8<sup>TH</sup> ST PETERSBURG INTERNATIONAL GAS FORUM - 10/5/2018

### ASIA-PACIFIC: A KEY GROWTH DRIVER OF THE WORLD LNG MARKET

Jean-Marie Dauger Co-Chair, World Energy Council and President, GIIGNL



# 01

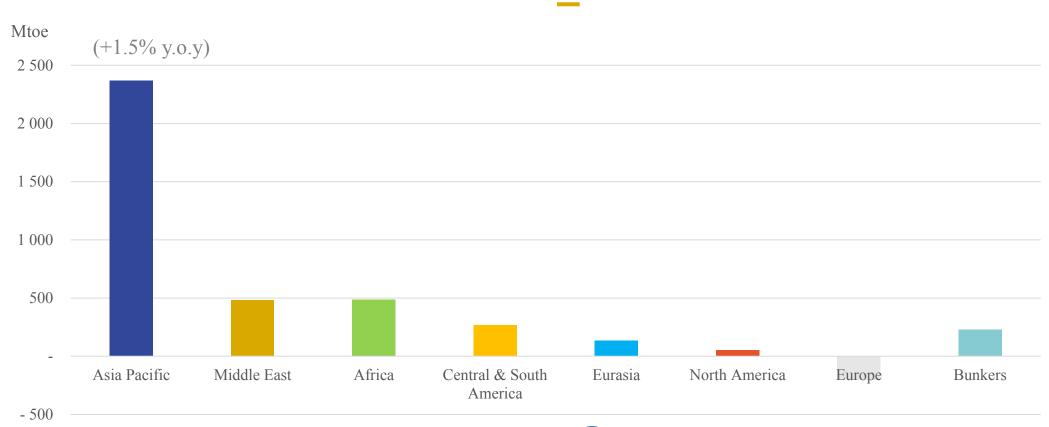
Natural Gas in the future energy landscape



## AS GLOBAL POPULATION RISES TO 9BN BY 2040, THE WORLD NEEDS MORE AND CLEANER ENERGY

Developing economies in Asia-Pacific represent around 2/3 of energy demand growth 2016-2040

#### Additional Energy Demand 2016-2040 (Mtoe)

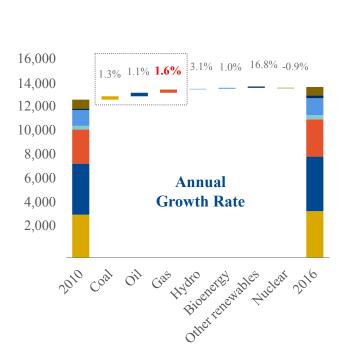




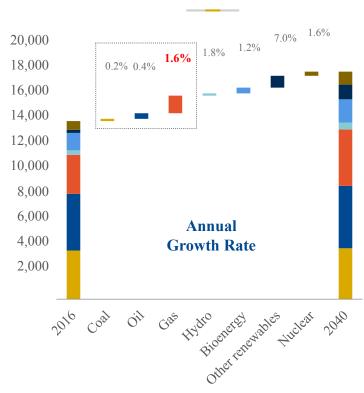
#### NATURAL GAS IS THE FASTEST GROWING FUEL

Gas will outpace growth of other hydrocarbons and has a growing share of Primary Energy in 2040

