



# ANR Monthly Customer Update

September 2019





# Safety Moment

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## School Zone Awareness

- Plan ahead to avoid rushing
- Be alert for school zones and school buses
- Always stop for school buses loading or unloading children
- Obey speed limits
- Avoid making U-turns, passing and changing lanes
- Watch out for school crossing guards and bike riders
- No texting or using cell phones



# Agenda

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## Storage Update

Jeffery Keck, Operations Planning

## Operational Update

Michael Gosselin, Gas Control & Planning

## Noms & Scheduling

DeAnna Parsell, Noms & Scheduling





# Storage Update Jeffery Keck – Operations Planning



# EIA Storage position: the big picture

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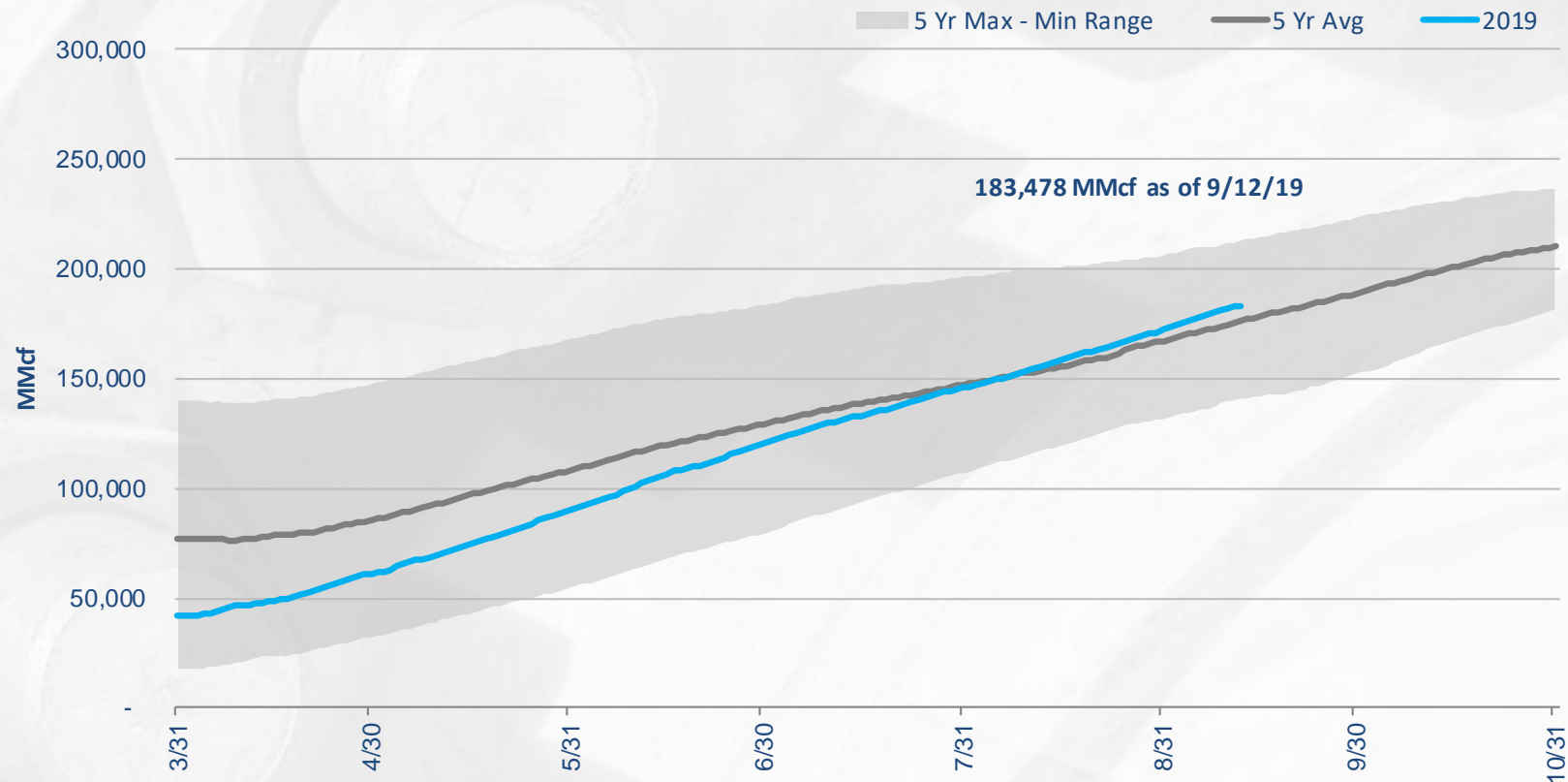
3.019 Tcf as of Friday, September 6, 2019



| Date              | ANR's Reported EIA Storage Inventory (MMcf) |
|-------------------|---|
| September 6, 2019 | 170,038                                     |
| September 7, 2018 | 129,140                                     |
| September 8, 2017 | 199,056                                     |

