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Ingenuity for life

Gas to Power – OEM vision

IBC Energy Committee
Berlin, 24th March, 2017

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Constrained Budgets & Private Sector liquidity driving off balance sheet power solutions creating new value chains

G2P Value Chain



IOCs, NOCs, LNG Equity Supply, Portfolio Players

Liquefaction IPP

Infrastructure Players, Shipping Companies, Marketers /Traders

Power IPP

Utilities

Upstream Trends

- New LNG sources and pricing opens new global opportunities and economics
- LNG suppliers willing to provide development capital, and equity financing to secure offtake
- Increasing transportation infrastructure available

Downstream Trends

- Major countries lacking clean fuel for power
- Secured fuel supply necessary and critical to develop countries further
- Total solution provided by experienced OEM integrated with LNG supply

Understanding LNG markets and pricing is paramount to structure a bankable power project

G2P Value Chain



Exploration and Natural Gas Transport

Liquefaction

Shipping

Regasification & storage

CCPP

Electricity

O&G Company

Global or local Oil & Gas companies

Global O&G or LNG trading companies

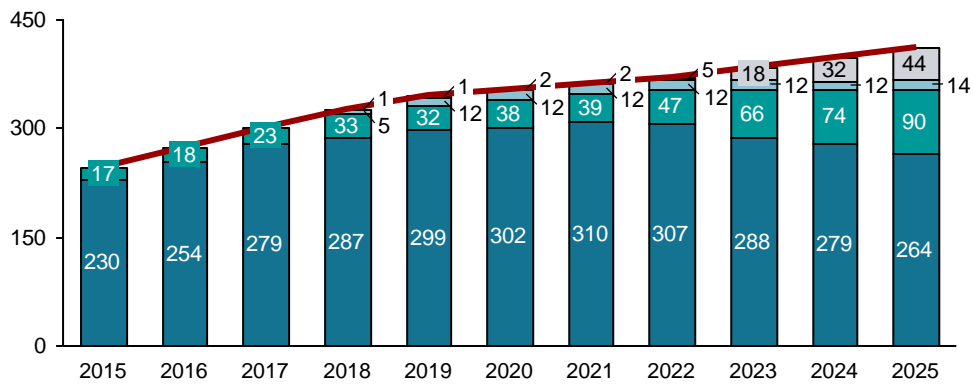
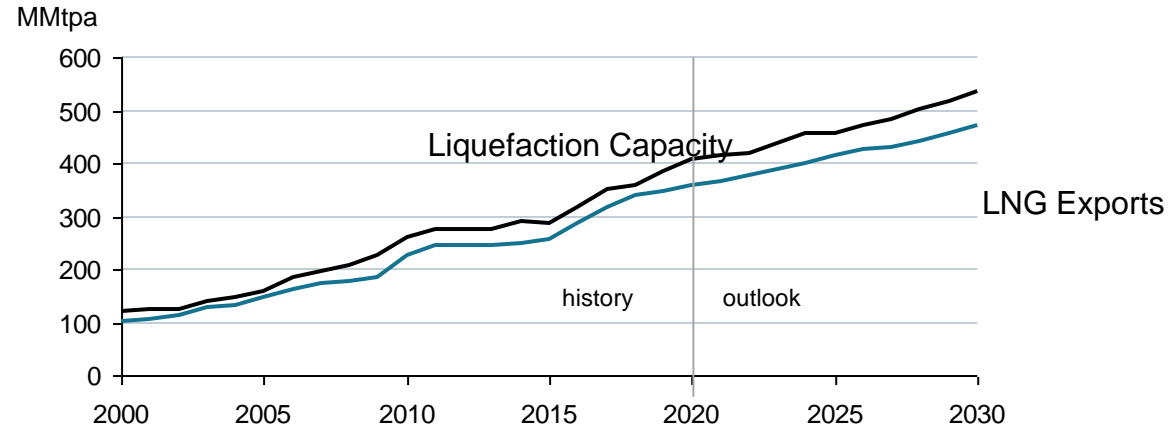
O&G companies, EPCs, trading houses