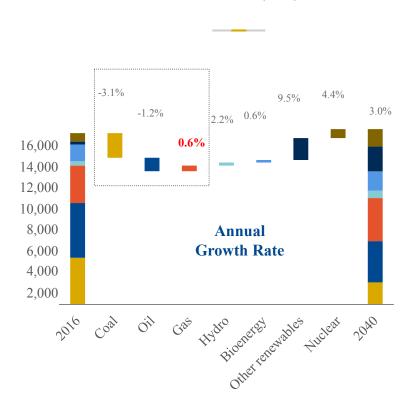




#### New Policies Scenario 2016-2040 (IEA)



### Sustainable Development Scenario 2016-2040 (IEA)





Source: IEA WEO 2017

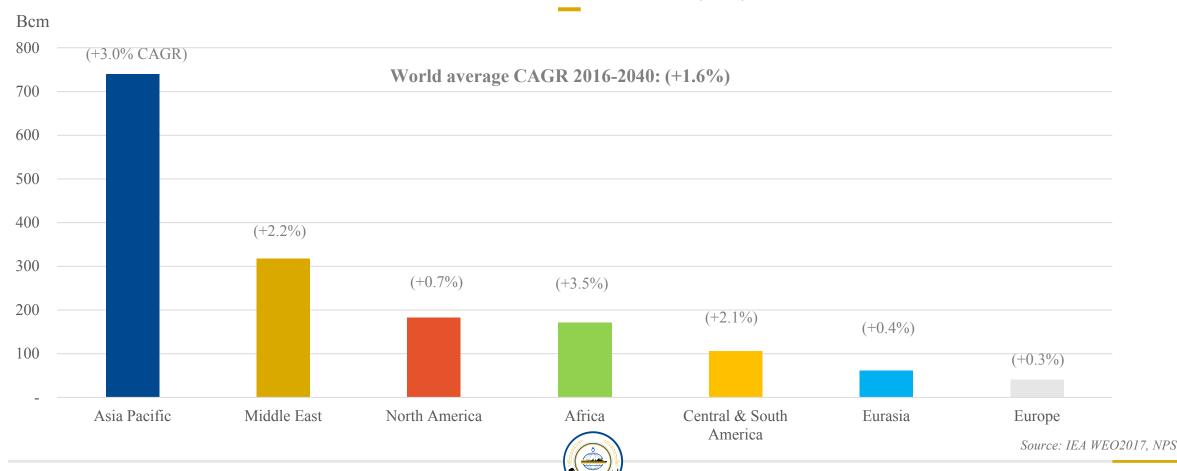
# 02 Natural Gas Demand in Asia



#### A MASSIVE SHIFT OF GAS DEMAND TO ASIA

Asia: From 20% of gas demand today to 28% by 2040

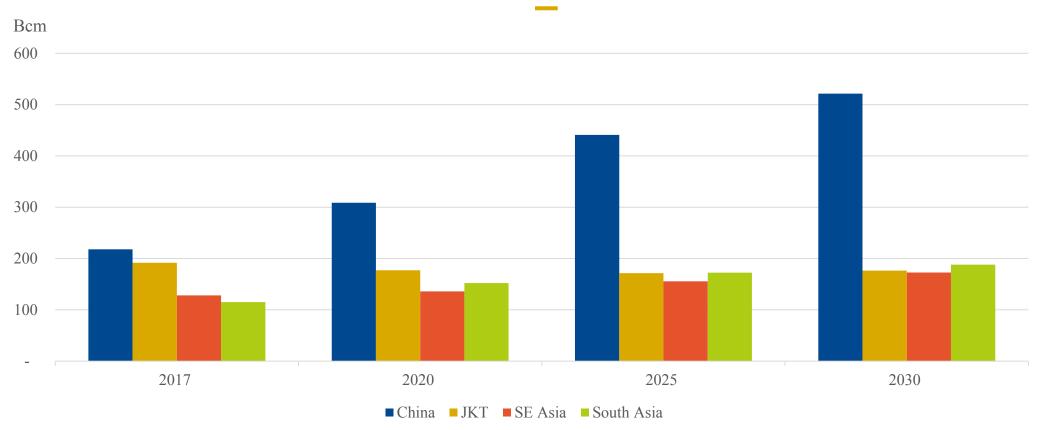




#### GAS DEMAND IN ASIAN COUNTRIES

Growth will be concentrated in developing countries but potential in existing gas markets remains high





