

# Dawn to Corunna Replacement Project

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EB-2022-0086

Technical Conference

# Enbridge Gas Inc.



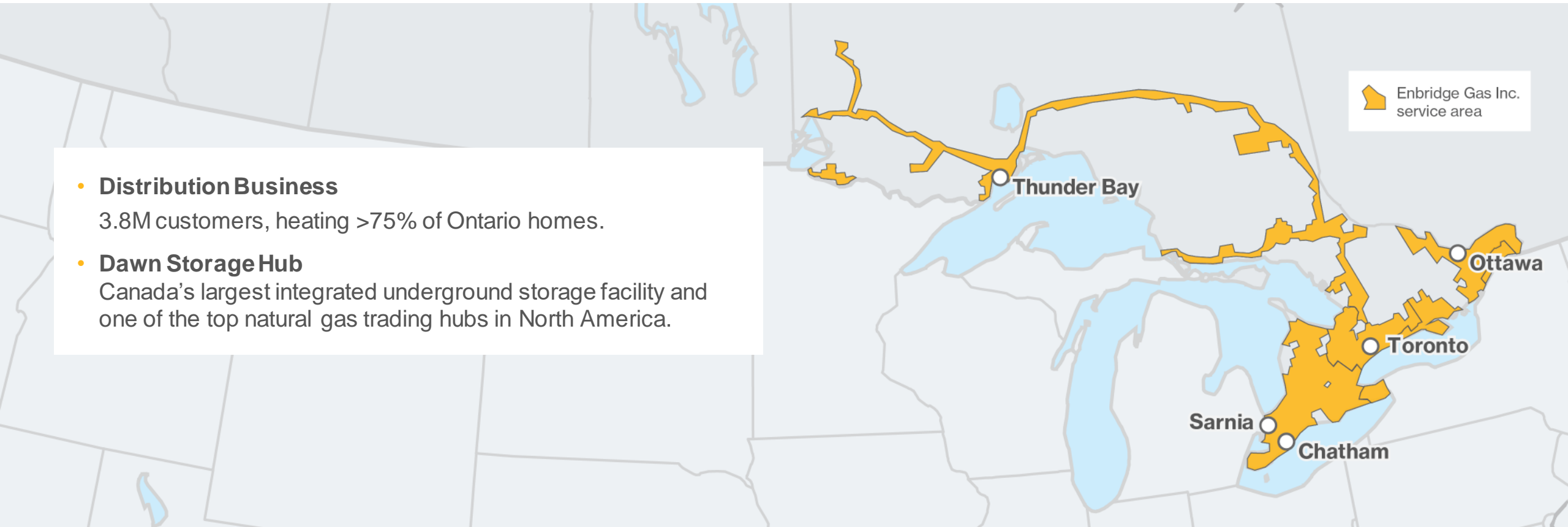
North America's largest natural gas storage, transmission and distribution company

