Create Shareholder Value

Gulf Coast Ammonia Project Win: Air Products’ Largest-ever US Investment

January 8, 2020
Forward-looking statements

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Ammonia production process: Gulf Coast Ammonia (GCA) Project

- ~1.3 million tons per year of ammonia
- Located in Texas City, Texas
- ~$1.1 billion of total investment
Gulf Coast Ammonia (GCA) Project
Texas City, Texas

Moving forward

Air Products
- Build, Own, Operate
- ~$0.5 billion invest

GCA
- Partners
  - Starwood
  - Mabanaft
- ~$0.6 billion invest

Only major product flows shown
World-scale ammonia production

- **GCA ownership**
  - Starwood Energy Group: Private investment firm specializing in energy infrastructure
  - Mabanaft GmbH: International trading company; concentrates on physical wholesale, supply, trading of petroleum products; subsidiary of Marquard & Bahls

- **Financing**
  - GCA project financing closed

- **New facility**
  - Produce ~1.3 million tons per year of ammonia
  - Property leased from Eastman in Texas City

- **Ammonia off-take**
  - Strong long-term ammonia offtake agreements supported project financing
Air Products GCA project

• **Hydrogen**
  - Connect Air Products’ existing / world’s-largest H₂ pipeline system to Texas City: 30+ mile extension, significant capacity for future opportunities
  - Supply >100 million scfd from pipeline system to GCA
  - Build, Own and Operate (BOO) largest-ever H₂ steam-methane reformer in Texas City to supply ~175 million scfd

• **Nitrogen & utilities**
  - BOO ASU in Texas City to supply ~90 million scfd of nitrogen
  - BOO steam turbine generator

• **Timing**
  - Pipeline: onstream second half 2021
  - New plants: commercial operation early 2023

• **Long-term onsite supply agreements (20 years)**
Air Products US Gulf Coast H₂ system: Expanded pipeline and hydrogen capacity

New H₂ SMR for GCA creates:
- ~700-mile system
- >1.7 billion scfd capacity
- 14 SMRs
- 2 H₂/CO/SG plants
- 8 off-gas recovery plants

- Air Products H₂ pipeline
- H₂ SMR
- H₂/CO/SG plant
- Off-Gas H₂ plant
Moving forward

Gulf Coast Ammonia (GCA) project: A perfect fit with APD’s long-term strategy

• Creates significant shareholder value
  - Air Products’ largest-ever US investment (~$500 million)
  - Geographic investment balance
  - Returns consistent with stated commitments

• Strengthens and expands Air Products’ US Gulf Coast hydrogen (H₂) pipeline network
  - Significant potential future opportunities

• Reinforces Air Products’ very large project execution expertise
  - Largest-ever Air Products H₂ plant
Thank you

tell me more