



**Haris Ginis**  
Technical Manager  
Leave to Construct Applications  
Regulatory Affairs

tel 416-495-5827  
[EGIRegulatoryProceedings@enbridge.com](mailto:EGIRegulatoryProceedings@enbridge.com)  
[haris.ginis@enbridge.com](mailto:haris.ginis@enbridge.com)

**Enbridge Gas Inc.**  
50o Consumers Rd.  
North York, Ontario M2J 1P8  
Canada

October 6, 2022

**VIA EMAIL and RESS**

Nancy Marconi  
Registrar  
Ontario Energy Board  
2300 Yonge Street, 27th Floor  
Toronto, ON M4P 1E4

Dear Nancy Marconi:

**Re: Enbridge Gas Inc. (Enbridge Gas)  
Ontario Energy Board (OEB) File: EB-2022-0157  
Panhandle Regional Expansion Project  
Technical Conference Presentation**

Enclosed please find the Day 1 Technical Conference presentation of Enbridge Gas in the above noted proceeding.

Please contact the undersigned if you have any questions.

Yours truly,

(Original Digitally Signed)

Haris Ginis  
Technical Manager - Leave to Construct Applications

cc.: C. Keizer (Torys)  
Z. Cronojacki (OEB Staff)  
EB-2022-0157 (Intervenors)

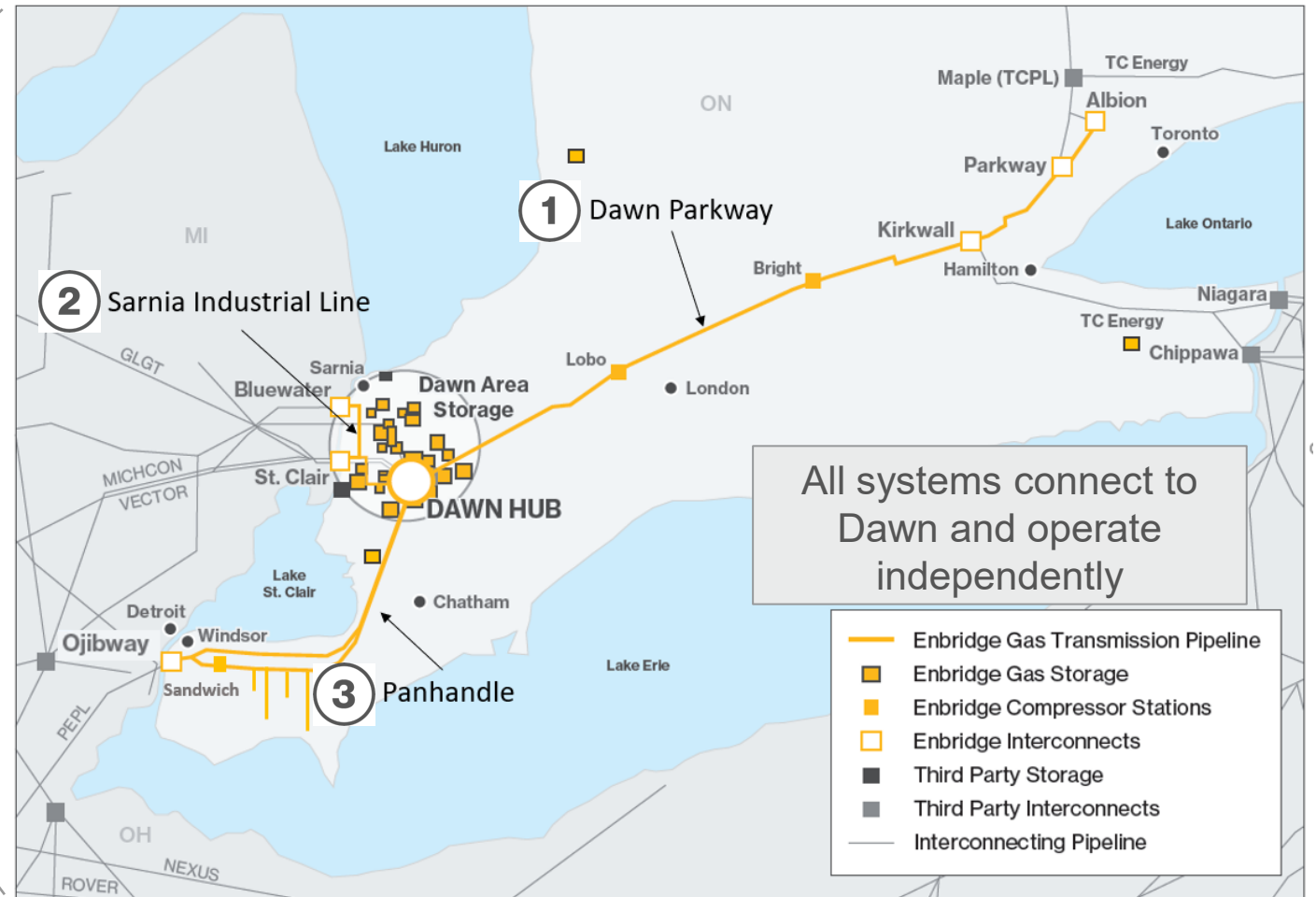
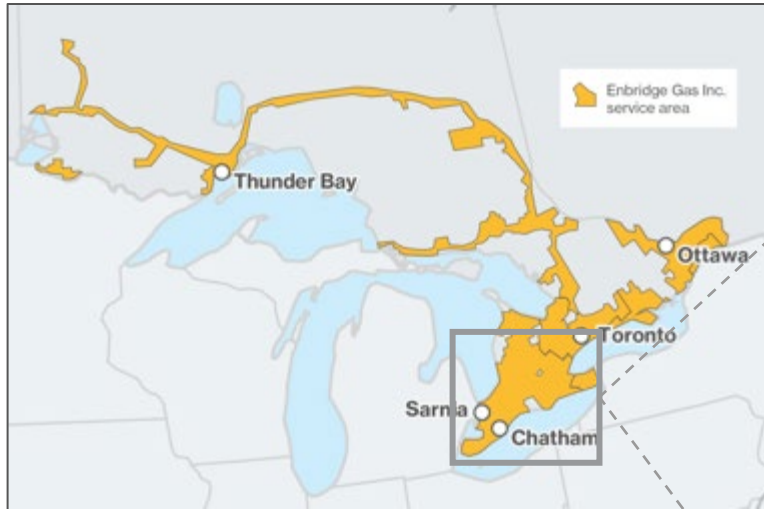
# Panhandle Regional Expansion Project

