

# Integrating Russia's Process Industry

Round Table on "*Distributed generation, finding a balance of interests*"

20 November 2014, Lorenzo Castrogiovanni



# Air Liquide : largest producer of industrial gases...



**> 400**

**large Air  
Separation  
Units** producing

**O<sub>2</sub>, N<sub>2</sub>, Ar**



**> 60**

**large Steam  
Methane  
Reformers**  
producing

**H<sub>2</sub>, CO, CO<sub>2</sub>**

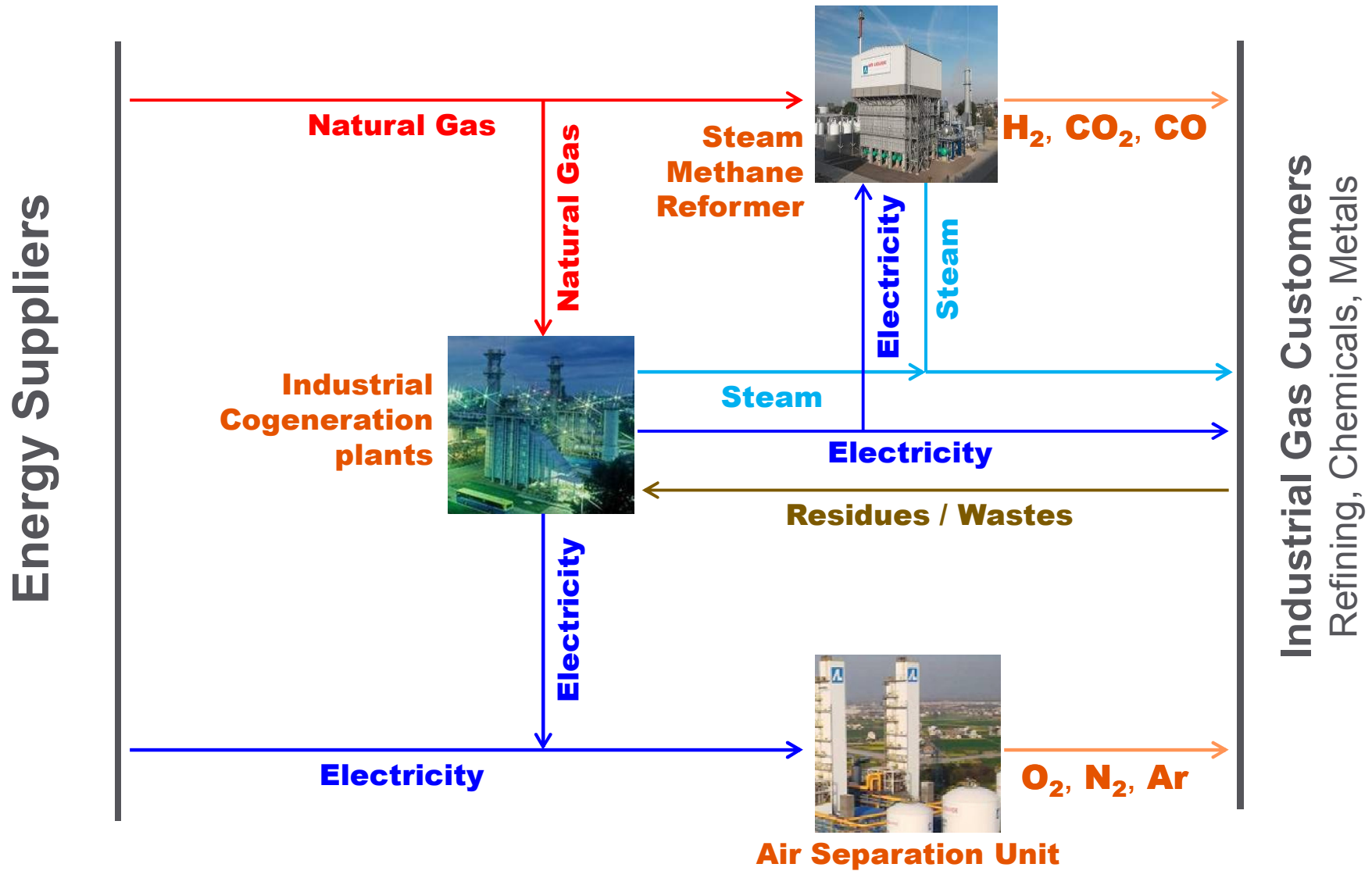


**> 15**

**industrial  
Cogeneration  
plants** producing

**Steam &  
Power**

...aiming at integrating industries' needs...



... as integration is key in the Process Industry !

## Industrial Integration = Competitiveness

Process Industry (Refining, Chemicals, Metals) =>  
Synergies => Energy Efficiency => Cost Benefits

# Exemple : Air Liquide, Bayport, USA

**Air  
Separation  
Unit**



**Steam  
Methane  
Reformer**



**Industrial  
Cogeneration  
plant**



**Industrial Gas Customers**  
Refining, Chemicals, Metals

## Russia's Process Industry to become more integrated

- Derogations to the “25 MWe barrier” for industries operating in the same industrial basin (no WEM !)
- Facilitate the sales of electricity when produced with co-products or by industrial residues or wastes
- Introduce “outsourcing” in the laws ruling the “Power Industry”
- Ease permitting for the construction of “private” direct electrical lines

# End of presentation

Ask me more...

