



ENERGY TRANSFER

Moving America's Energy

Proposed Ethane Chilling Expansion Project

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Marcus Hook Terminal (MHT)

May 2022



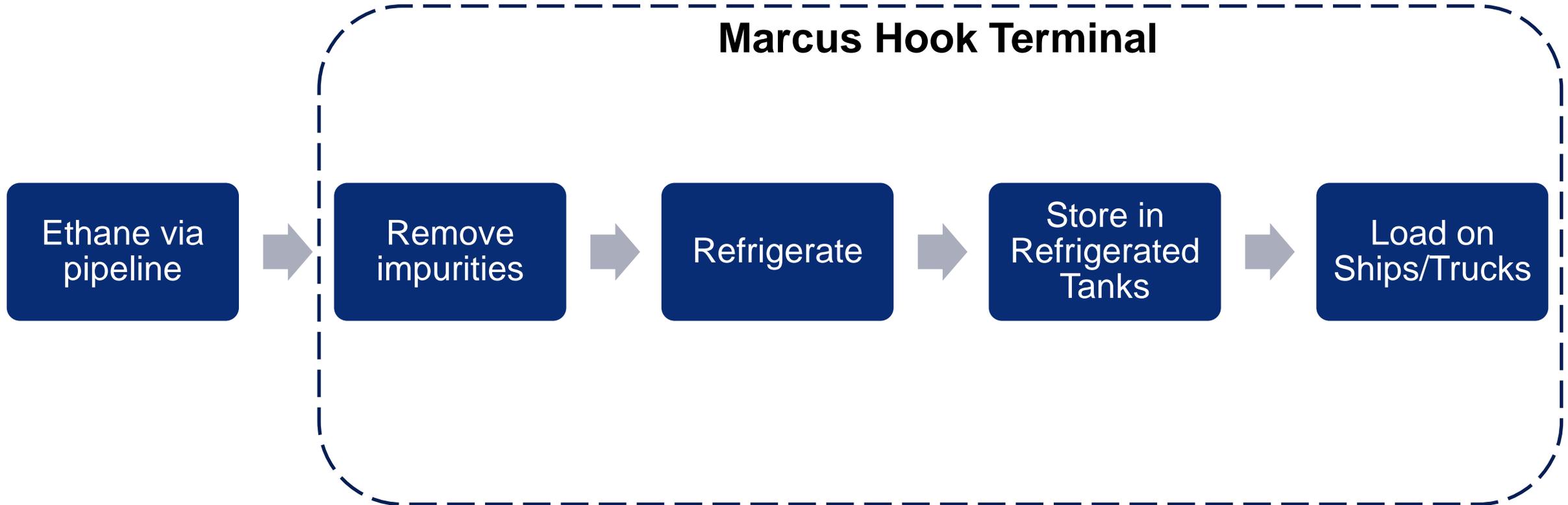
Marcus Hook Industrial Transformation

1930s

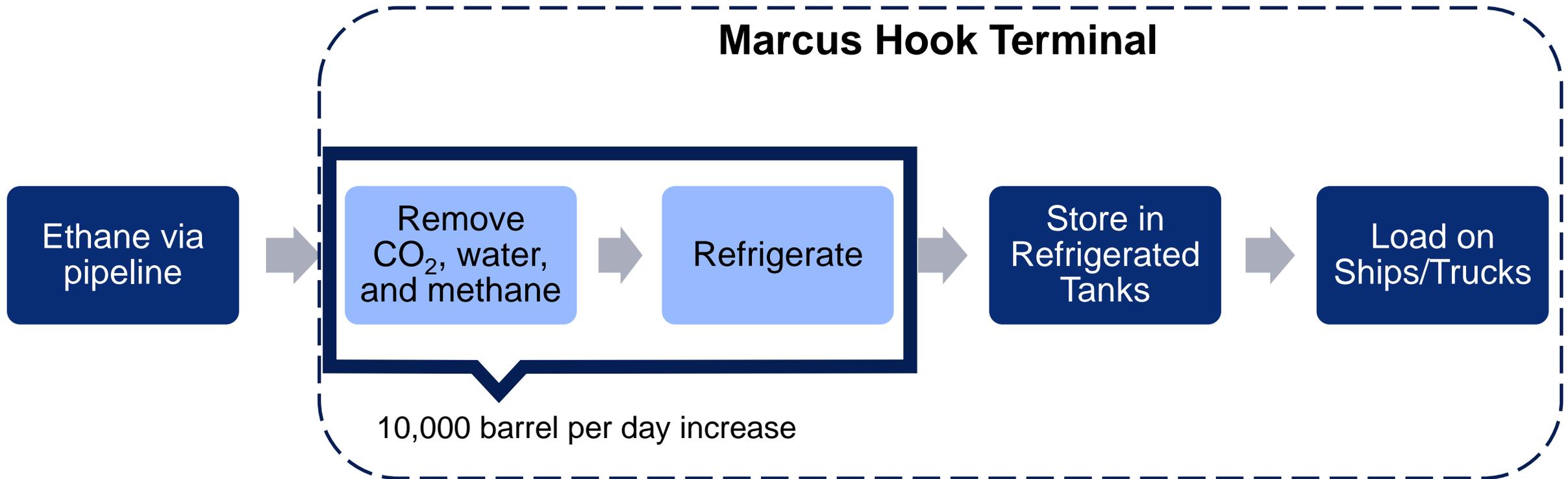




MHT Current Ethane Chilling Operations



Proposed Ethane Chilling Expansion Project



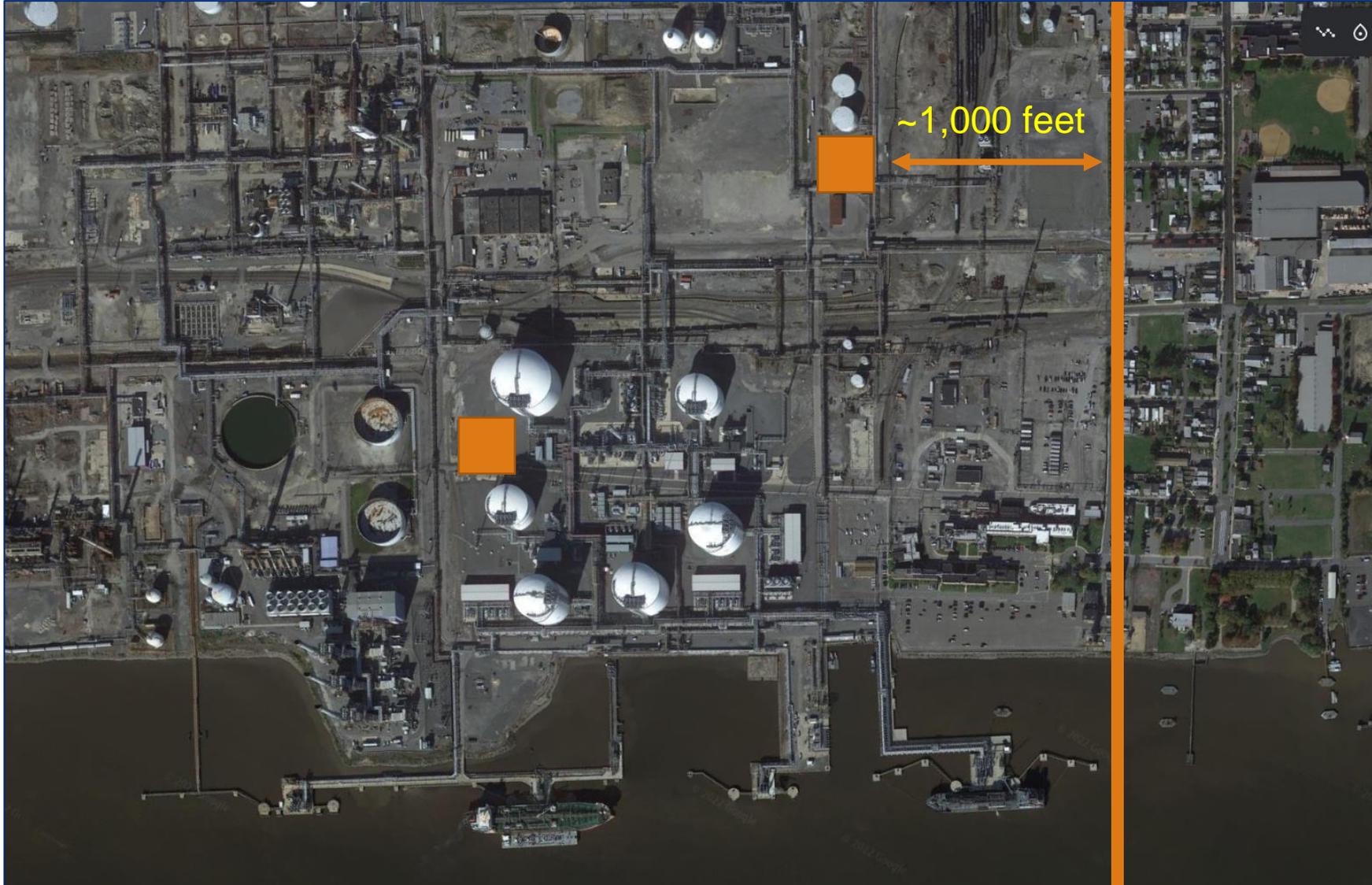
Proposed Equipment – Piping Components

- **Types of new equipment**

- Piping components = pumps, valves, connectors, compressor