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EB-2022-0157

Technical Conference

# Enbridge Gas Inc. Transmission Systems



## ① Dawn Parkway

- East of Dawn

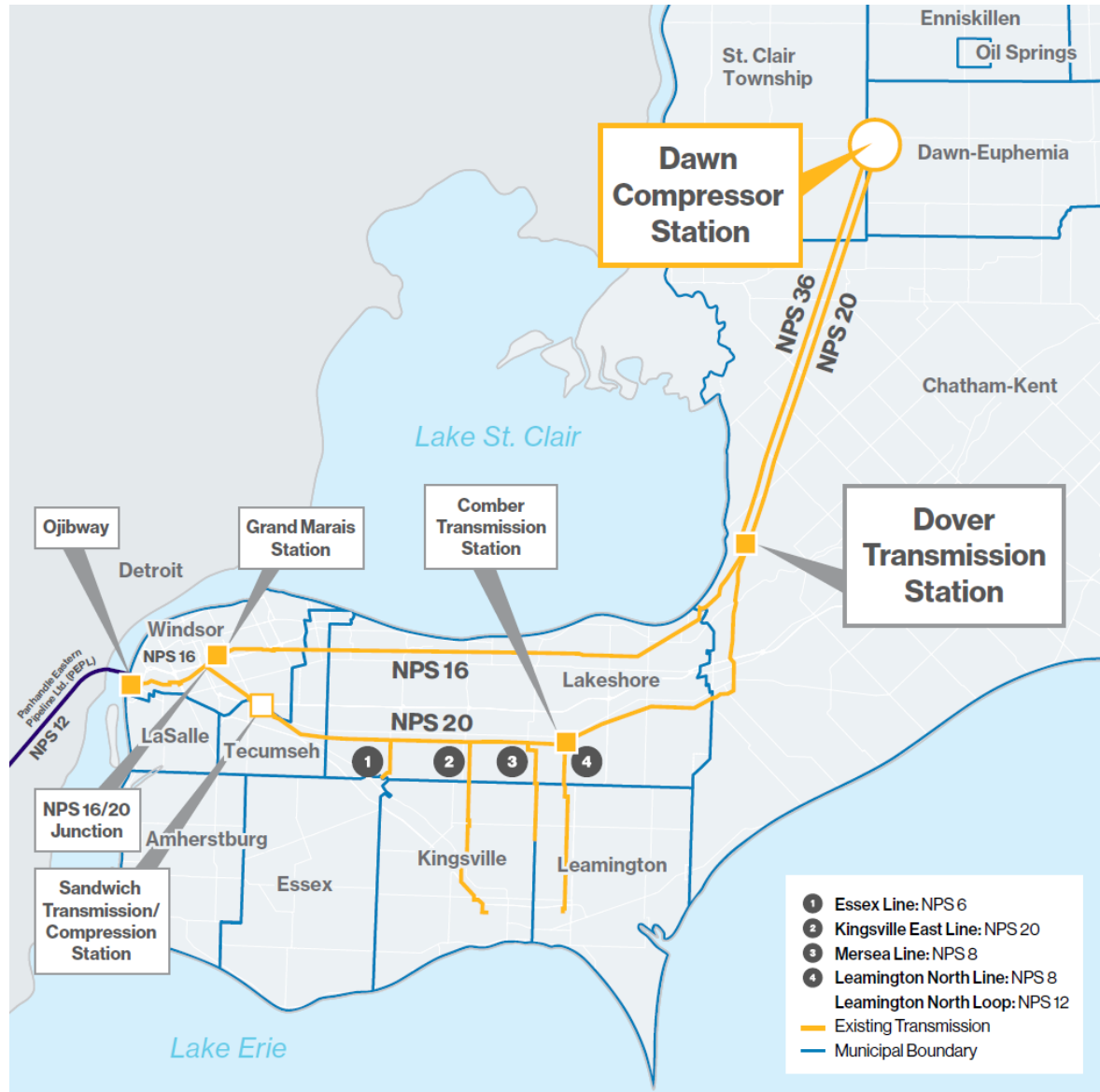
## ② Sarnia Industrial Line

- NW Lambton

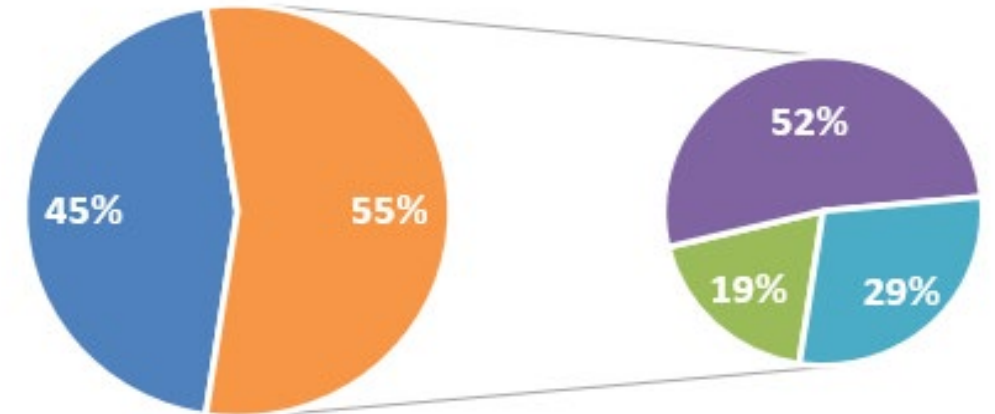
## ③ Panhandle

- Chatham-Kent County and Essex County