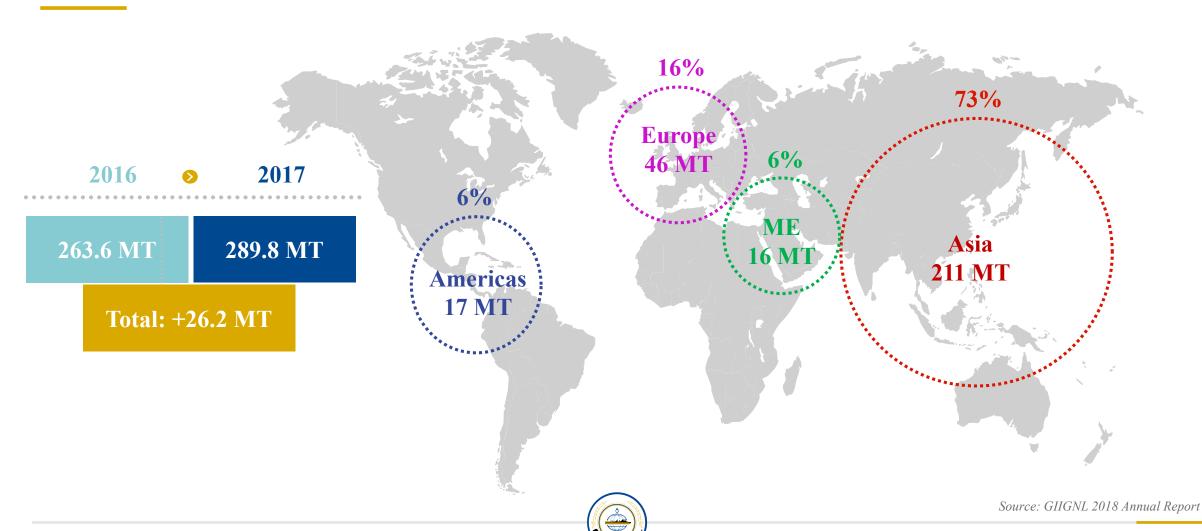


# 03 Implications for the LNG market



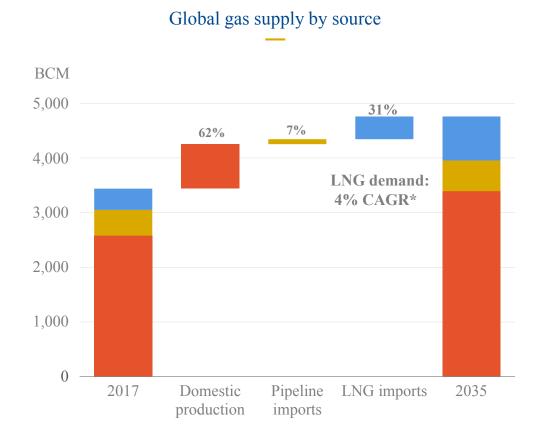
#### 2017 LNG IMPORTS

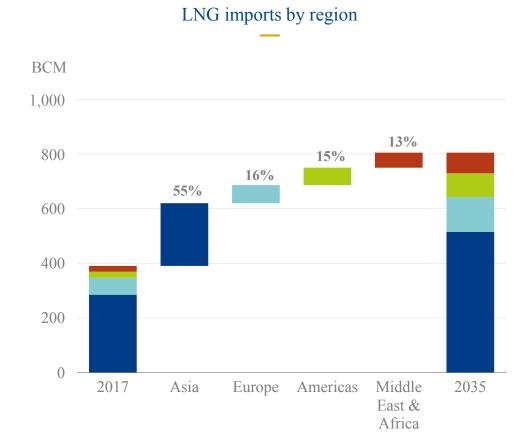
North East Asian importers accounted for almost 2/3 of global LNG demand in 2017