- **Distribution Business**

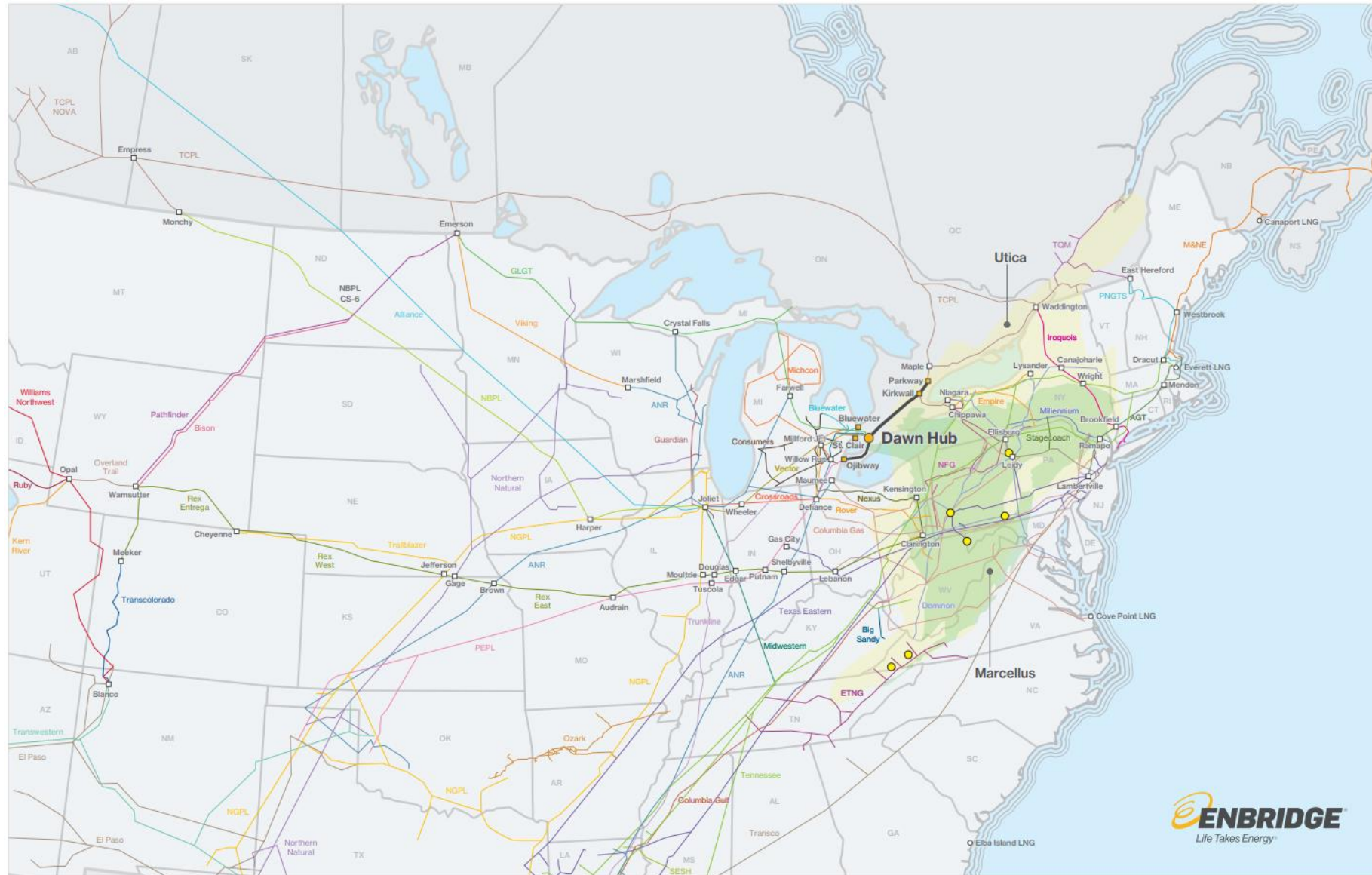
3.8M customers, heating >75% of Ontario homes.

- **Dawn Storage Hub**

Canada's largest integrated underground storage facility and one of the top natural gas trading hubs in North America.