# Panhandle Transmission System



## Panhandle Customer Types



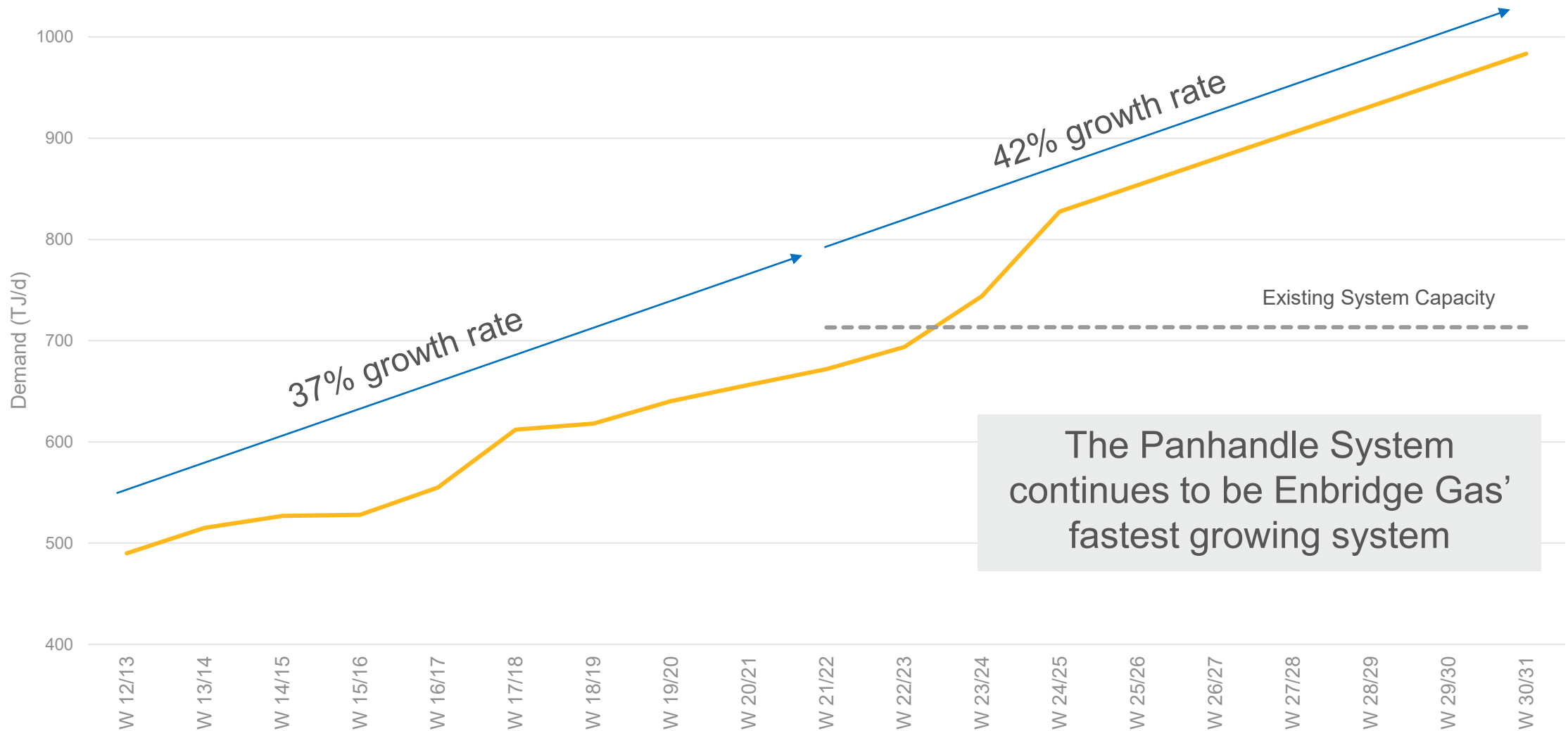
- Panhandle System General Service Market (Total)
- Panhandle System Firm Contract Market (Total)
- Large Commercial / Industrial Firm Contracts
- Greenhouse Market Firm Contracts
- Power Generation Market Firm Contracts