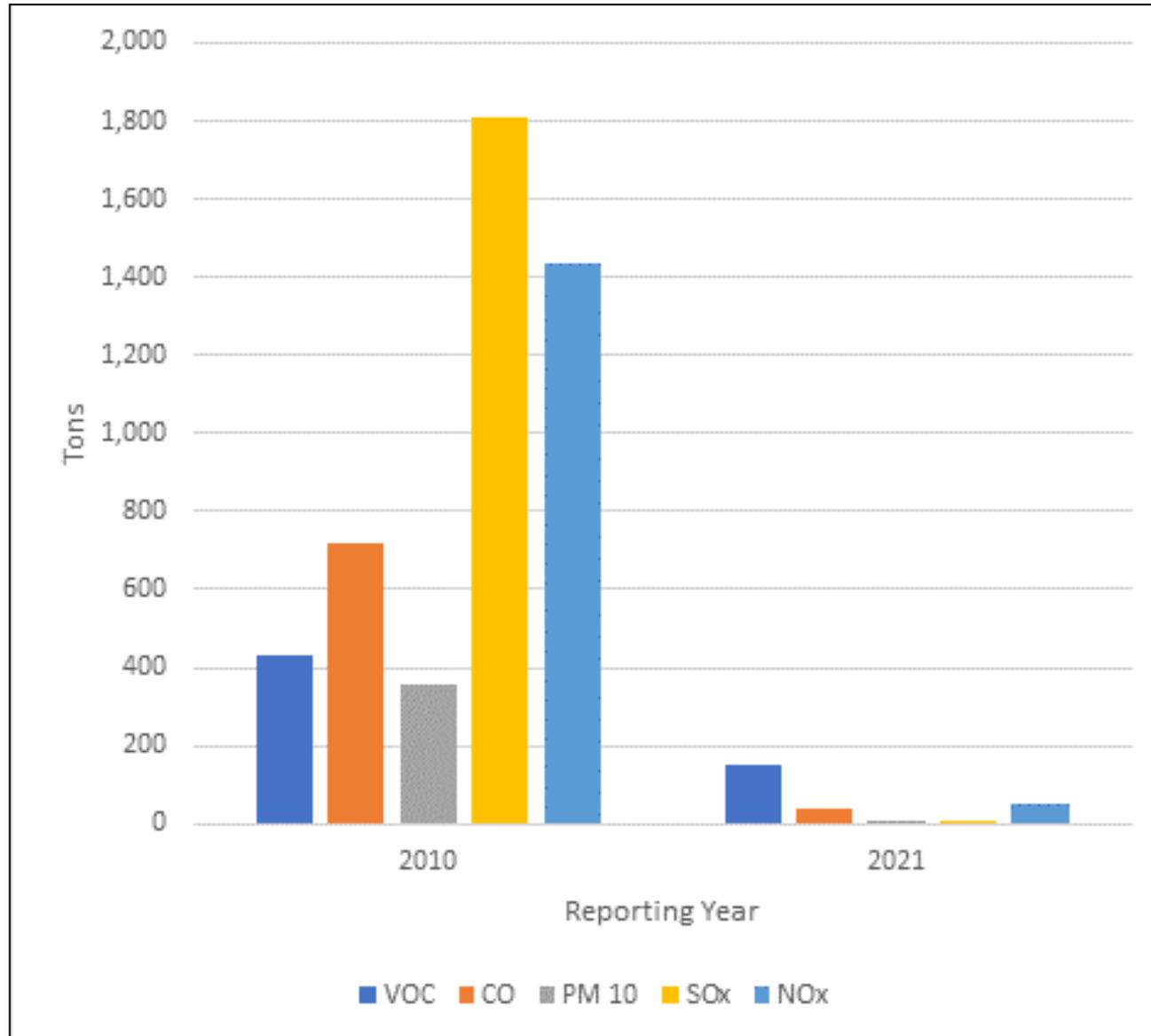
Proposed Equipment



- **Flares (2)**
 - Burn off hydrocarbons contained in new equipment when needed
- **Boilers (3)**
 - Generate additional steam required by new equipment

- Expected to be small; based on air dispersion modeling, no significant emissions impact expected to surrounding communities
- Mostly fugitive emissions, some additional flaring and steam
- Robust Leak Detection and Repair program
- Will minimize fugitive emissions with best available technology, industry standards
- Equipment design in compliance with regulatory requirements

Emissions Reductions



- **Annual air emissions - 2010**
 - VOC – 432 tons
 - CO – 718 tons
 - NOx – 1,439 tons
 - PM 10 – 357 tons
 - SOx – 1,808 tons
- **Annual air emissions - 2021**
 - VOC – 149 tons (65% decrease)
 - CO – 39 tons (95% decrease)
 - NOx – 51 tons (96% decrease)
 - PM 10 – 4 tons (98.9% decrease)
 - SOx – 5 tons (99.7% decrease)

QUESTIONS?

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Energy Transfer Marcus Hook Terminal

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