

MODERN GAS TRANSMISSION SOLUTIONS



Introducing:

2nd Gas Transmission Engineering Concept

GasTEC II

"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 II: OPD (Optimum Pipeline Design)

Target:

Process Integration Idea:

Machinery Engineering Idea:

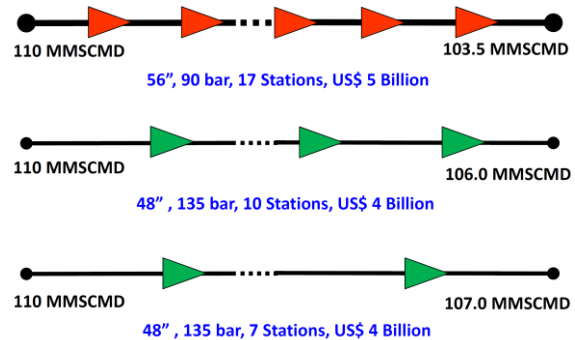
Gas Pipelines

High Pressure Pipeline Hydraulic Design

Less Compressor Stations

Case Study

- A 4 PJ/day Gas Pipeline
- Classic Design:
 - 56", 17 CS
- OPD Options (Based on GasTEC II):
 - 48", 10 CS
 - 48", 7 CS
- Fuel Consumption Reduction > 50%**
- Fuel Gas Saved \approx 48 PJ/year**
- Reduced Capital Cost!**



A Similar North American Case → [Alliance Pipeline](#)

Other GasTEC

- GasTEC I: CCSD
Combined Compressor Station Design
- GasTEC III: ICSD
Integrated Compressor Station Design
- GasTEC IV: TEPR
Turboexpander Equipped Pressure Reduction
- GasTEC V: UGT
The Ultimate Gas Transmission Solution



Alliance Pipeline

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