

# The Role of Natural Gas in Helping Europe to Achieve Its Energy Security and Meet Its Climate Change Goals

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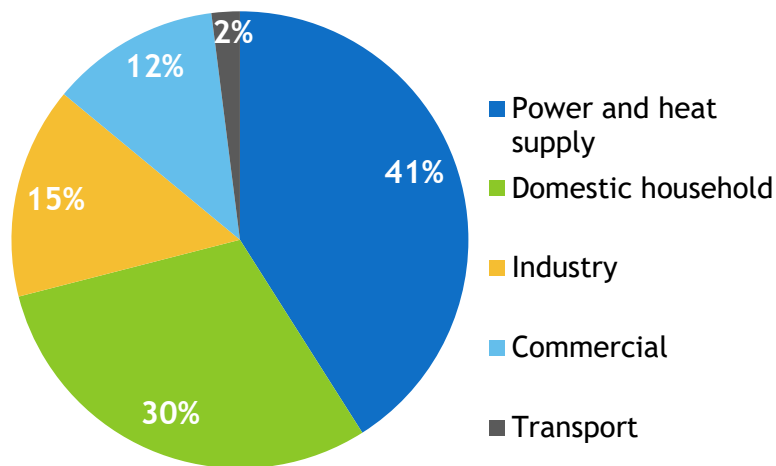
Deputy Chairman of the Gazprom Management Committee,  
Director General of Gazprom Export

Verona, October 24, 2019

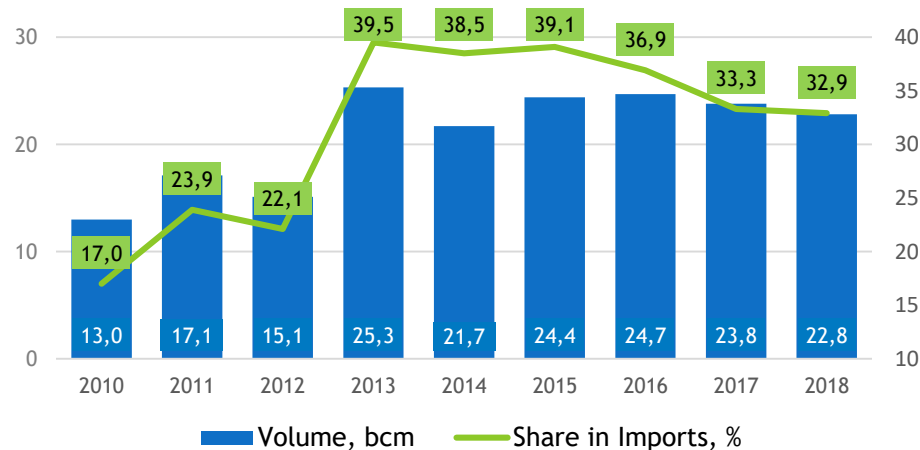
- Gas - #1 in Italy's energy mix with 37.5%
- Power and heat generation - #1 sector in gas consumption

- Italy - 2<sup>nd</sup> largest buyer of Russian gas
- Gazprom is the leading supplier to Italian gas market

## Gas Industry in Italy



## Gazprom Deliveries to Italy



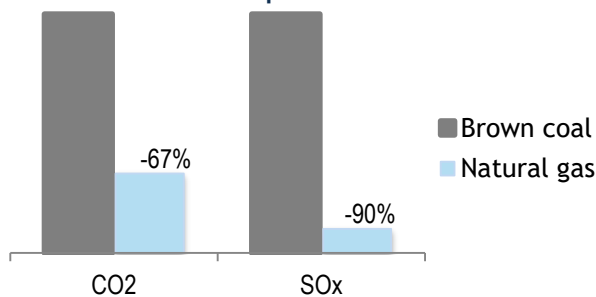
Source: Gazprom Export, IHS, Eurostat

## Natural gas reduces industry's greenhouse effect and toxic emissions

### Power generation

Power generation is the main producer of greenhouse gases

Emissions of brown coal and natural gas power plants

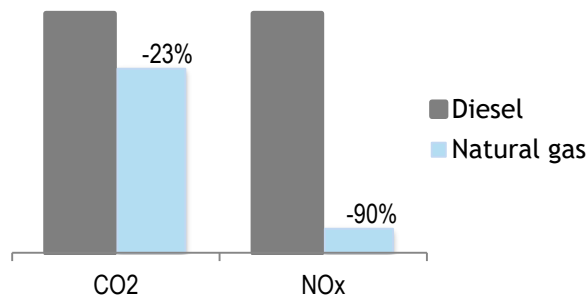


Sources: Zukunft Erdgas, OECD, Greenpeace, Enabling Clean Marine Transport, European Environment Agency