# Previous Panhandle System Expansions



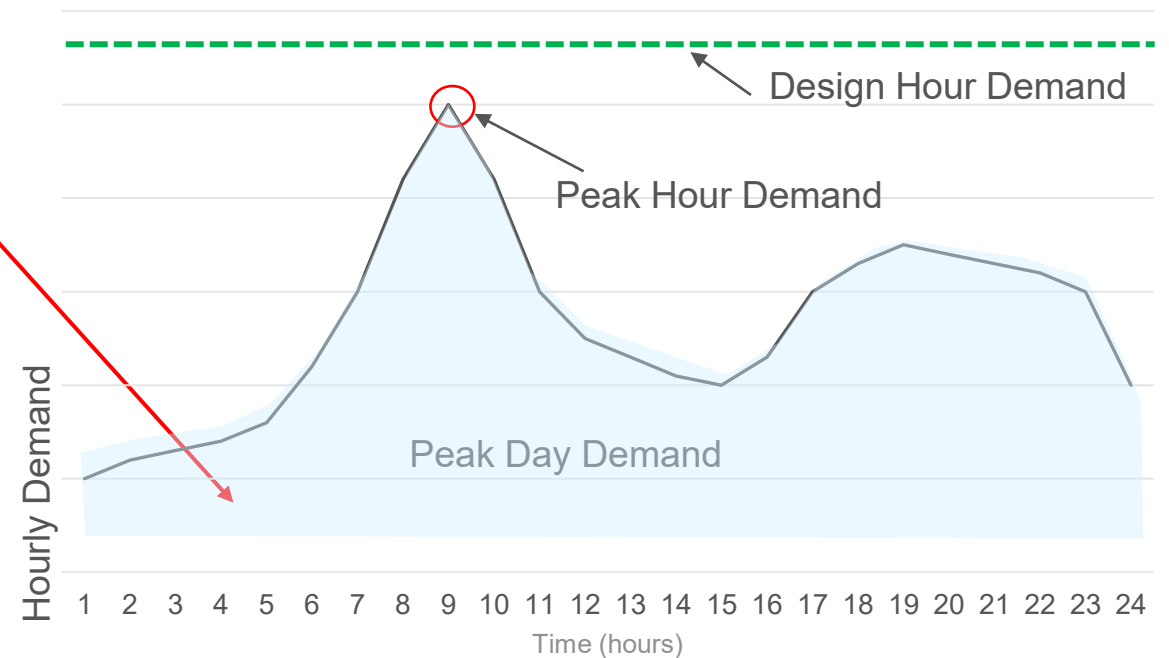
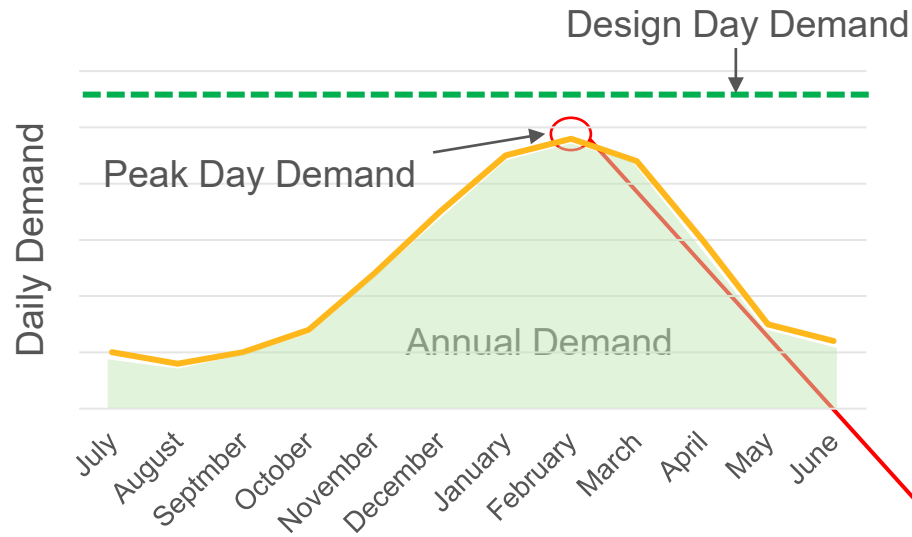
- ① 2013 NPS 12 Leamington Phase 1
- ② 2015 NPS 16 Replacement
- ③ 2016 NPS 12 Leamington Phase 2
- ④ 2017 NPS 36 Panhandle Reinforcement
- ⑤ 2019 NPS 20 Kingsville Reinforcement
- ⑥ 2019 CK Rural