#### LNG IS THE FASTEST GROWING GAS SUPPLY SOURCE

Energy growth 1%, Gas growth 2%, Asia gas growth 3%, LNG growth 4%



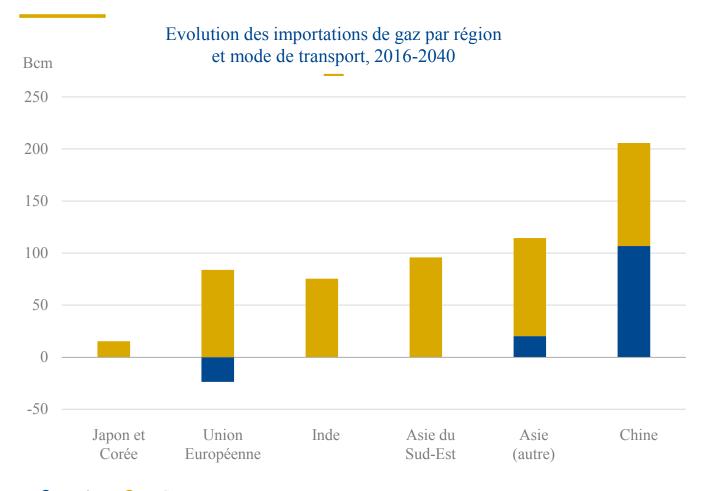


\*CAGR - Compound Annual Growth Rate

Source: Shell LNG Outlook 2018



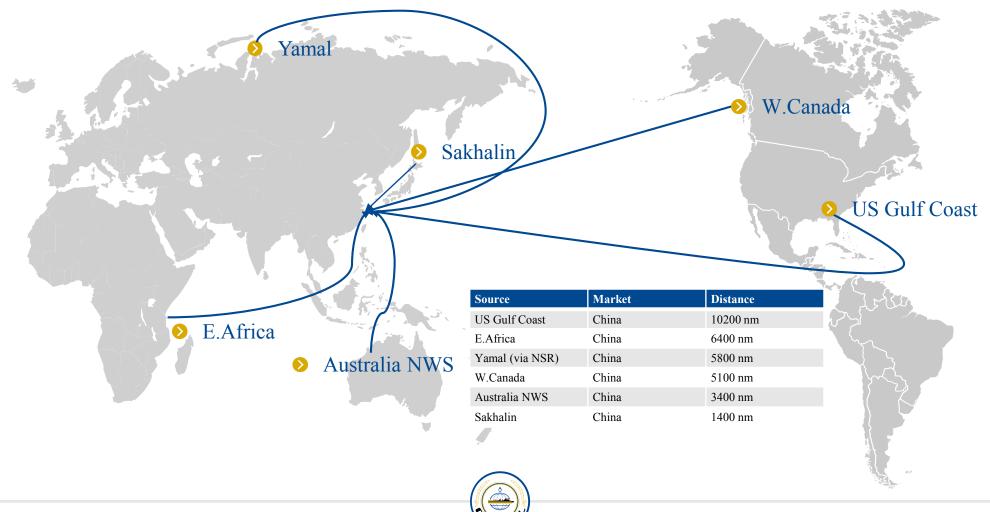
#### ASIAN ENERGY DEMAND GROWTH WILL BE FUELED BY LNG



- Outside China, new pipeline trade routes find it hard to advance in a market with readily and flexibly available LNG
- LNG will increase its share from 39% of global long-distance trade to 60% by 2040 (IEA)
- In 2030, LNG will represent 38% of Asia's gas demand vs 32% in 2017



#### KEY NEW LNG SUPPLIES FOR ASIA



Source: Kpler

#### LNG: THE KEY TO ENERGY SECURITY ASIA

Flexibility and competitiveness against alternative fuels will be key

OPPO	ORTUNITIES		UNCERTAINTIES
Declining domestic pri	oduction	•	Gas supply and demand uncertainty
<ul> <li>Cleaner alternative to up for renewables</li> </ul>	coal-fired generation and back-	٠	« Asian premium » / Risk of coal+renewables paradigm
<ul> <li>Flexible / Readily available</li> <li>pipelines</li> </ul>	ilable alternative to laying	•	Limited TPA to pipelines and LNG terminals despite the liberalisation process at work in several Asian countries
Diversification of gas	supply sources via LNG	•	Destination clauses in certain Asian contracts
<ul> <li>Displacing more pollutransport</li> </ul>	ting fuels in industry and	•	Absence of a liquid and transparent pricing reference point



