

# MODERN GAS TRANSMISSION SOLUTIONS



Introducing:

**The Ultimate Gas Transmission Solution**

**GasTEC V**

## "Modern Gas Transmission Solutions" are

- Technologies developed to transform classic gas transmission systems in order to enhance gas transmission performance, reducing
  - Fuel Consumption
  - Operational Costs
  - Carbon Emission
- Targeting all gas transmission system components:
  - Gas Compressor Station
  - Gas Pipeline
  - Gas Pressure Reduction Station
- Developed by extension of Machinery Engineering and Process Integration experiences in Gas Processing Facilities, LNG Plants, Power Stations and Utility Plants to gas transmission systems
- Comprised of five Gas Transmission Engineering Concepts (GasTEC)

## GasTEC U: GasTEC I + GasTEC II \*

Target:

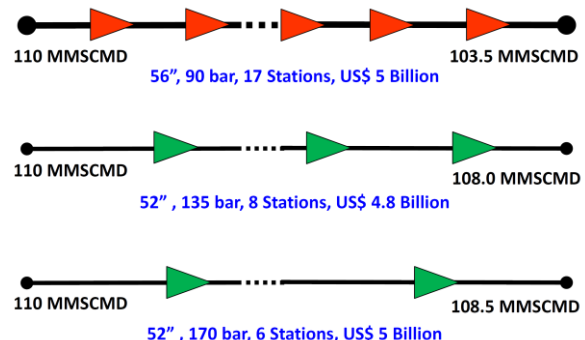
Process Integration Idea:

Machinery Engineering Idea:

Gas Pipelines + Compressor Stations  
High Pressure Design + Heat Recovery  
Less Compressor Stations + ST-Comp

## Case Study

- A 4 PJ/day Gas Pipeline
- Classic Design:
  - 56" , 17 CS
- Design Options Based on GasTEC U:
  1. 52" , 8 CS
  2. 52" , 6 CS
- **Fuel Consumption Reduction > 70%**
- **Fuel Gas Saved  $\approx$  67 PJ/year**
- **Added Capital Cost  $\approx$  0**



## \* Gas Transmission Engineering Concepts (GasTEC)

- GasTEC I: CCSD  
Combined Compressor Station Design
- GasTEC II: OPD  
Optimal Pipeline Design
- GasTEC III: ICSD  
Integrated Compressor Station Design
- GasTEC IV: TEPR  
Turboexpander Equipped Pressure Reduction

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