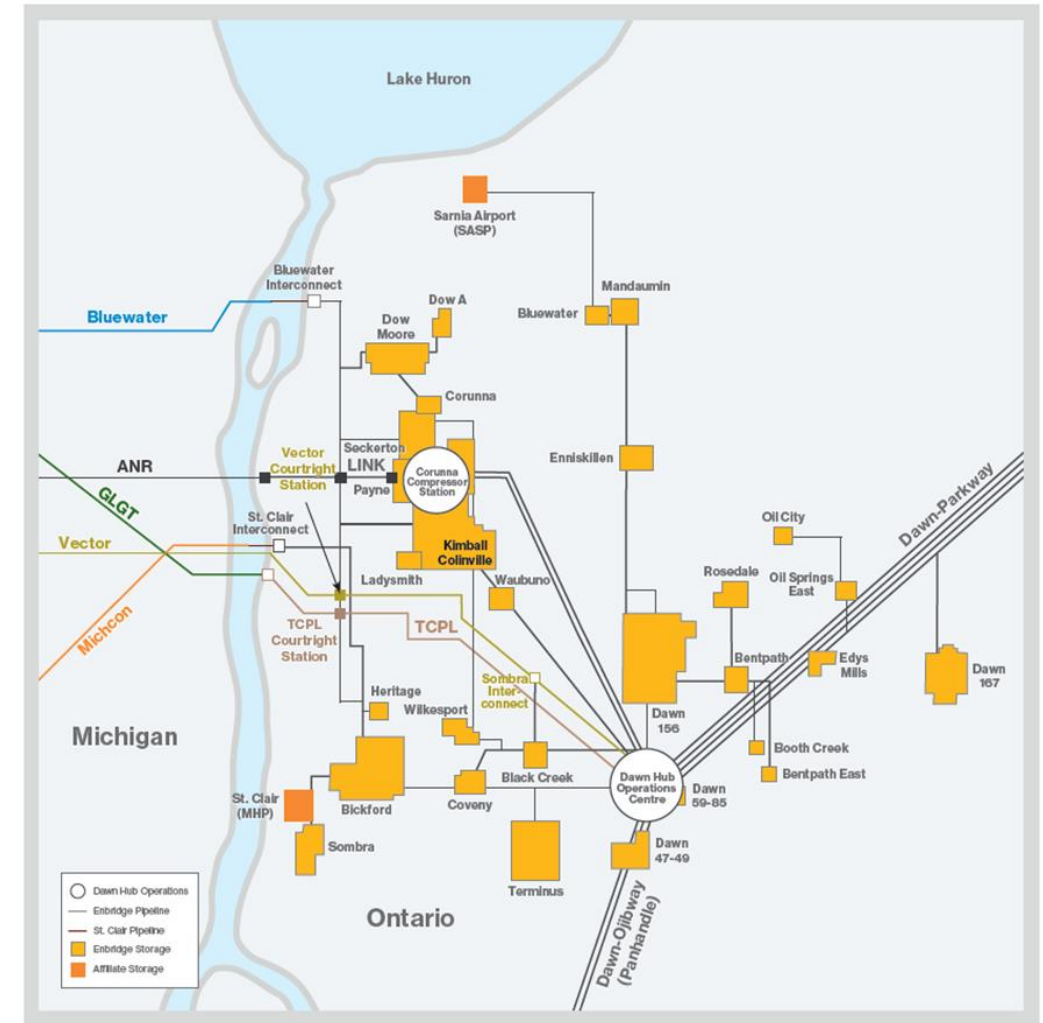


# North American Natural Gas Market



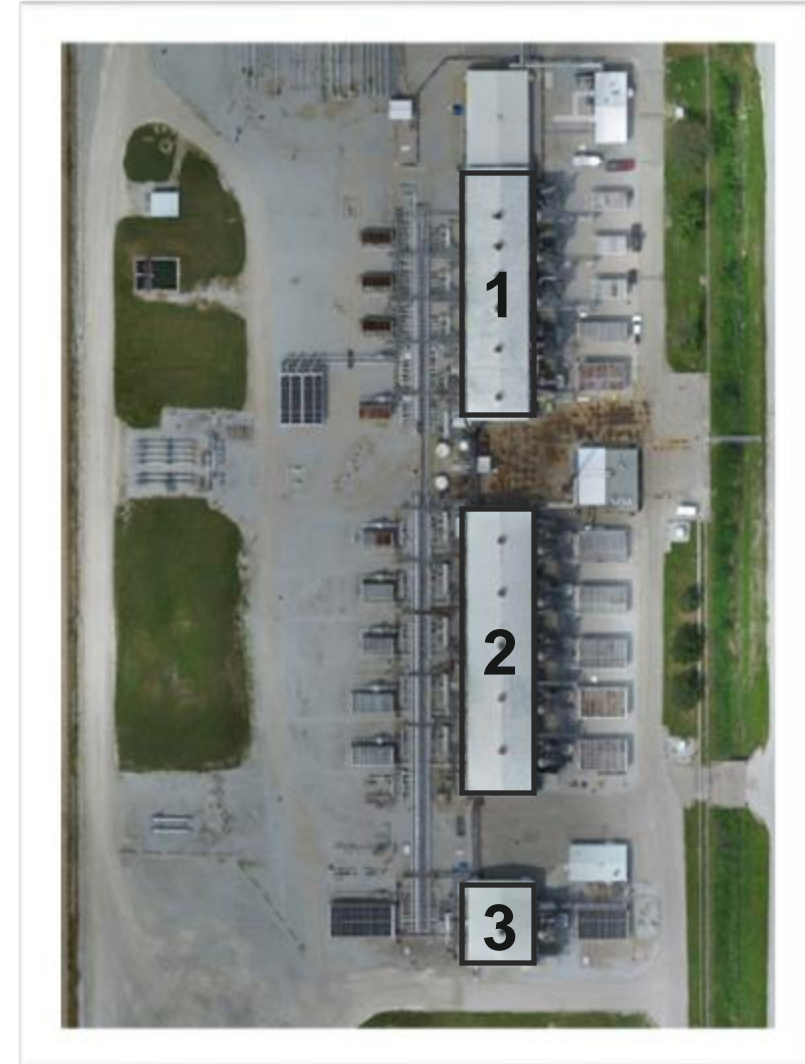
# Dawn Hub Integrated Storage System

- 35 storage pools containing 377 wells
- 320 PJ of storage capacity
  - Range in size from 0.3 PJ to 32.6 PJ
- 6.3 PJ of total deliverability on Design Day
- Corunna Compressor Station connected to Dawn Operations Centre via twin NPS 30 pipelines
- 253,000 HP at Dawn and 36,750 HP at CCS
- 5.6 PJ/d dehydration capacity at Dawn
- Design Day planning includes all facilities



