

Gas Treatment for New Iraq

Increase Iraq's revenues by marshaling the power of fuel economics

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Potential Flare Gas (major locations)

~1,400 MMscfd can add up to 8 GW as New Power Capacity



+100 MMscfd

+200 MMscfd

+1100 MMscfd

The Challenge

- Fuel availability shortage
- Flare gas emissions
- Financing

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Our Commitment

- Iraq Gas to Power concept, NG treatment plants provides fuel where High efficiency CCPP using treated NG
- Iraqi sourcing, training, jobs & emissions reduction
- Monetize the gas (LPG & Condensate)
- Clean gas for power generation
- Support financing
- Develop a consortium to lead the entire turnkey projects
- Lead the project executions

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Your Benefit per one Gas Plant - 150mmscfd

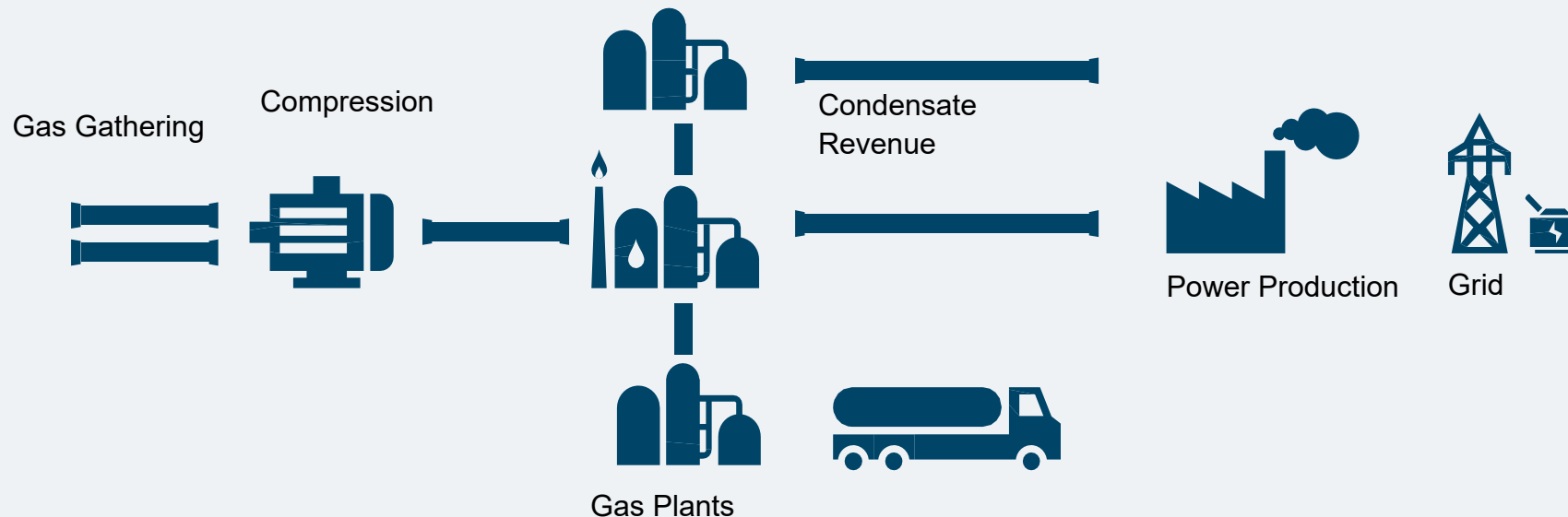
- Fast track, +3000 Direct Jobs per site
- High return on investment, within 2 years!
- Incremental savings on fuel for power gen

Siemens Gas Treatment Solutions for Iraq

Value chain and our offering

Treated Flare Gas Value Chain:

Monetize the gas (LPG & Condensate) to maximize revenue streams for the Government of Iraq with 3-4 years payback time



Opportunity
for Iraq



Emission
reduction



Revenue



Fuel for power
Generation



Jobs

Fuel optimization and efficiency increase
Siemens can provide...