# 04 Conclusions



#### CONCLUSIONS

- Asia-Pacific will remain a significant driver for the demand of natural gas and LNG in the long-term
- China currently in the limelight but LNG demand growth is also about existing markets and South and SE Asia
- Flexible and competitive LNG supply projects will be required
- Russia could play a role in supplying natural gas and LNG to Asia



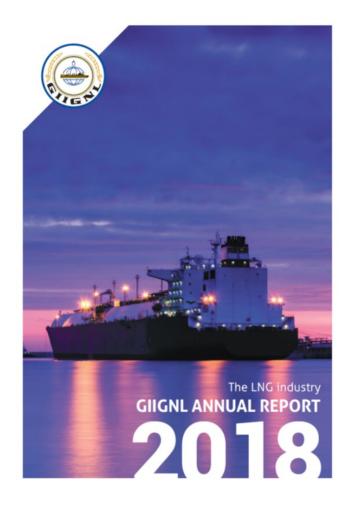


#### **GIIGNL 2018 ANNUAL REPORT**

*Unique insight on the state of the LNG industry* 

#### Downloadable free of charge from www.giignl.org

- Key Figures
- Contracts
- Shipping
- Liquefaction / Regasification
- LNG Exports and Imports / Re-exports
- Spot & Short-Term volumes
- Retail LNG









#### **GIIGNL MEMBERSHIP**

78 Members in 25 countries – LNG Importers and Terminal Owners/Operators



#### PROMOTING COOPERATION BETWEEN LNG IMPORTERS

Improving efficiency, safety and sustainability of LNG import activities

Unrivalled networking opportunities

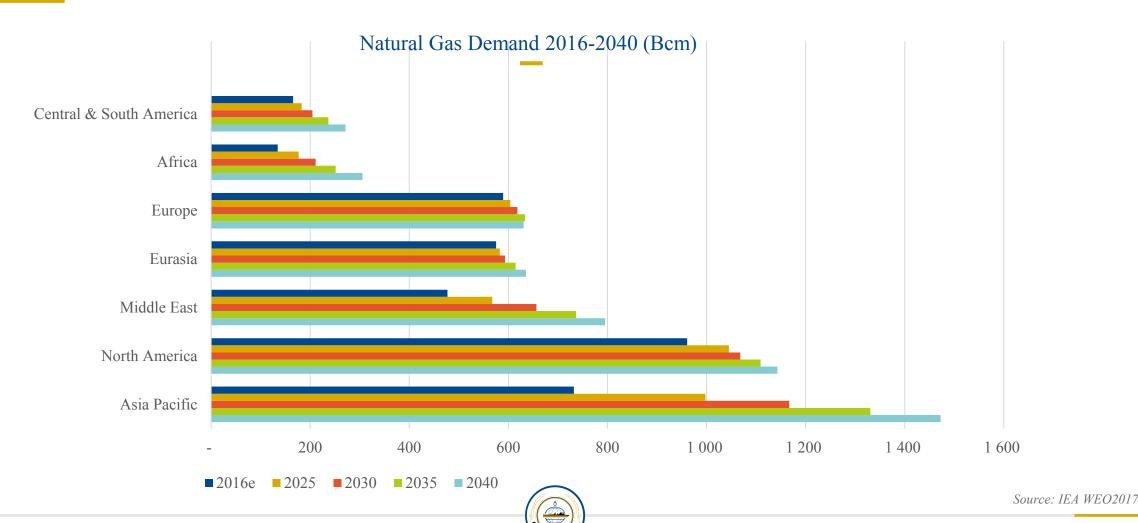
- Platform for exchange of information and best practices
- Voice for the midstream and downstream side of the LNG industry





