■ South ■ North ■ Middle ■ West



TURKEY

IRAN

SYRIA

JORDAN

SAUDI ARABIA

KUWAIT

ARABIAN GULF

Baburqa  
1st W.D. = 1972  
APN#2  
G.O.R. = 43

Sana  
1st W.D. = 1970  
APN#20  
G.O.R. = 426-665

Brakhan  
1st W.D. = 1957  
APN#A  
G.O.R. = 56-8

Amara  
1st W.D. = 1974  
APN#15-25  
G.O.R. = 574

Hillah  
1st W.D. = 1974  
APN#17-22  
G.O.R. = 574

Qadisiyah  
1st W.D. = 1972  
APN#15-22  
G.O.R. = 192-228

Al-Basrah  
1st W.D. = 1977  
APN#12  
G.O.R. = 192-228

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1st W.D. = 1977  
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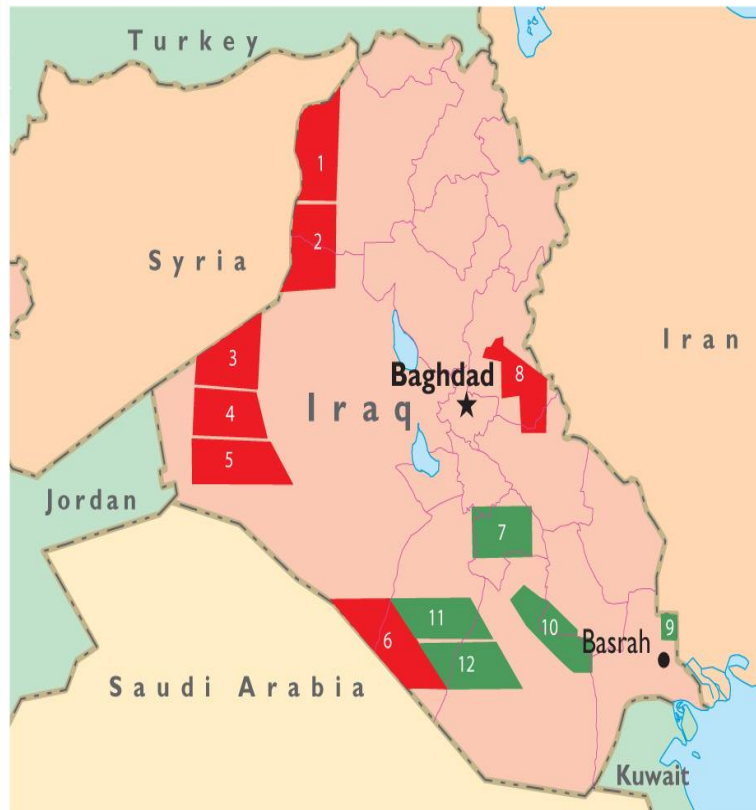
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## In Addition to 275 TCF Probable and Possible Gas Reserve