# Panhandle Growing System Demand

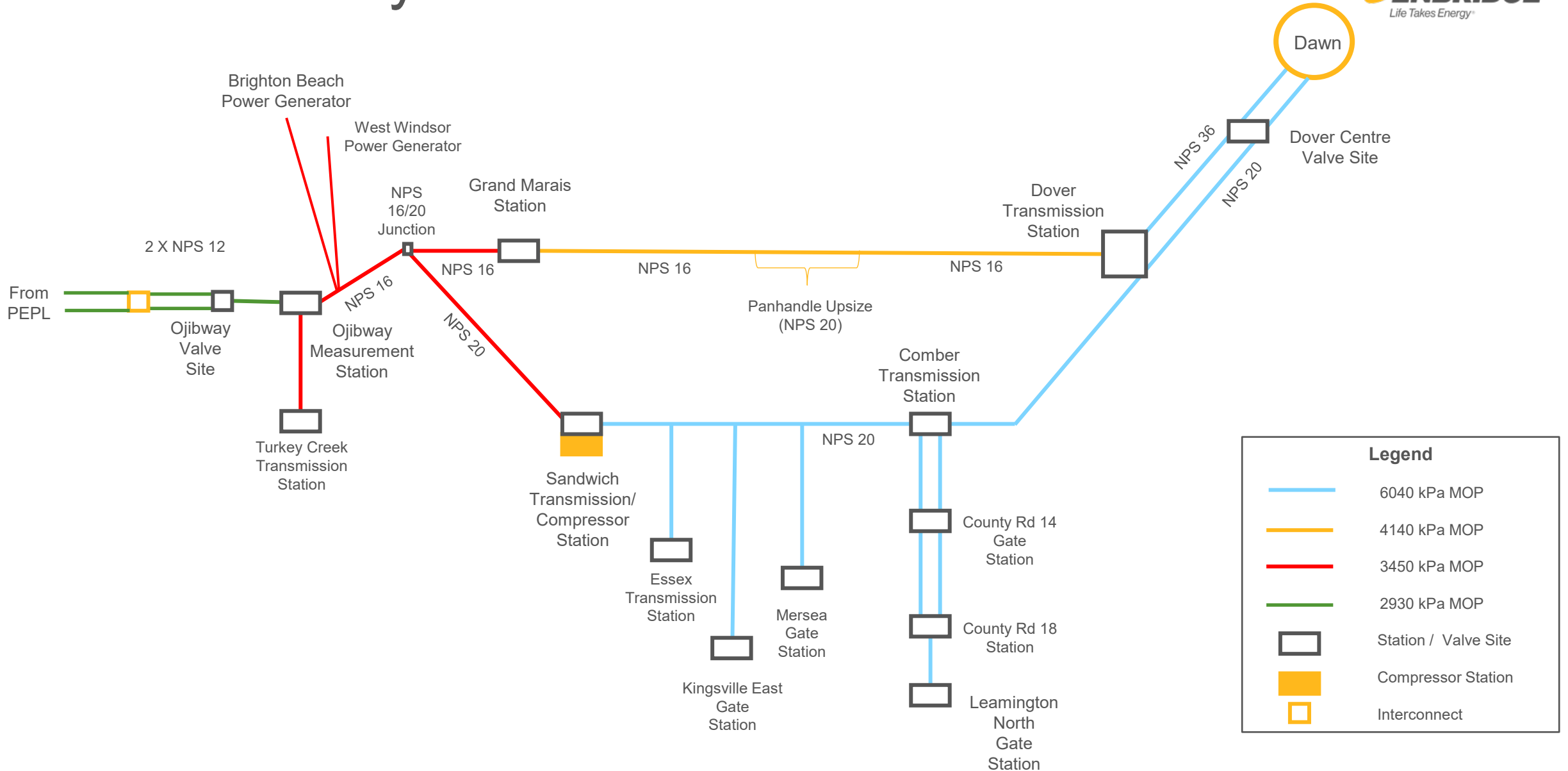


The Panhandle System continues to be Enbridge Gas' fastest growing system

# Relationship between Annual, Daily and Hourly



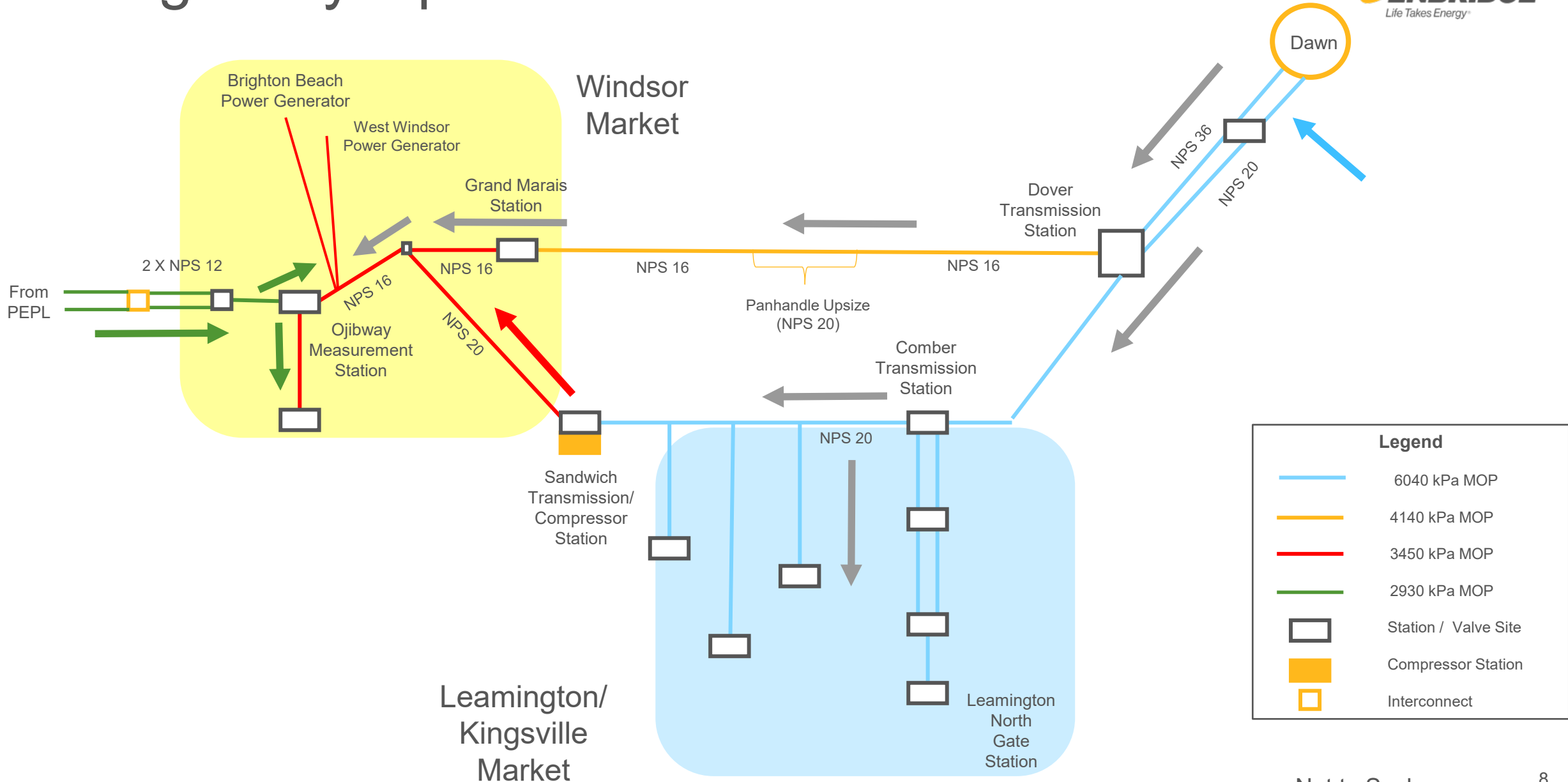
# Panhandle System Schematic



Legend	
<span style="color: blue;">—</span>	6040 kPa MOP
<span style="color: yellow;">—</span>	4140 kPa MOP
<span style="color: red;">—</span>	3450 kPa MOP
<span style="color: green;">—</span>	2930 kPa MOP
<span style="border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Station / Valve Site
<span style="background-color: yellow; display: inline-block; width: 15px; height: 10px;"></span>	Compressor Station
<span style="border: 1px solid yellow; display: inline-block; width: 10px; height: 10px;"></span>	Interconnect