# Corunna Compressor Station

Unit	Building	Installed	HP
* K701	1	1964	2,500
* K702	1	1964	2,500
* K703	1	1964	2,500
K704	1	1968	3,000
* K705	1	1970	3,750
* K706	2	1972	3,750
* K707	2	1973	3,750
* K708	2	1974	3,750
K709	2	1980	3,750
K710	2	1983	3,750
K711	3	1995	3,750

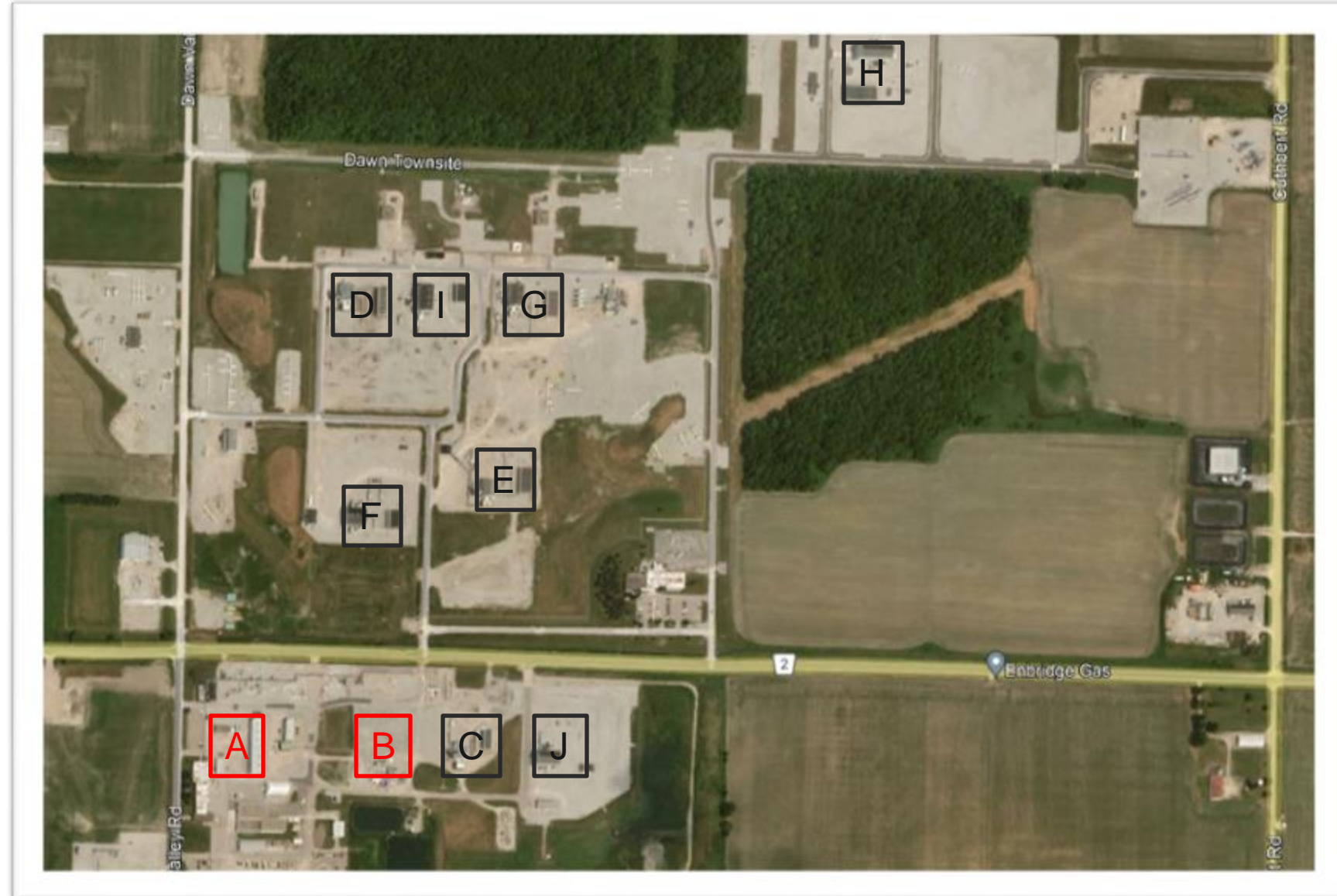