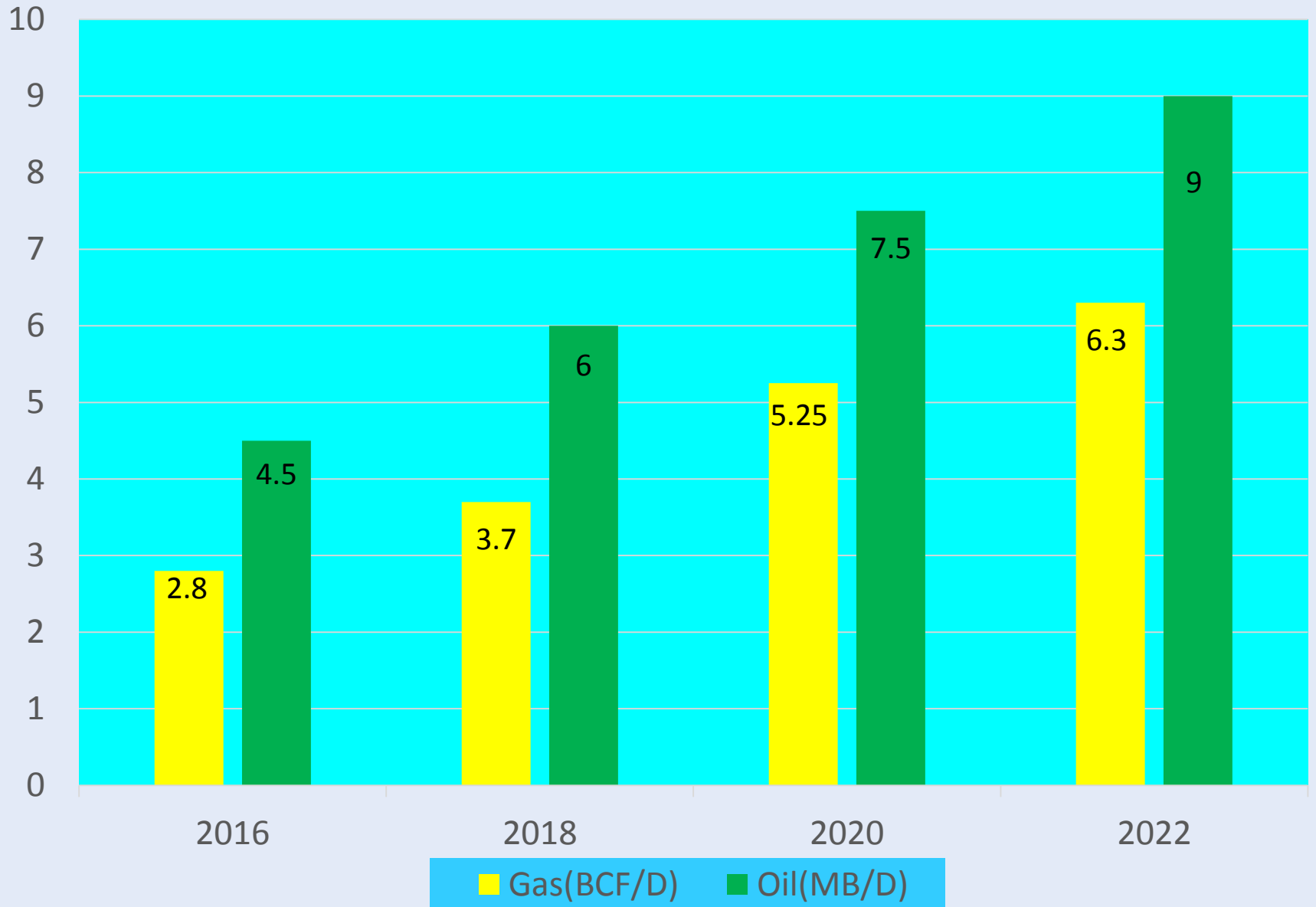
### Iraq's Exploration Round: What's on Offer



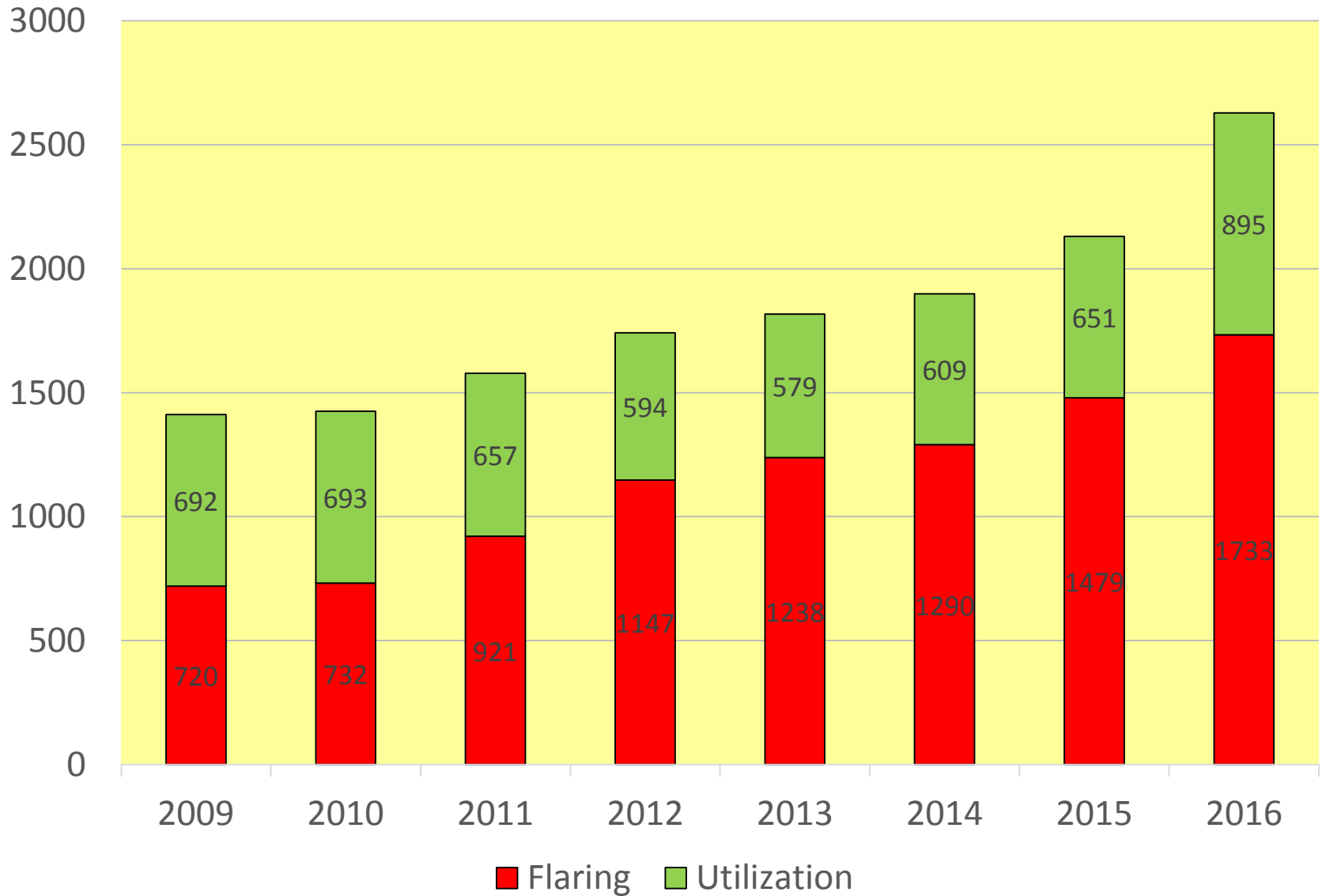
Block No.	Governorate	Area (km <sup>2</sup> )	
		Gas	Oil
1	Nineveh	7,300	—
2	Nineveh and Anbar	8,000	—
3	Anbar	7,000	—
4	Anbar	7,000	—
5	Anbar	8,000	—
6	Anbar and Najaf	9,000	—
7	Qadisiyah, Babil, Najaf, Muthanna, Wasit	—	6,000
8	Diyala and Wasit	6,000	—
9	Basrah	—	900
10	Muthanna and Thi Qar	—	5,500
11	Najaf and Muthanna	—	8,000
12	Najaf and Muthanna	—	8,000
<b>Total</b>		<b>52,300</b>	<b>28,400</b>
Percentage of area (km <sup>2</sup> )		65%	35%
<b>Grand Total</b>		<b>80,700</b>	