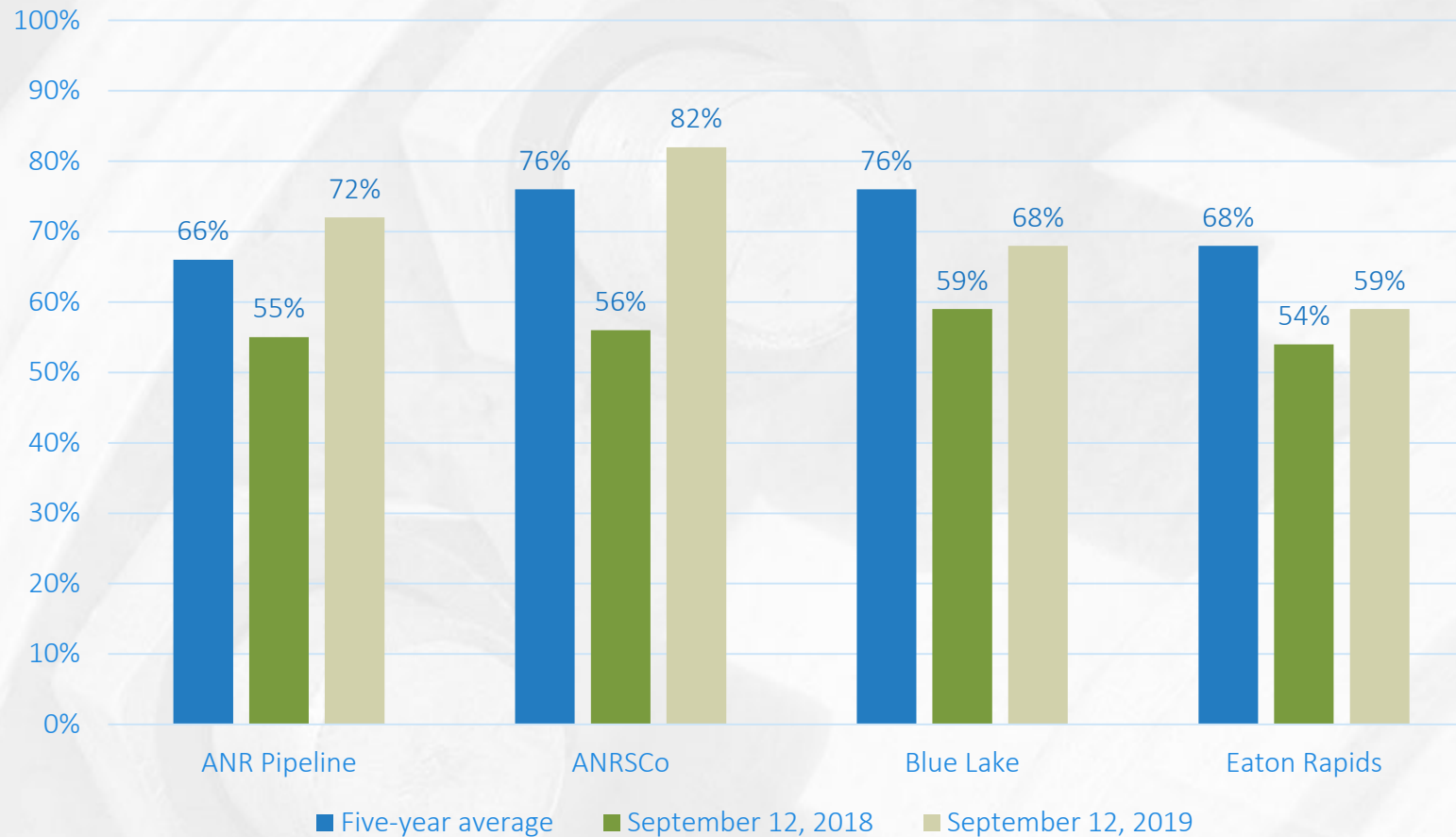
# Storage position

Working gas in underground storage compared with the five-year maximum and minimum

