LNG Cluster Cooperation
LNG Cold energy Utilization project

Klaipeda
January 31, 2017
Emerson Introduction

FOUNDED
1890
HEADQUARTERS IN
ST. LOUIS, MO USA

OUR PEOPLE
110,000+
WORLDWIDE

2015 RECOGNITION
#120
AMONG
FORTUNE 500
OF AMERICA’S LARGEST CORPORATIONS

FORTUNE
WORLD’S MOST
ADMIRED
COMPANIES

THOMSON REUTERS
TOP 100 GLOBAL
INNOVATORS

GLOBAL MANUFACTURING
AND SALES PRESENCE

205
MANUFACTURING LOCATIONS
150+
COUNTRIES

$22.3 BILLION
IN GLOBAL SALES

59 YEARS
CONSECUTIVE YEARS OF INCREASED DIVIDENDS

NYSE: EMR
Our Brand Promise

Emerson is where technology and engineering come together to create solutions for the benefit of our customers, driven without compromise for a world in action.
Solving the Process Industry’s Challenges to Help Customers Achieve Top Quartile Performance

What We Deliver
Technologies and services that help companies automate, control and optimize their production, processing and distribution systems

Industries served include:
- Oil and Gas / Refining
- Chemical
- Power
- Industrial Energy
- Pharmaceutical
- Mining and Metals
- Food and Beverage

Our Brands Include
- Bettis
- DeltaV
- Fisher
- Micro Motion
- Ovation
- Rosemount

Sales
$8.5B

Employees
~41,000
Emerson Is Trusted with the Largest, Most Complex Projects in the World

- Petrobras COMPERJ: Largest SA MAC
- Sasol: World-scale ethane cracker and derivatives complex
- Braskem-Idesa: 1M+ metric ton/yr ethylene plant
- MWRD – Chicago: World's largest WW treatment plant
- BP Whiting: Automation upgrade and expansion at BP's largest refinery
- Statoil: Platform hot cutover upgrade
- North West Redwater: First new Canadian refinery in 30 years
- Sasol: World-scale ethane cracker and derivatives complex
- Fujian Refining and Ethylene: China's largest integrated refining / petrochemical facility
- Petrobras COMPERJ: Largest SA MAC
- Vale: World's largest truckless mine
- BASF-YPC: 10-plant chemical complex
- Qatarargas: World's largest LNG trains
- Fujian Refining and Ethylene: China's largest integrated refining / petrochemical facility
- Santorin: World’s largest LNG trains
- Shell Prelude FLNG: Largest floating structure built in the world
- BASF-YPC: 10-plant chemical complex
- Shell (SPEX): Unmanned remote facility
- Huaneng Group: Four 1000MW ultra-supercritical power plants
- Conoco Phillips Bohai-II: Six platforms and large FPSO
- BP North Sea: Platforms and large FPSO
- PGE Belchatow: Largest fossil power plant in Europe
- Fujian Refining and Ethylene: China's largest integrated refining / petrochemical facility
- Santos ACE: Largest on shore gas plant in Australia
EMERSON is supporting Lithuanian LNG Cluster to develop regional industry expertise center.
Virtual pipeline
LIT – full solution

- Standard LNG solution ready for the market with Optional monitoring for safety mitigation during delivery of full tank / fuel cell
- Standard infrastructure solution
- **Unique COLD energy utilization solution**
- Part of unique excellence center in Klaipeda
Cold energy potential business case

Virtual pipeline creation - LIT

Cold energy potential business case

“LIT”
Cargo monitoring
I&C
LNG regas/heat exchanger
Primary inlet flow
Primary inlet temp
Secondary inlet flow
Secondary inlet temp
Natural Gas grid

Cargo monitoring
Natural Gas grid
Heat exchanger solution development
Thank You