Source: Ministry of Oil

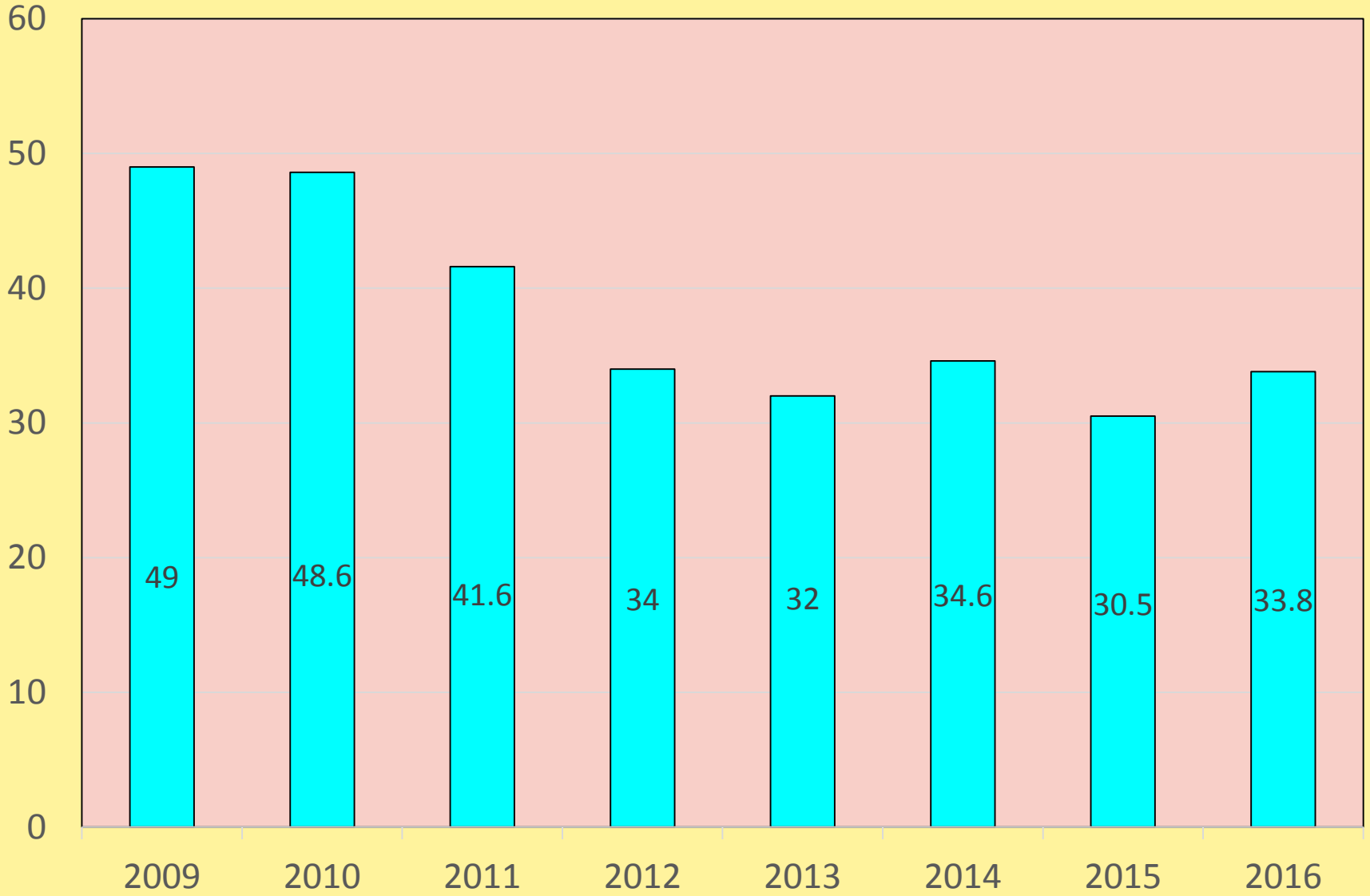
# Expected oil and Gas Production by Year 2022