\* Proposed to be abandoned as part of the Project <sup>5</sup>



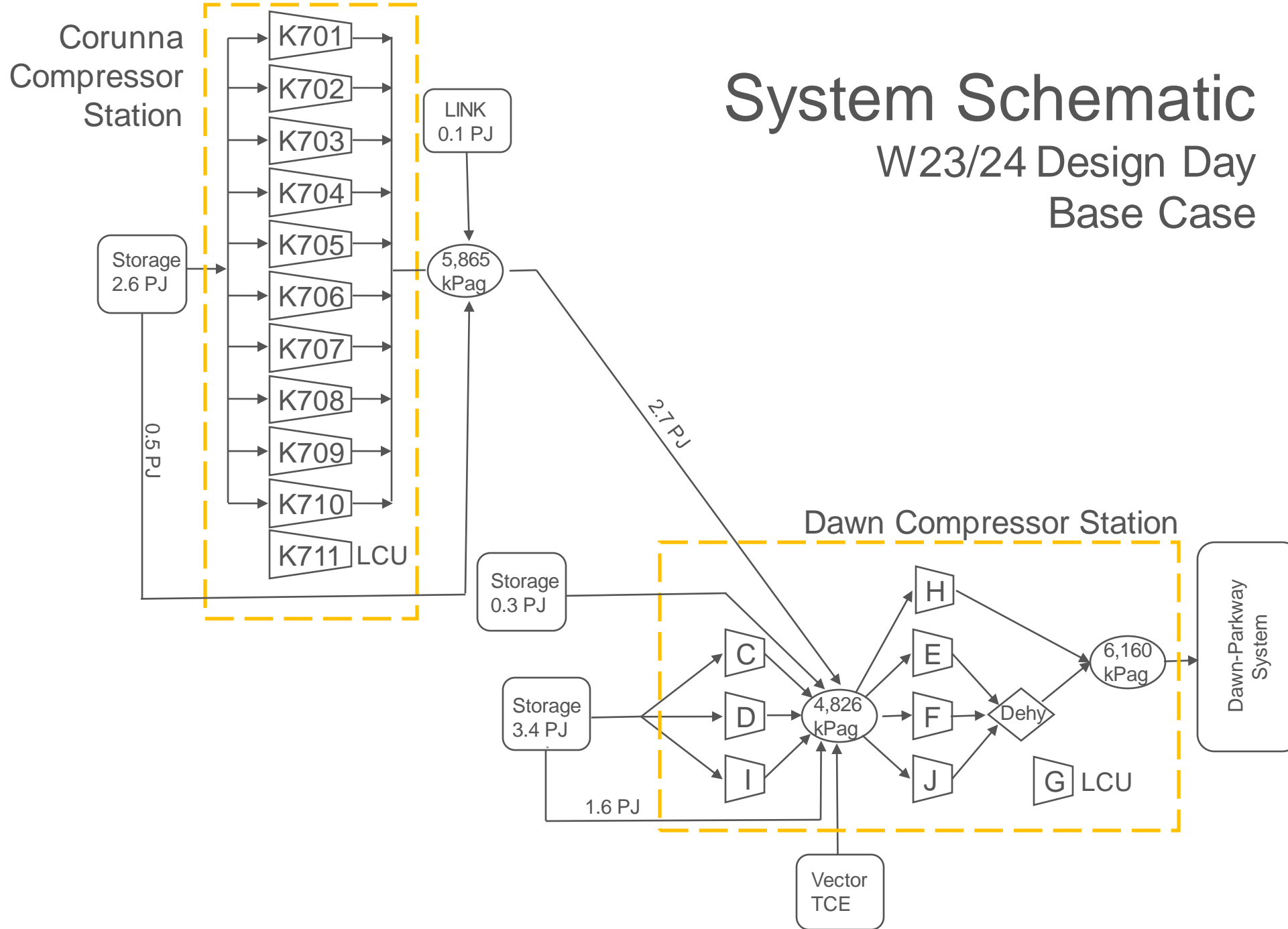
# Dawn Compressor Station

Plant	Installed	HP
A	Abandoned	12,800
B	Abandoned	26,700
C	1983	30,270
D	1989	33,350
E	1990	35,000
F-1	2006	10,310
F-2	2007	10,310
G	1993	35,000
H	2017	44,500
I	2008	44,100
J	2011	10,310