IPPs, Developers & Utilities

Consumers

In addition, LNG offers new supply options

Global LNG liquefaction capacity and contracts



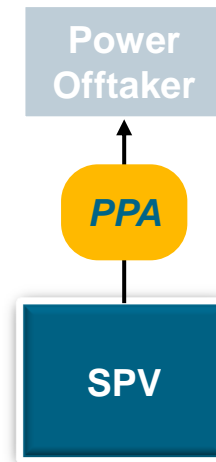
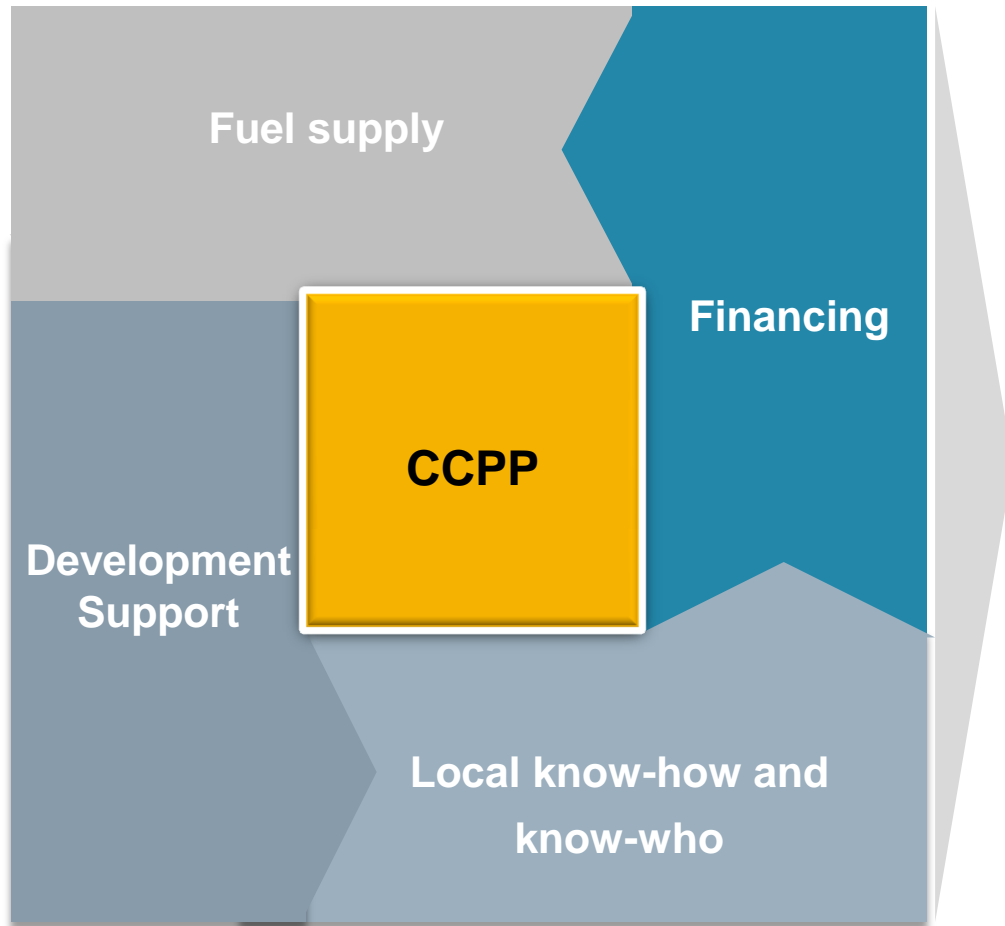
— Demand
 ■ Under construction (uncontracted)
 ■ Existing supply (contracted)
■ Capacity gap
 ■ Existing supply (uncontracted)

Source: IHS LNG forecast service

- Abundant gas resources available broadly distributed over the world
- US shale gas is a game changer in terms of global gas trade and price setting
- LNG supports the establishment of a global gas trade with high price transparency
- LNG regasification terminals offer new supply options and diversification of trade routes
- Competing LNG import option serve as a price damper (US LNG exports)
- First integrated G2P projects coming online (e.g. Malta)