### Transport

About 30% of CO<sub>2</sub> emissions in the EU come from transport sector

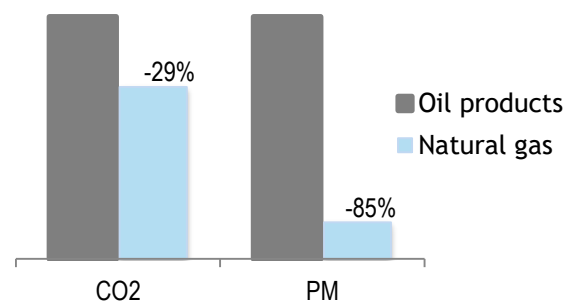
Emissions of diesel and natural gas engines



### Heating

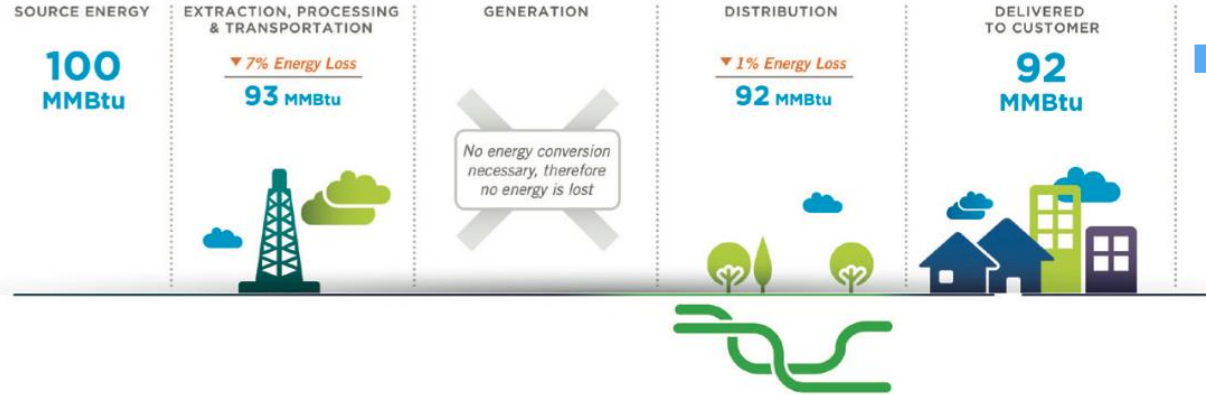
Oil-based heating equipment produces a substantial part of CO<sub>2</sub> emissions, as well as particulate matter (PM)

Emissions of oil and gas boilers

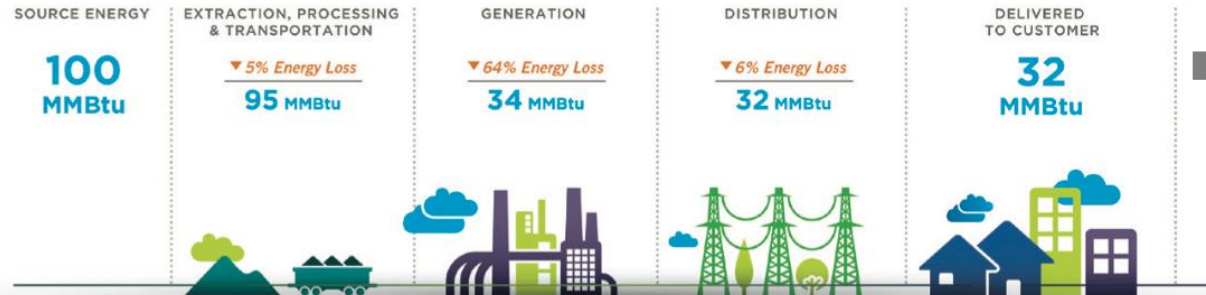


# Natural Gas has Less Energy Loss

**Natural gas**  
through process chain to  
a consumer (household)



**Electric power**  
through process chain to  
a consumer (household)



Source: American Gas Association

Thank you for your attention!