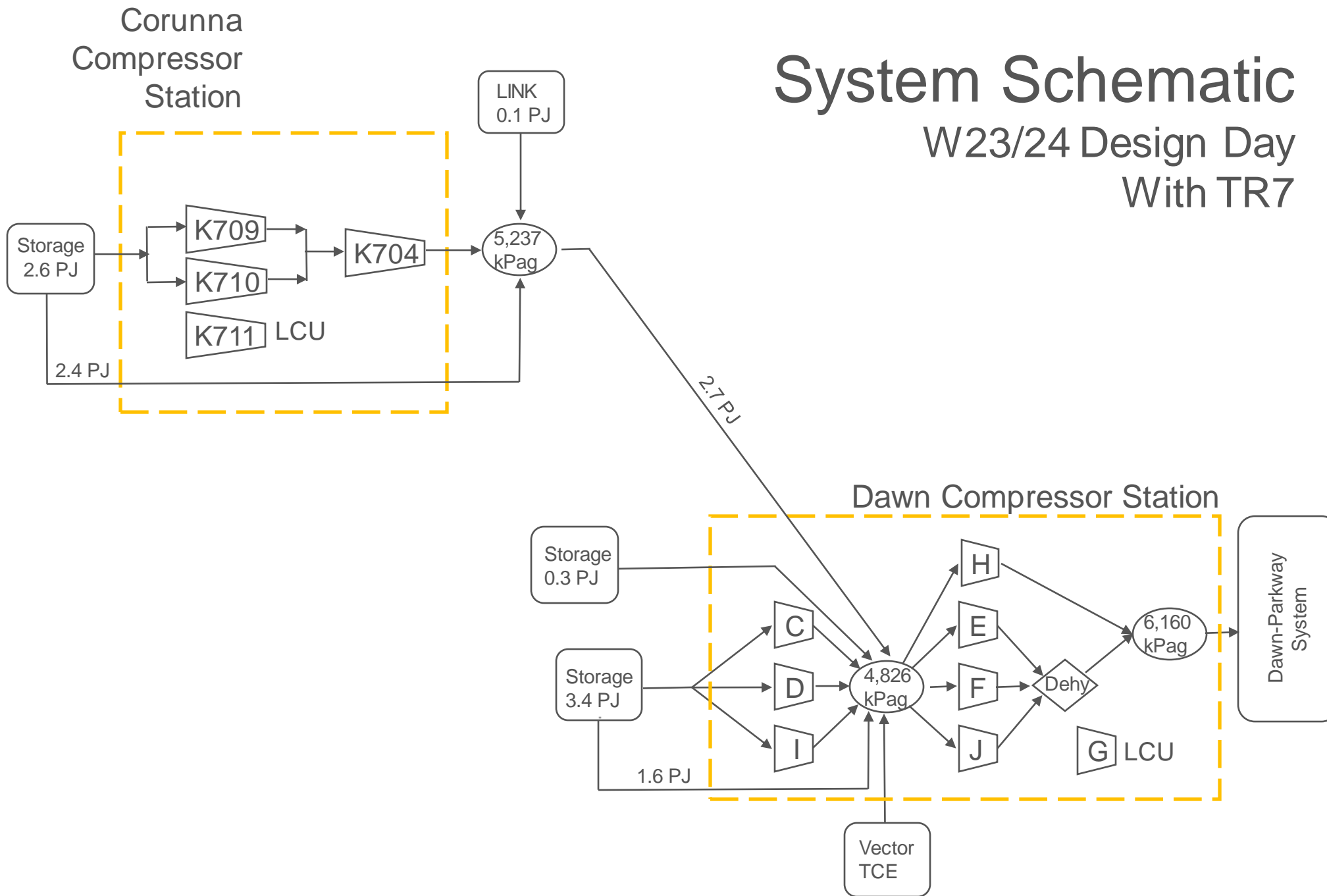
# System Schematic

## W23/24 Design Day Base Case



# System Schematic

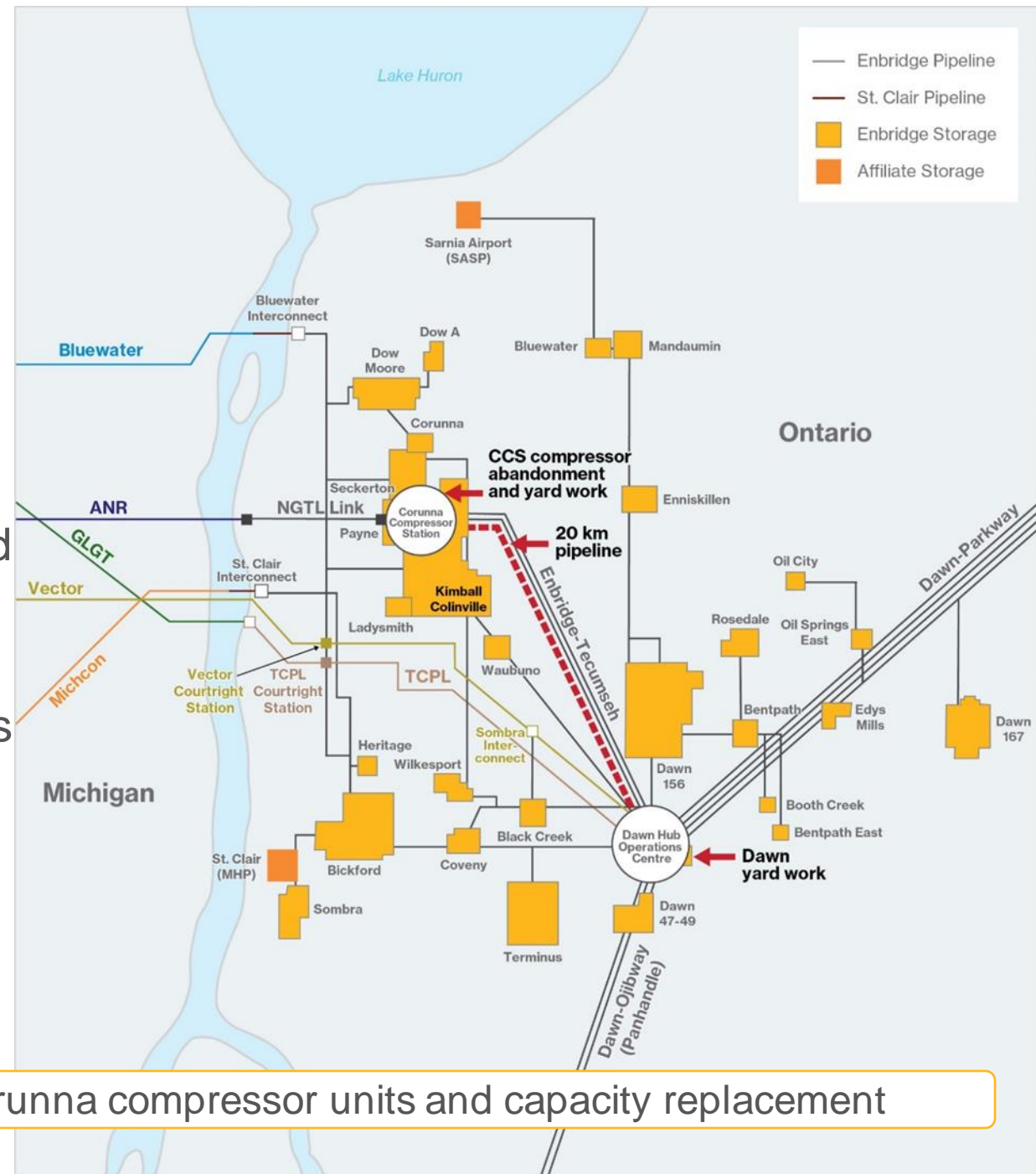
W23/24 Design Day  
With TR7





# Dawn to Corunna Replacement Project (TR7)

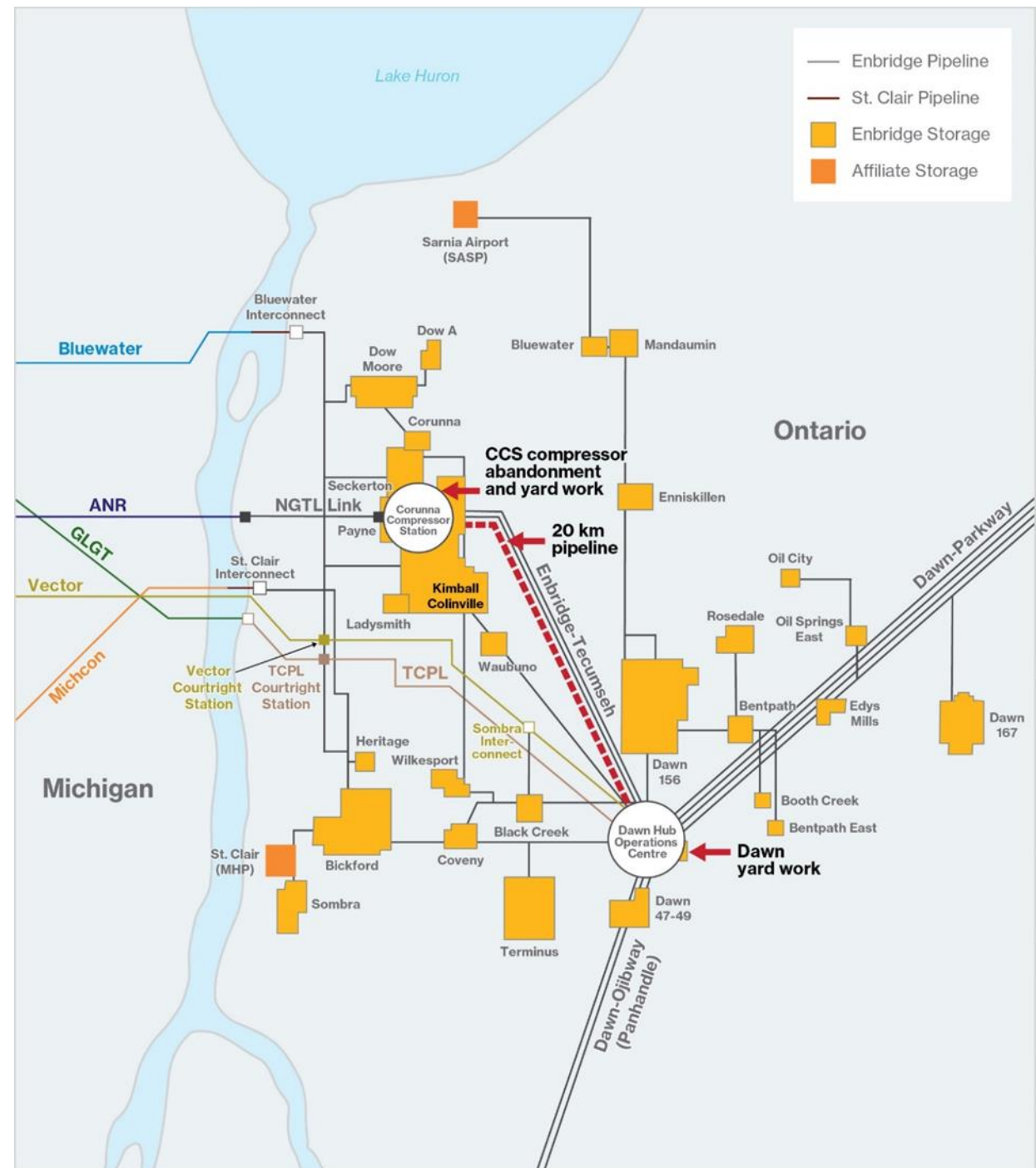
- Compressor unit downtime increasing due to unit obsolescence and lack of certain critical replacement parts, inhibiting timely repairs
- Increasing compressor unit downtime adversely impacting the reliability and safety of the integrated storage system, putting ratepayers at greater risk of shortfall
- Enbridge Gas assessed and quantified the impacts of declining reliability and intolerable safety risk using:
  - Asset Health Reviews,
  - Quantitative Risk Assessment, and
  - Reliability, Availability and Maintainability study.



The facts support retirement and abandonment of Corunna compressor units and capacity replacement

# Dawn to Corunna Replacement Project (TR7)

- Project Scope:
  - Construct ~20km NPS 36 pipeline from CCS to Dawn at 1350 psi MOP
  - Yard piping at CCS and Dawn, including Tecumseh Measurement abandonment
  - Abandon K701-K703, K705-K708 compressors at CCS
  - Replaces current capacity on a 1:1 basis
  - \$250.7 MM estimated capital cost
  - In-service November 2023



# Application Summary

- The Project is driven by system reliability, obsolescence, and employee safety concerns and is designed to maintain design day storage capacity/deliverability and equivalent injectability on a 1:1 basis
- Enbridge Gas requests the following Orders:
  - Section 90 (1) granting leave to construct the Project
  - Section 97 approving the form of Pipeline Easement agreement and form of Temporary Land Use agreement
- Upon approval, the proposed Project is planned to be constructed and placed in-service by November 2023
- The Company is committed to continuing to work with Indigenous communities, landowners and other stakeholders to address indigenous, lands, environmental, and community-related matters

# Thank you

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