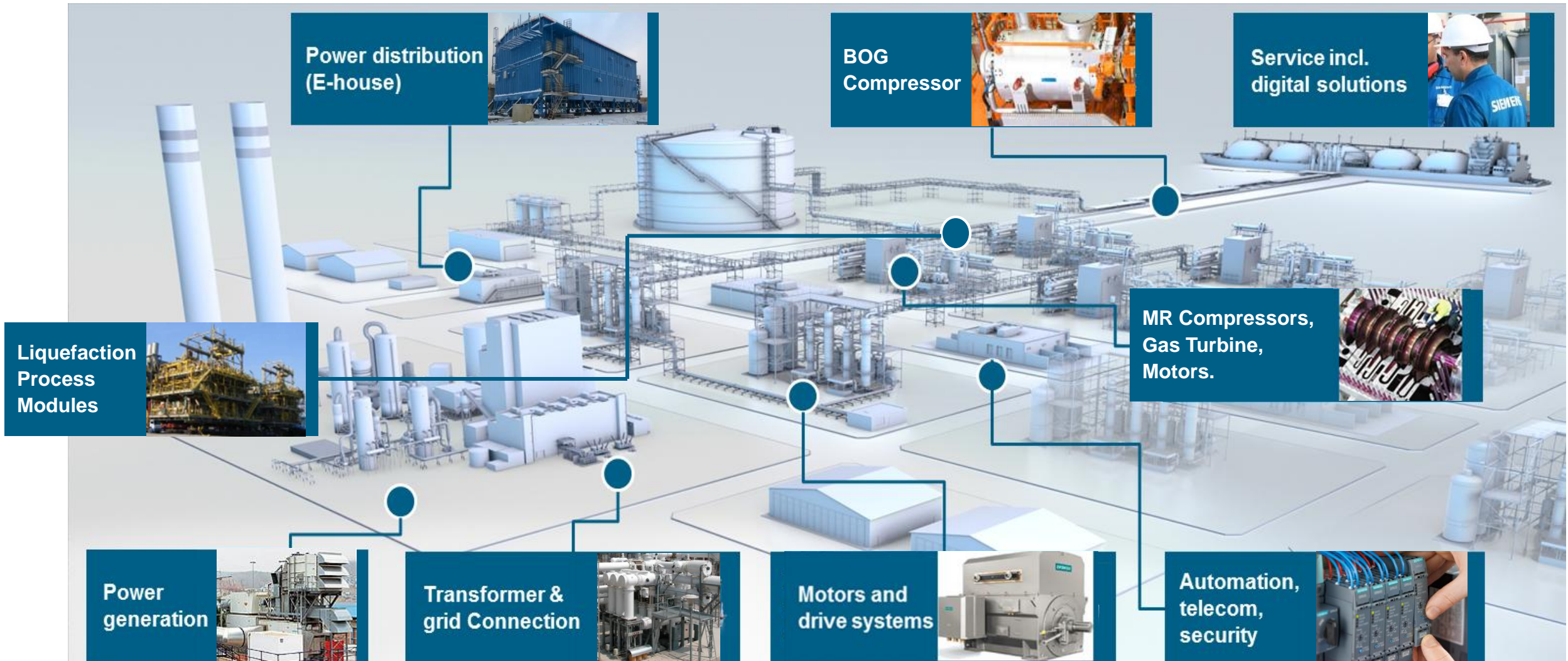


Siemens Gas to Power



- Project structuring
- Suitable power generation technology
- Tailored LNG supply and delivery infrastructure
- Local partnering
- Development
- Life-cycle O&M support

Siemens Portfolio in G2P



Global Examples of G2P

Typical criteria for LNG - G2P applications

- No local natural gas system in place, e.g. Islands
- Bring power to Remote locations- via debunkering LNG
- Reduce high cost of liquid fuel generation
- Improve environmental profile – reduce coal, HFO or Crude burning installed generation
- Improve efficiencies of existing outdated generation
- Balance renewable with highly flexible clean burning alternative generation
- Satisfy load growth through new efficient power generation

Delimara (Malta)

Integration of LNG to Power solution

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Siemens has been awarded an order by Electrogas Malta for the turnkey construction of a combined cycle power plant (CCPP).

The natural-gas-fired plant has an electrical power output of 205 megawatt (MW) and will thereby meet around 50 percent of Malta's electricity demand after commission in summer 2016.

The regasification system uses the Mediterranean seawater and the glycol/water loop to heat and vaporize the LNG via a propane circuit.