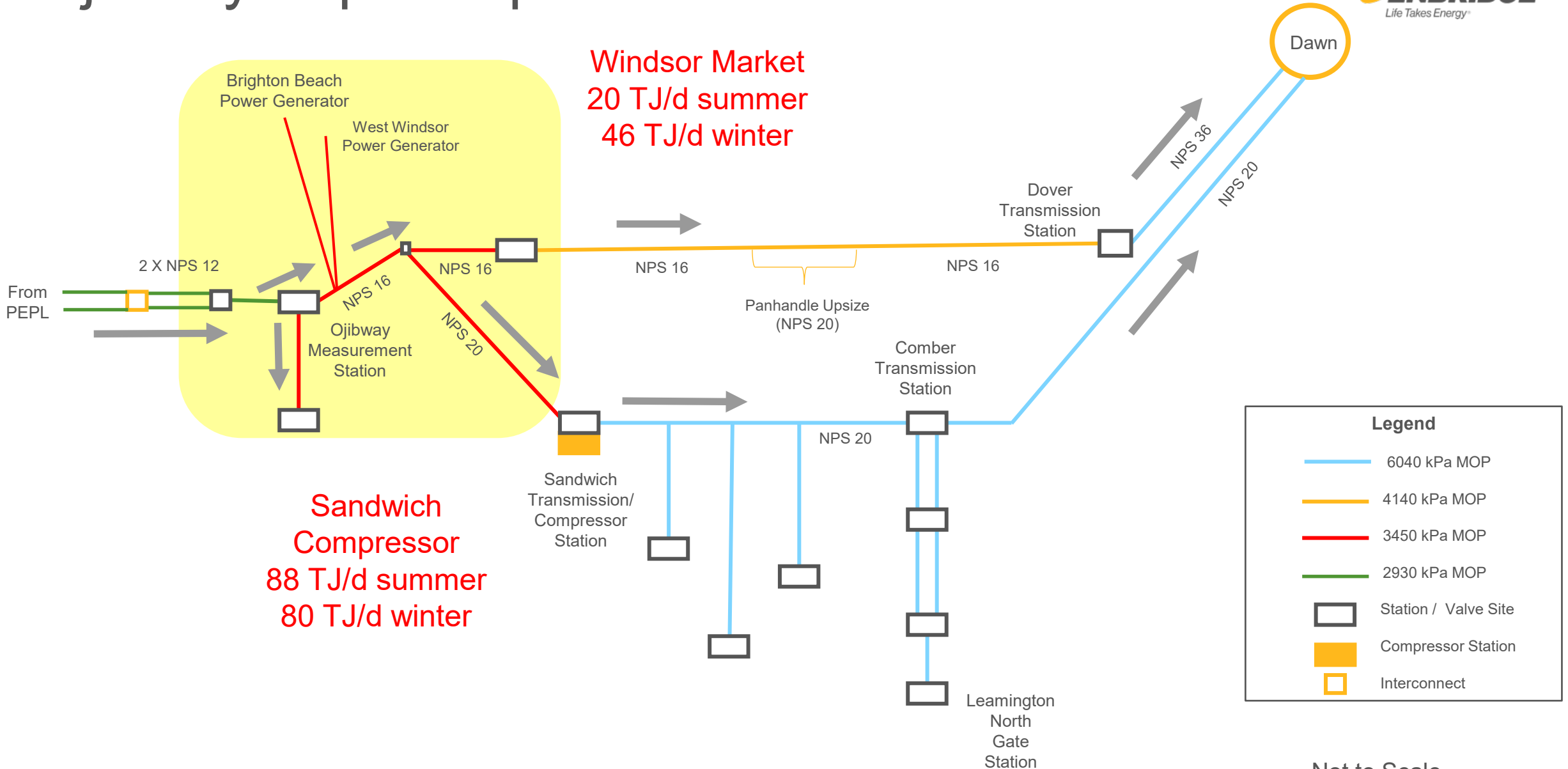
# Design Day Operation



Legend	
	6040 kPa MOP
	4140 kPa MOP
	3450 kPa MOP
	2930 kPa MOP
	Station / Valve Site
	Compressor Station
	Interconnect