# BY 2040, ASIAN GAS DEMAND WILL ACCOUNT FOR 28% OF GLOBAL GAS DEMAND VS 20% TODAY

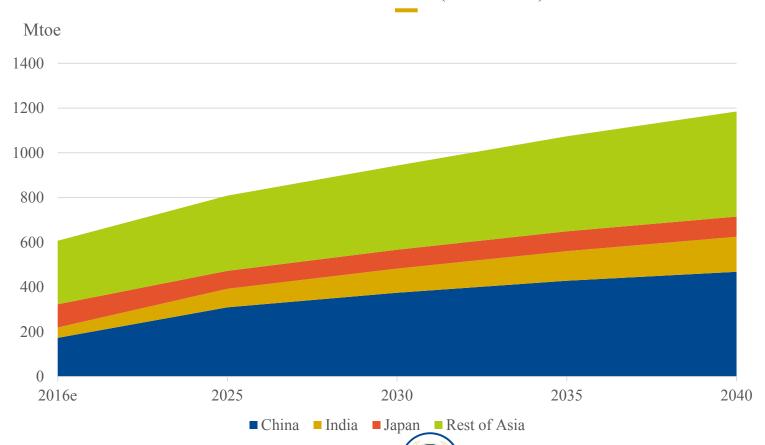
China driving growth in the near term, South and South East Asia driving long-term growth



#### GAS GROWTH IN ASIAN DEVELOPING COUNTRIES

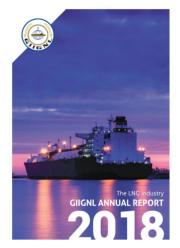
China driving growth in the near term, South and South East Asia driving long-term growth





#### 2017 KEY FIGURES

- + 9.9 % growth (highest rate since 2010)
- 40 importing countries − 1 new importer: Malta
- 19 exporting countries
- **850** MTPA of regasification capacity
- **365** MTPA of liquefaction capacity
- 4 724 cargoes delivered
- 1 FID (Coral FLNG Mozambique)





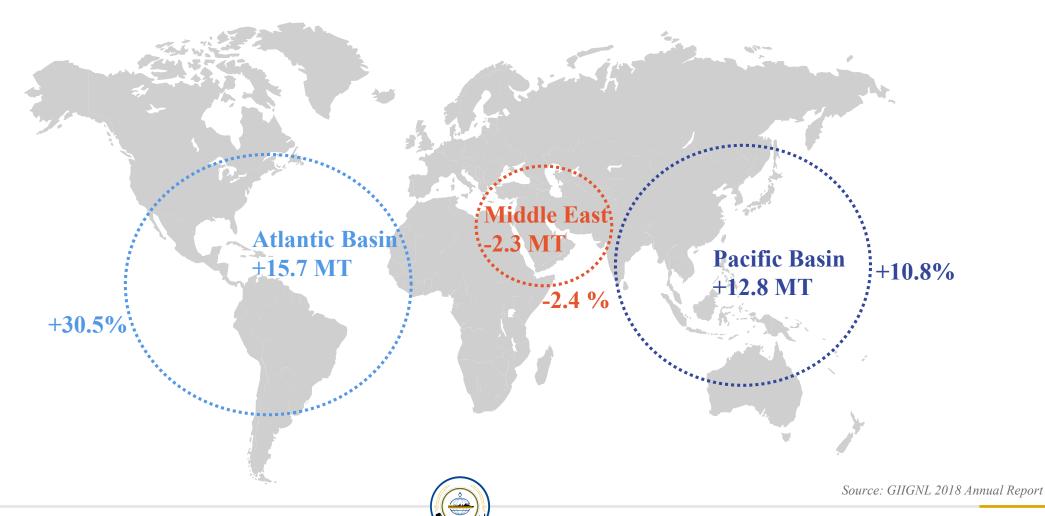
**Total:** +26.2 MT



Source: GIIGNL 2018 Annual Report

#### 2017 LNG SUPPLY

LNG supplies from the Atlantic Basin on the rise



#### 2017 IMPORTS VS 2016

China and South Korea accounted for 15.2 MTPA of additional LNG imports