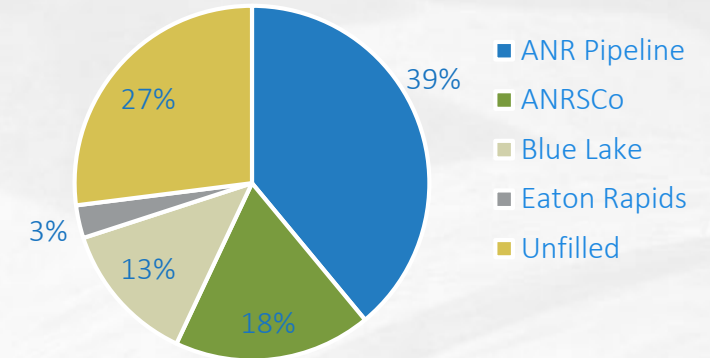


# Storage inventory – 2019 vs. 2018

Physical Inventory Positions as of September 12



% of Certificated Storage Capacity



| Percent of Storage Capacity | 2019 Percent Full | YOY Difference (2018-19) Sept. 12 |
|-----------------------------|-------------------|-----------------------------------|
| ANR Pipeline                | 72%               | 17.4%                             |
| ANRSCO                      | 82%               | 25.6%                             |
| Blue Lake                   | 68%               | 9.3%                              |
| Eaton Rapids                | 59%               | 4.5%                              |

# Storage Operations

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- The current volume in storage is above the five-year average level by about 7-Bcf. The content has made steady progress since the beginning of April when it was 34-Bcf below the five-year average.
- From July 18 – Sept. 12, storage activity averaged an injection of almost 0.9-Bcf/d, which reflects a continued strong injection pattern. While injections have been consistent, they have varied from about 600-MMcf/d up to about 1.2-Bcf/d.
- ANR has met all firm customer demand for storage activity for the entire summer.
- Capacity is 73 percent full with about 1-1/2 months left in the typical summer season.
- Based on the latest forecast, after this week it looks like temperatures will begin to moderate. With the lower temperatures, injections are expected to increase through the rest of September and into October.



# Storage Operations

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- ANR has planned its maintenance program in the storage area to minimize outages that would potentially impact customer injections through September and October. As a result, ANR believes it is positioned well to meet all firm demand for injection.
- There are currently no posted restrictions on injections other than a limit on the amount of DDS volumes that ANR will allow through the end of the injection season to ensure that it has adequate capacity for all of the firm gas expected to be injected.