# Gas Production, Utilization and Flaring History MMSCF/D



# %Gas Utilization

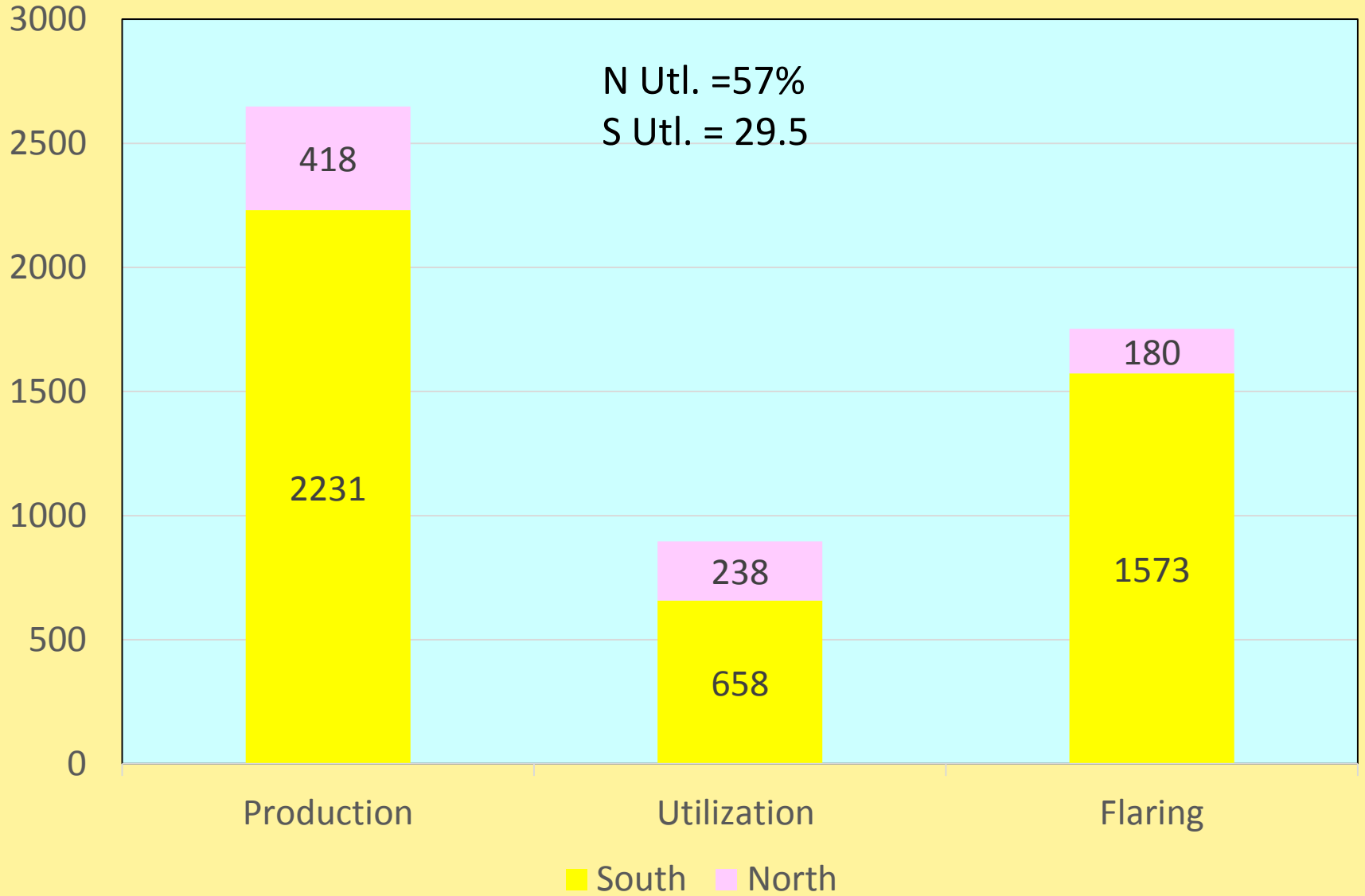


2016 GAS PRODUCTION, UTILIZATION AND FLARING MMSCFD

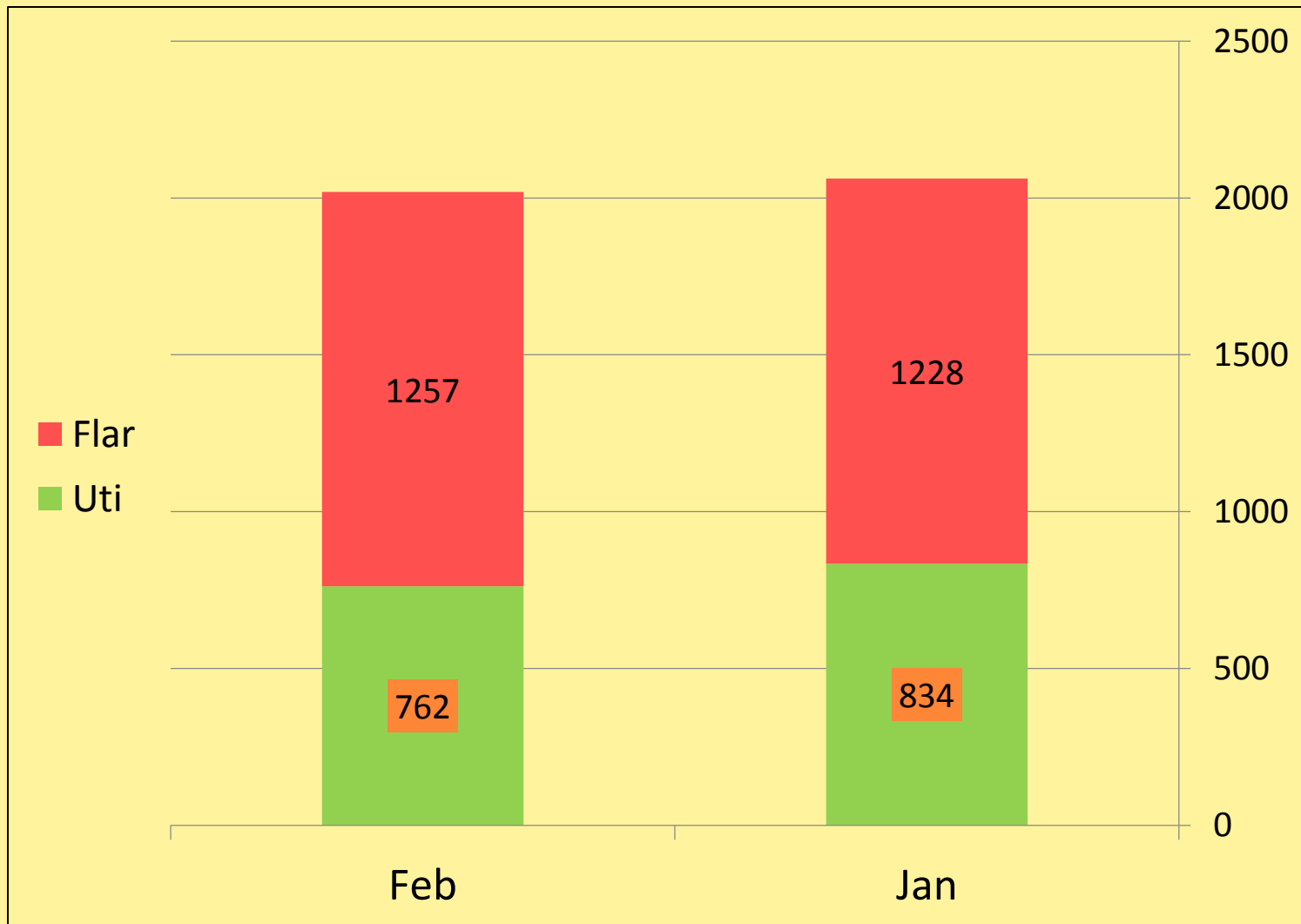
	Operation	North	South	Total
1	Production	418	2231	2649
2	Utilization	238	658	896
3	Flaring	180	1573	1753



# 2016 Gas Production, Utilization and Flaring MMSCF/D



# Current Gas Production, Utilization and Flaring Midland and South



# Gas Flaring Reduction Efforts

## 1-Basrah Gas Company

On 2<sup>nd</sup> of May/2013, **South Gas Company, Shell and Mitsubishi** officially announced the commencement of operations of **Basrah Gas Company**, which will be the largest gas project in Iraq's history and the world's largest flares reduction project.