- ... highest efficient technology and modular solutions
- ... engineering, procurement and project management capability pre-FEED to project execution and handover
- ... creation of a consortium to lead the entire turnkey projects
- ... support in financing of projects
- ... utilization of local Iraqi sourcing, training & local jobs to stimulate the economy
- ... optimized schedule and fast track execution with single interface

The Siemens Solution - LSTK E-Houses and Modules

Plug & Play Modules

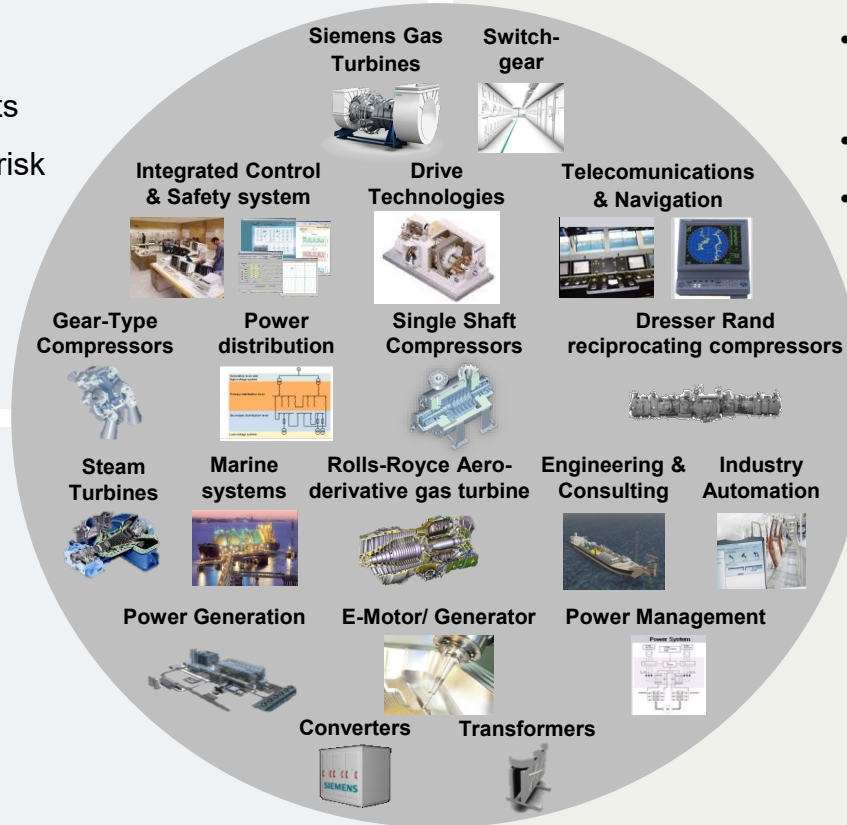
Turnkey Solutions

E-Houses for Onshore and Offshore

- Optimize space usage
- Reduced maintenance and life time costs
- Minimize on-site activities with reduced risk
- Custom-made solution
- High flexibility

Floating Power

- Fast supply of electricity to areas with limited infrastructure
- Flexibility and mobility
- Save 40% of project execution time



Power Generation and Compression Modules

- Fully tested and certified
- Single source supplier/ integrator
- Configurable with different fuel types
- Integrated electrical equipment
- Site work and risks minimized
- Plug & Play single lift

Compression Station

- Single Source for total scope
- Fully Integrated Siemens components
- In-House engineering team

Present details (before upgrading)

O&G Fabrication Yard, Batam Island, Indonesia

- Total area: 175,015 m²
- Covered area: 10,000 m²
- Capacity: 12,000 MT / year
- Load out up to 4,000 MT
- HSE Across multiple projects: >16,000,000 safe man hours (2016)
- Modules: 20 / year (considering average weight 600 MT per module)
- Man hours: 10,000,000 / year (average of 500,000 per module)



Completed in just 16 months

Taweelah Gas Compression Station

- Gas transportation from Abu Dhabi to Dubai
- First gas achieved within 16 months (FEED study recommended 26 months)
- Compressors, motors, and other electrical / control systems by Siemens
- ~7 million safe man hours without lost time incident (LTI)
- Significant cost savings due to total solution using own product and in-house engineering setup

Siemens and Iraq partnership

The power of a promise – قوة الإلتزام بالوعد

SIEMENS
Ingenuity for life