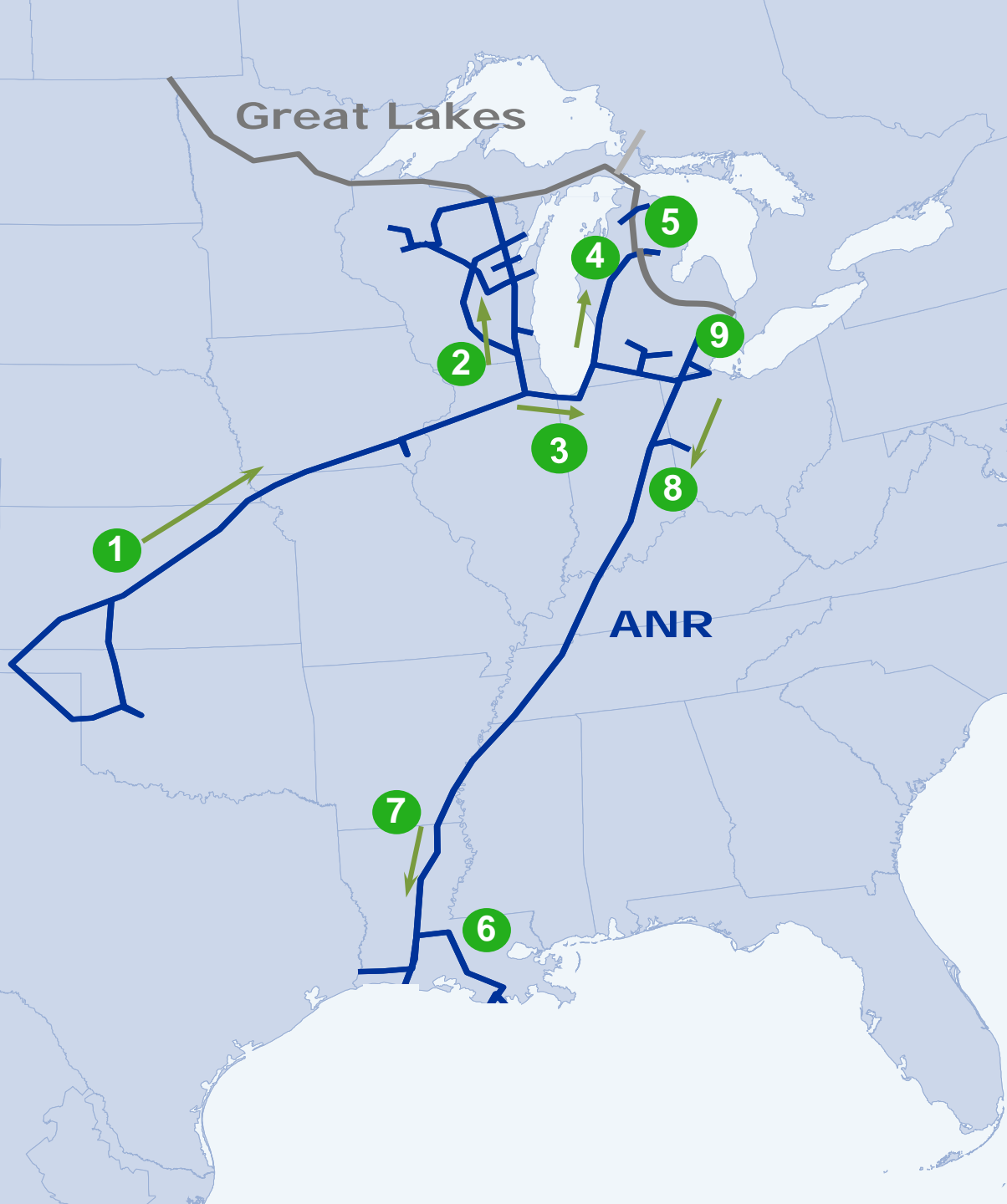


Operational Update

Michael Gosselin – Gas Control & Operations Planning



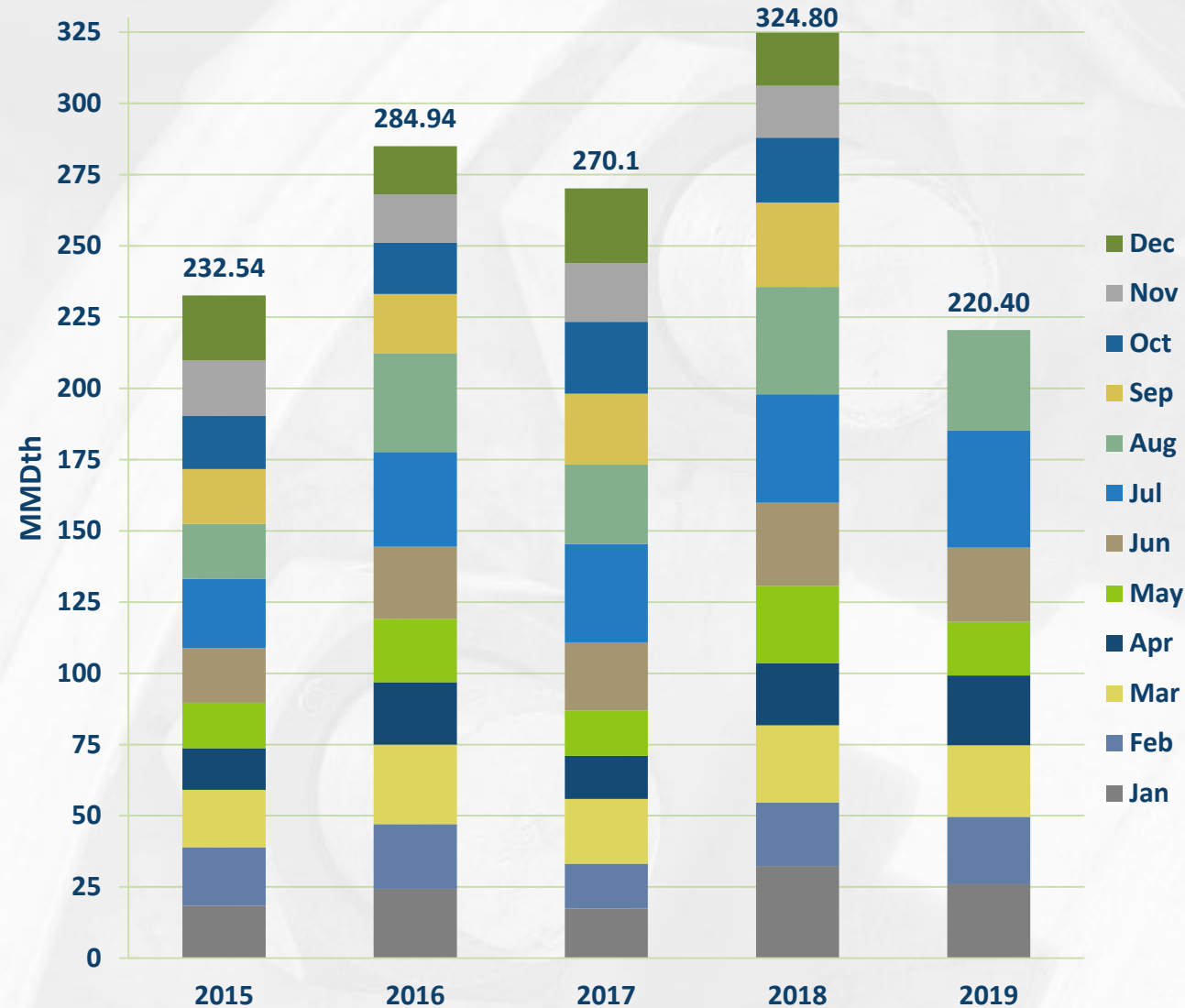
# ANR August average daily system flows



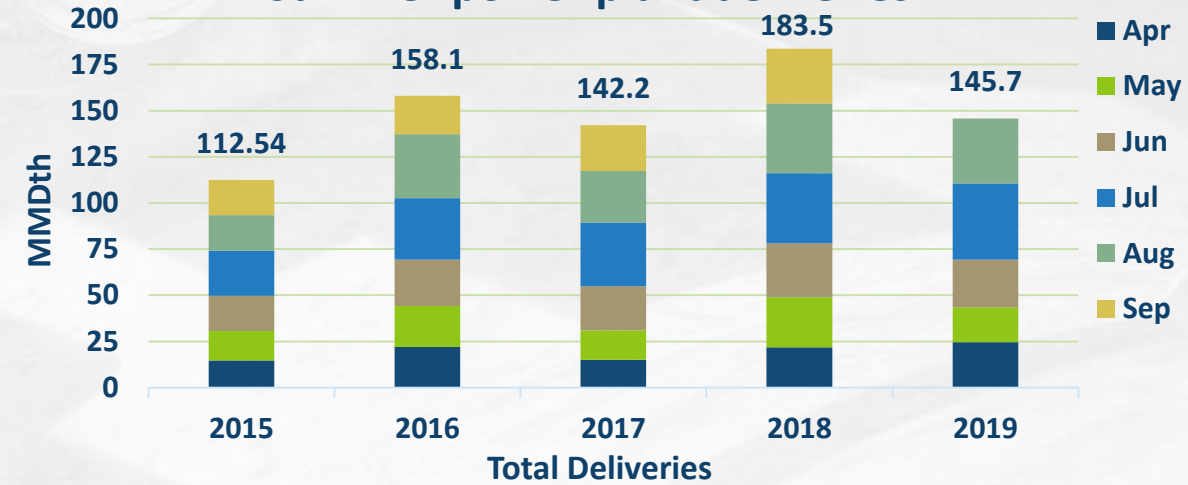
- 1 SWML Northbound flowed 98 percent full with scheduled volumes averaging 622-MDth/d.
- 2 Wisconsin deliveries averaged 525-MDth/d
- 3 Michigan Leg South through St. John Eastbound flowed an average volume of 830-MDth/d
- 4 Woolfolk averaged a northbound flow of 743-MDth/d
- 5 ANR Pipeline storage averaged an injection of 749-MDth/d
- 6 Deliveries between Eunice and Patterson averaged 894-MDth/d. Eunice Southbound averaged 99-MDth/d and deliveries to Duralde averaged 292-MMcf/d. ANR received 185-MDth/d from offshore at Patterson
- 7 Southbound flows through Jena averaged 1,086-MDth/d
- 8 REX Shelbyville receipts averaged 666-MDth/d and Westrick Interconnect averaged 1,249-MDth/d
- 9 Deliveries to MichCon at Willow Run averaged 575-MDth/d