BGC is a 25-year incorporated Joint Venture between Iraq's South Gas Company holding 51% of its shares, Shell 44% and Mitsubishi Corporation 5%. The Joint Venture captures associated gas that is currently being flared from three oil fields in Basrah/south of Iraq " Rumaila, WQ/1 and Zubair".

At the beginning of 2013 Basrah was producing only around 1 BSCF/D of associated gas and some 0.7 BSCF/D were being flared, which is wasting millions of dollars of the country's resources every day. This project will help Iraq to fulfill its goal of developing its gas infrastructure to eliminate flaring and provide fuel to the Iraqi industry, power generation as well as income to the state.

Under the agreement signed with the Iraqi Ministry of Oil, BGC will sell processed gas to state-owned South Gas Company. BGC will be dedicated to:

- The rehabilitation and upgrade of the current facilities to increase their capacity from (0.35) BSCF/D and put them back to work safely at their original design capacity (1 BSCF/D) in 2017

- Building new assets which will increase the processing capacity to 1.5 BSCF/D in 2019, and 2 BSCF/D in 2022 including gas sweetening facilities.

2- In 2017 free gas production from LR3 gas fields will reach its plateau production target which is (820) MMSCF/D, so gas processing facilities rate equals this rate will be added and implemented.

### 3- Misan Fields Gas Processing Facilities:

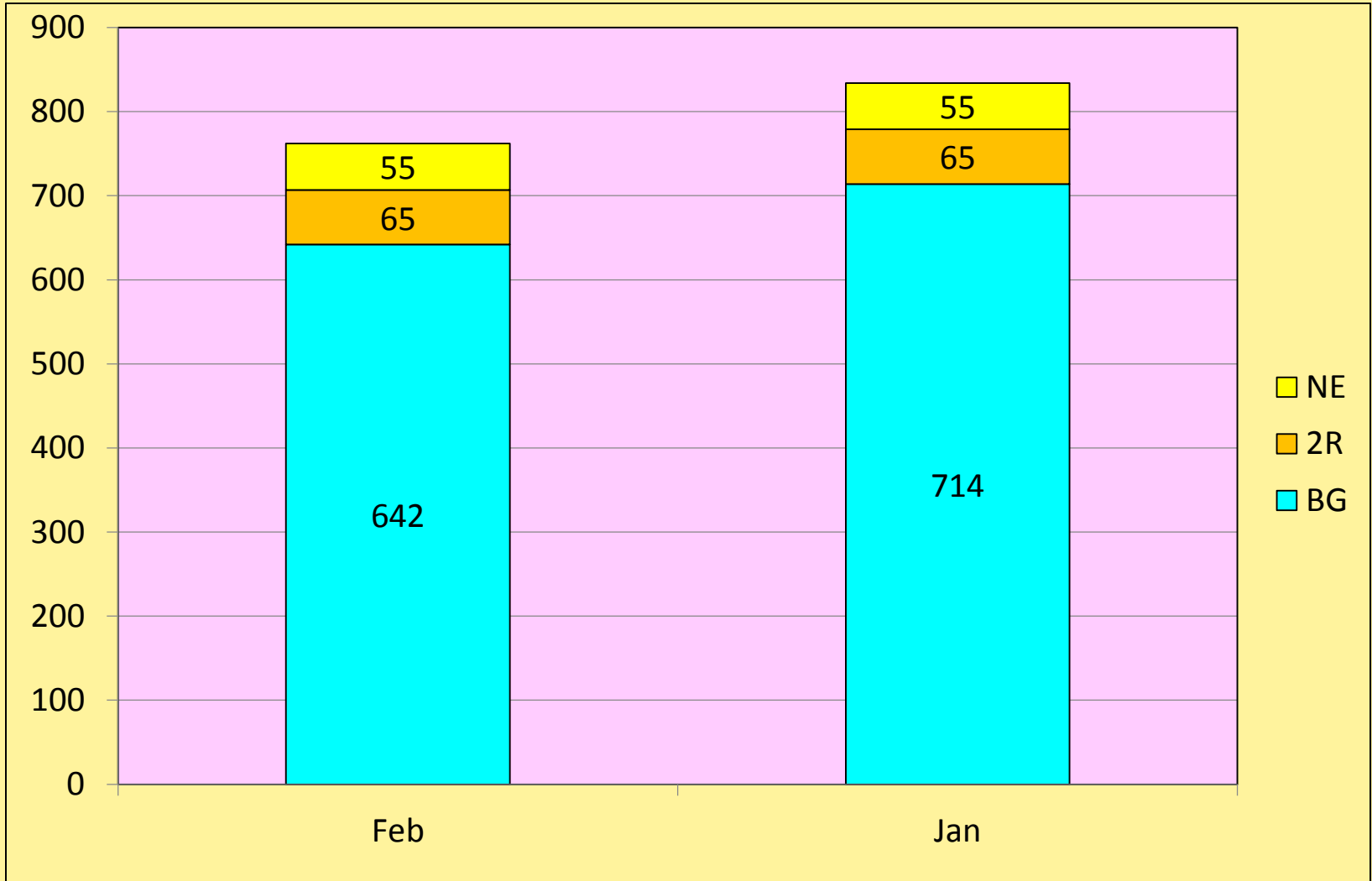
In 2019, gas processing facilities construction (in Misan/Halfaya field) will be completed and operated with a capacity of 600 MMscf of gas(300 MMscf from Halfaya field + 300 MMscf from Misan other fields).