Not to Scale

# Ojibway Import Operation

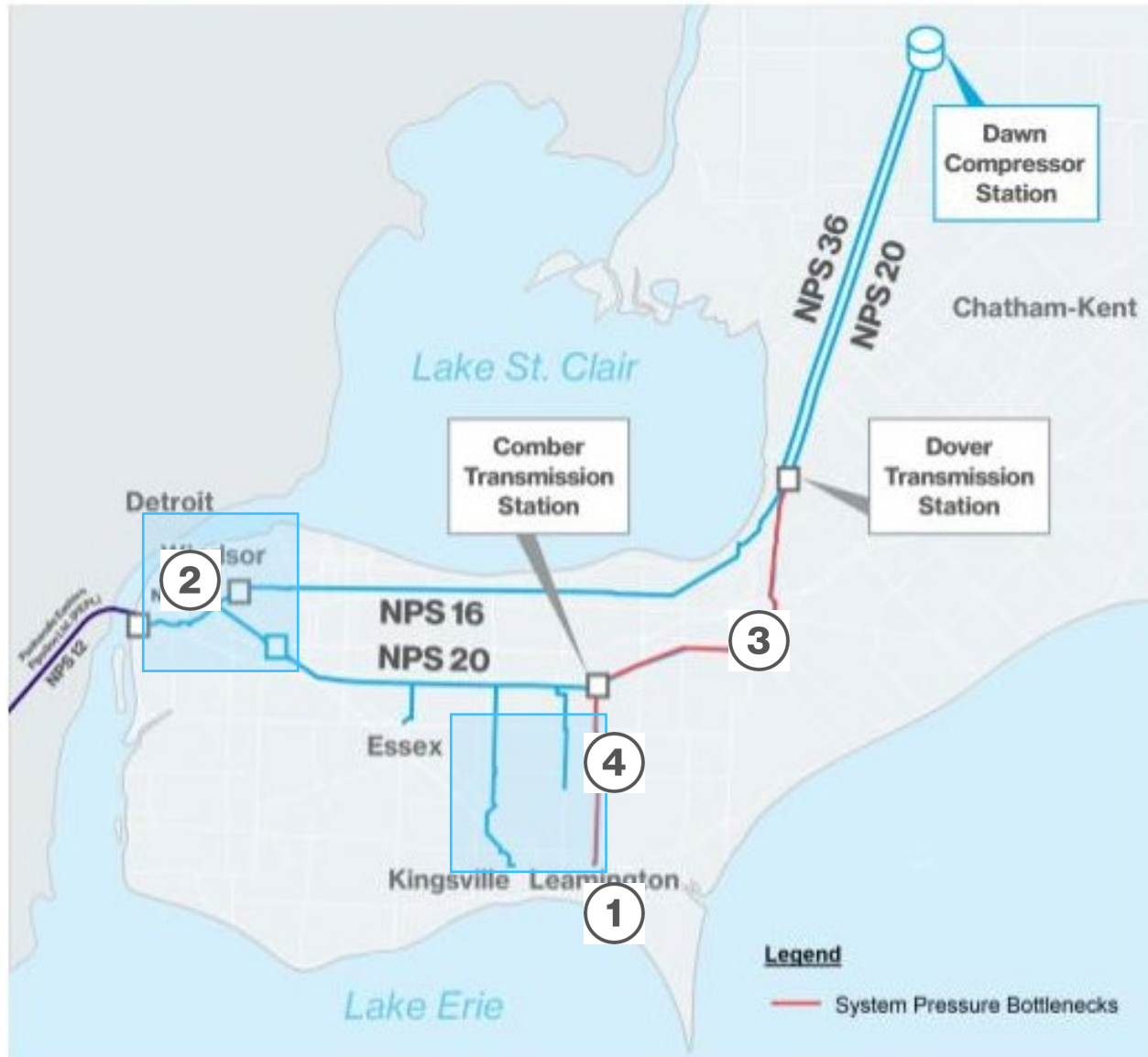


**Sandwich Compressor**  
88 TJ/d summer  
80 TJ/d winter

**Windsor Market**  
20 TJ/d summer  
46 TJ/d winter

Not to Scale

# Constraints and Bottlenecks



- Pressure Constraints

- ① Inlet to Leamington North
- ② Delivery pressure to BBGS

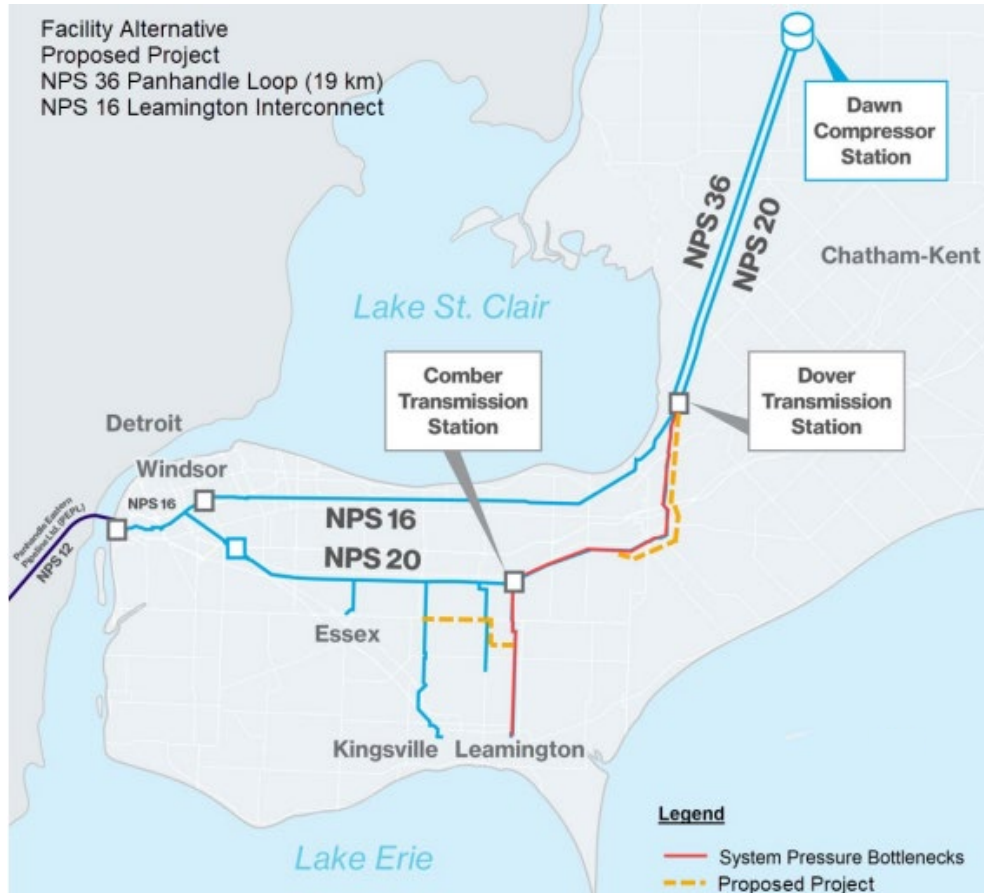
- Bottlenecks

- ③ NPS 20 Panhandle Line
  - Dover to Comber
- ④ NPS 8 & NPS 12 Leamington North Lines
  - NPS 20 Panhandle to Leamington North station

# Natural Gas Market Supply at Ojibway

- Ojibway is not a commercially traded delivery point and only has 2 customers shipping from Ojibway to Dawn today in comparison to the liquidity of many buyers and sellers at the Dawn Hub.
- It is not possible to address the 5-year system shortfall of 192 TJ/d with Ojibway deliveries alone because the volume required would greatly exceed the physical import capability at Ojibway.
  - Even if Ojibway supply was available, incremental facilities on EGI and PEPL system would be required to serve Panhandle System markets.
- Based on the Winter 2023/24 Panhandle System design forecast, a minimum of 42 TJ/d of incremental deliveries at Ojibway would be required to delay the in-service date of the proposed Project by one year.
  - This is double the capacity which is operationally available to deliver into Ojibway (21 TJ/d)

# Proposed Project



## NPS 36 Panhandle Loop

- In-service November 1, 2023

## NPS 16 Leamington Interconnect

- In-service November 1, 2024

\$314.4 MM estimated capital cost

- Transmission capacity increase of 203 TJ/d to meet the growing demands of the Panhandle System
- Staging construction in the manner proposed will allow Enbridge Gas to meet the Panhandle System design day demand while ensuring that the deployment of capital is aligned with the timing of the system shortfall.

# Thank you

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