Delimara (Malta)

Reliable CCPP with high efficiencies

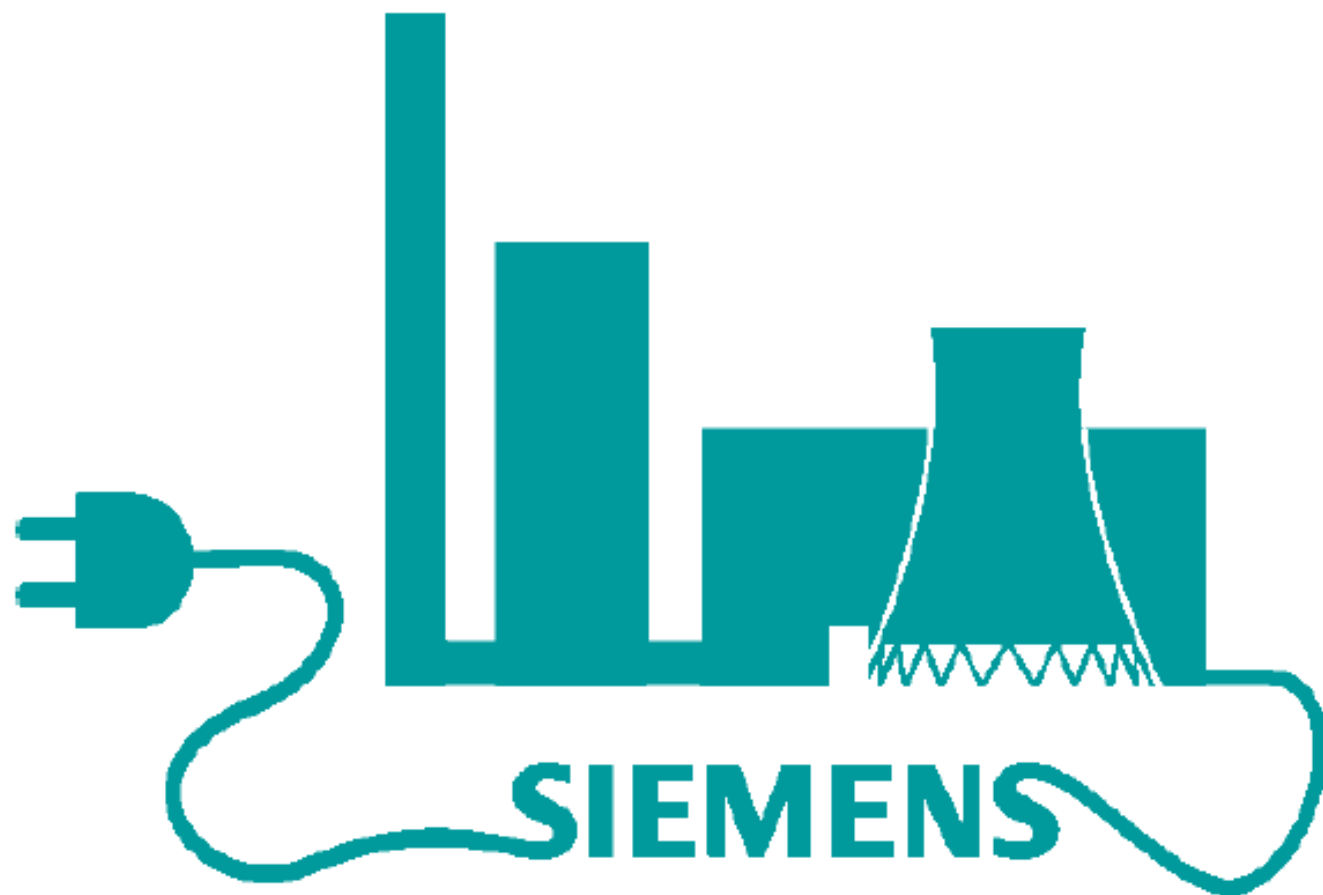
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Project Summary

Project	Delimara
Customer	ElectroGas, Malta
Application	205 MW _{el} LNG-fired power plant
Technology	3 x SGT-800 Gas Turbines, 3 x HRSG and 1 x SST-900 Steam Turbine
Start	2014
Complete	2017
Challenge	<ul style="list-style-type: none"> - Governmental change out of heavy fuel oil towards LNG - Reliable power generation for 50% of Malta's electricity demand
Solution	<ul style="list-style-type: none"> - Combined cycle power plant based on 3 x 1 configuration delivers 205 MW_{el} with high efficiency and low emissions also at part load operation - High performance in high ambient air temperatures by inlet air cooling system using chilling power from LNG regasification process
Benefits	<ul style="list-style-type: none"> - Reduced level of air pollution and fuel consumption in country - Low power generation costs - Reliable technology with high availability



Thank You!



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PLANS INTO
PLANTS**