### 4- LR2 Fields Gas Processing Facilities:

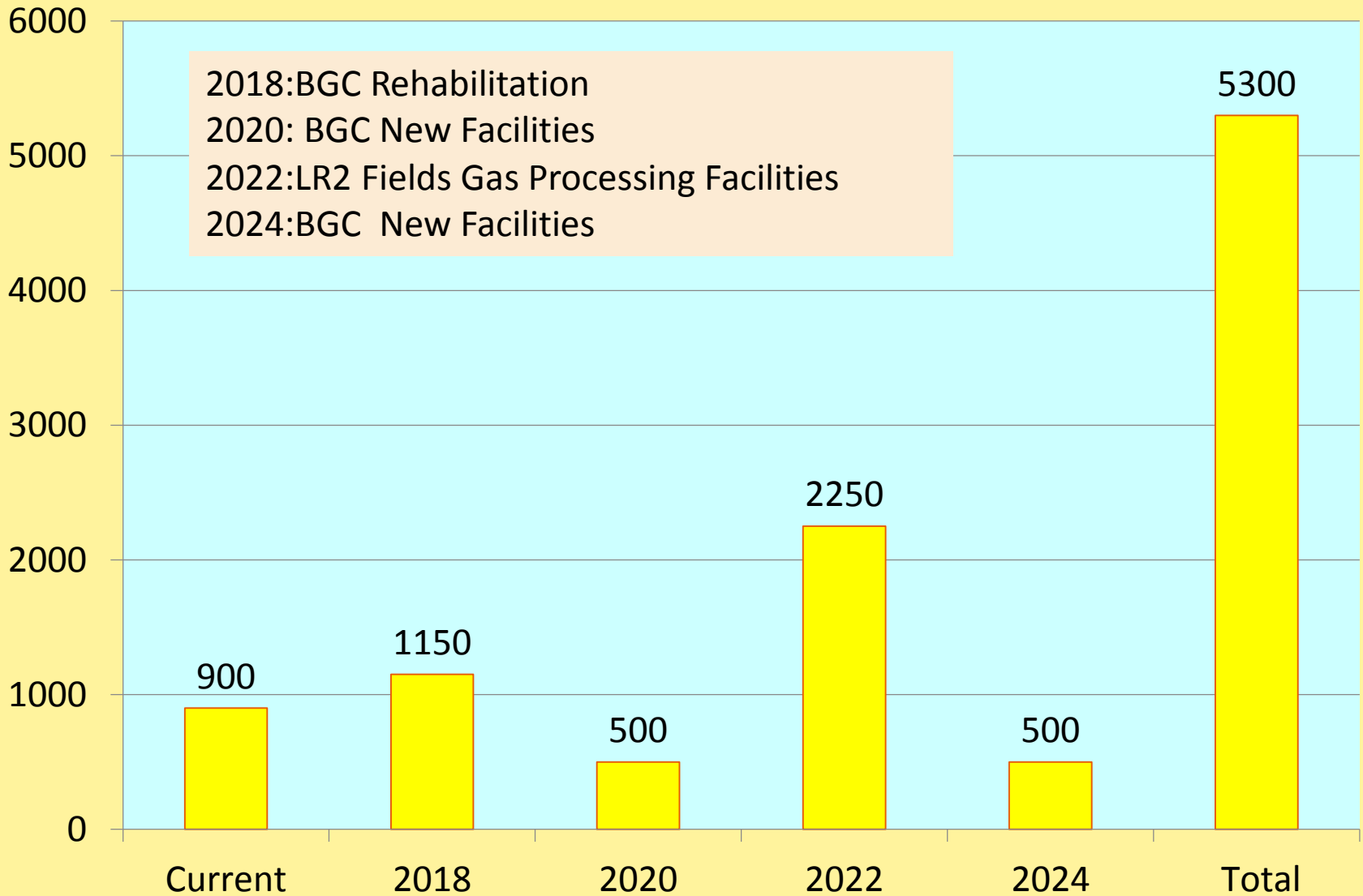
In 2020, gas processing facilities construction (in each field of LR2 fields which is WQ2,Majnoon,Garraf and Badra) will be completed and operated with total capacity of 1650 MMscf of gas as following:

1	Majnoon	650
2	WQ/2	725
3	Gharraf	180
4	Badra	85
	Total	1650

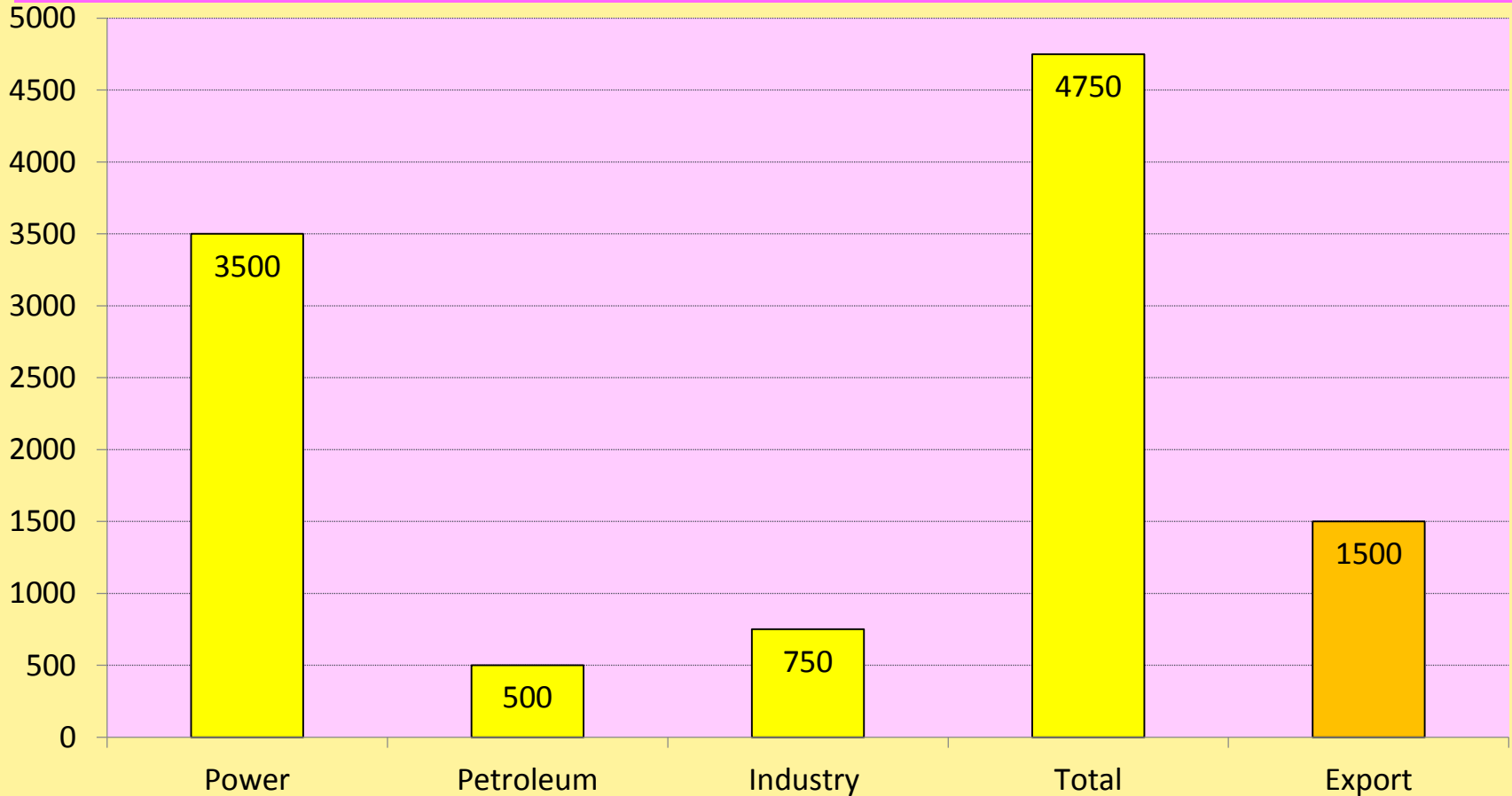
# Current Gas Processing Capacity



## EXPECTED INCREASE IN GAS PROCESSING CAPACITY MMSCF/D



## EXPECTED GAS EXPORT AND DOMESTIC GAS DEMAND MMSCFD 2022



Exported gas could be doubled or tripled through:

- 1- Developing and producing gas fields which belongs to NOC & MdOC.
- 2- Exploration to convert some of probable reserves to proven reserves.
- 3- Integrating gas industry to include KR gas in national gas master plan.



# Condensate and LPG Export

During 2016 condensate and LPG amounts have been exported as follows:

Condensate Export : 268061 M<sup>3</sup>

LPG Export : 30341 Ton

THANK  
YOU