# ANR monthly deliveries to power plants

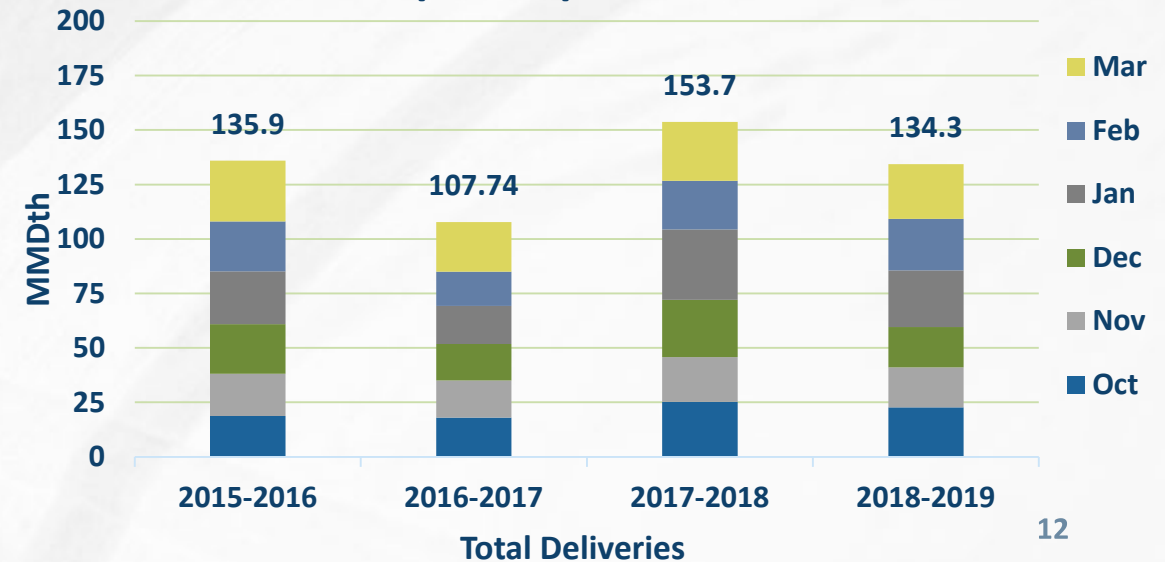
## Total monthly power plant deliveries



## Summer power plant deliveries

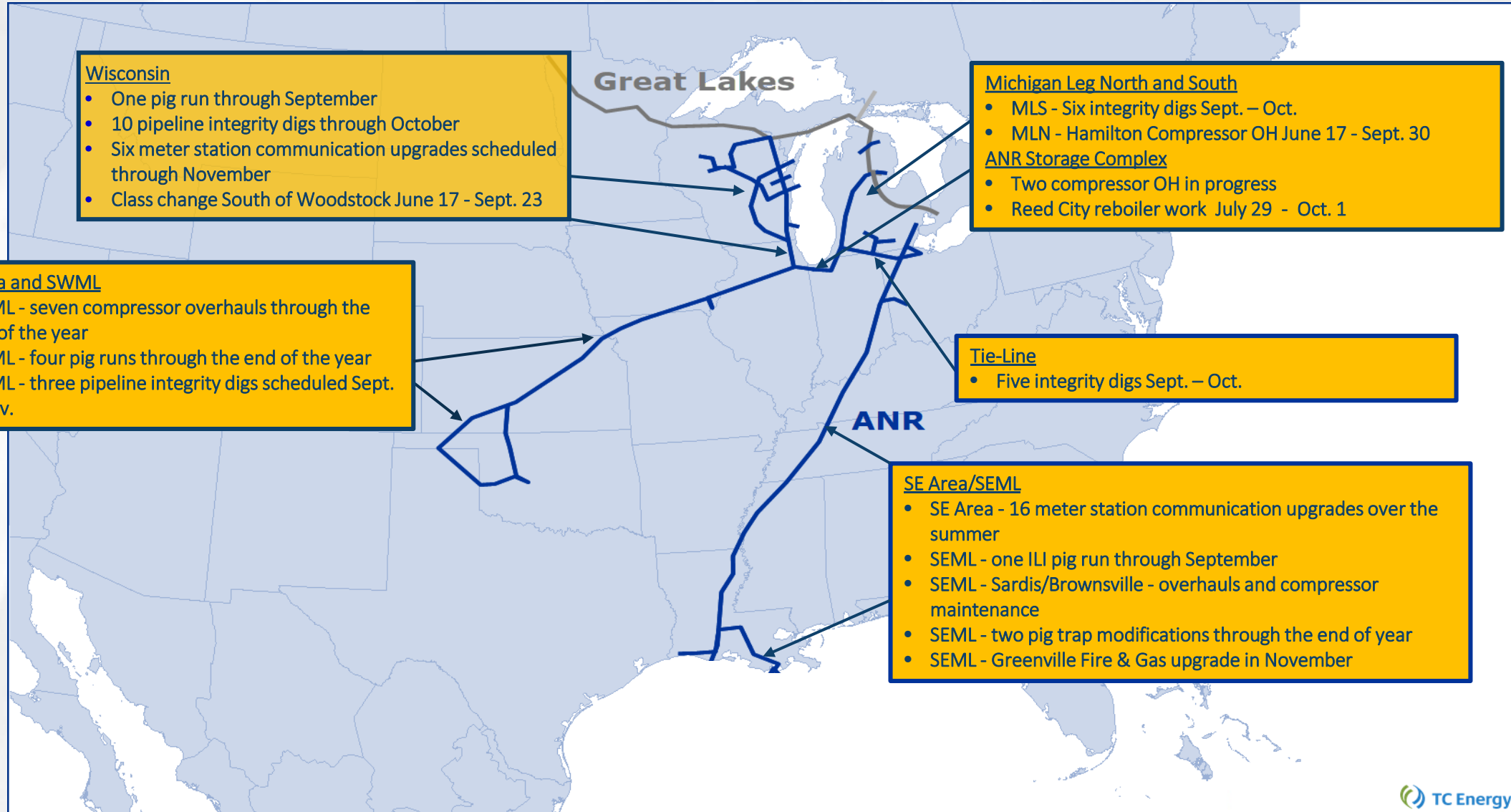


## Winter power plant deliveries





# 2019 ANR Mainline maintenance projects



# ANR posted capacity impacts – August 2019

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## Red River (Rec) Int (LOC #185837) CN ID #9400

Firm Primary Only Sept. 10 – Oct. 10

## SWML Northbound (LOC#226630) CN ID #9410

70-MMcf/d (leaving 619-MMcf/d available) Sept. 13 – 16

35-MMcf/d (leaving 654-MMcf/d available) Sept. 17 – 22

100-MMcf/d (leaving 589-MMcf/d available) Sept. 23

130-MMcf/d (leaving 559-MMcf/d available) Sept. 24 – 26

100-MMcf/d (leaving 589-MMcf/d available) Sept. 27 – 30

## St. John Eastbound (LOC ID #226633) PSO ID #9382

450-MMcf/d (leaving 809-MMcf/d available) Sept. 16 – 21

## Bridgman Northbound (LOC #226632) PSO ID #9397

470-MMcf/d (leaving 1,131-MMcf/d available) Sept. 16 – 21

325-MMcf/d (leaving 1,276-MMcf/d available) Sept. 22 – 30



# ANR posted capacity impacts – August 2019

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## Defiance Westbound (LOC #505605) CN ID #9409

120-MMcf/d (leaving 564-MMcf/d available) Sept. 14 – 29

115-MMcf/d (leaving 569-MMcf/d available) Sept. 30 – Oct. 6

115-MMcf/d (leaving 569-MMcf/d available) Oct. 12 – 19

125-MMcf/d (leaving 559-MMcf/d available) Oct. 21 – 29

## Cottage Grove Southbound (LOC #505614) PSO ID #9349

100-MMcf/d (leaving 1049-MMcf/d available) August 16 – Oct. 31

## Jena Southbound (LOC #9505489) PSO ID #9418

95-MMcf/d (leaving 1085-MMcf/d available) Sept. 16 – 20

95-MMcf/d (leaving 1085-MMcf/d available) Oct. 1 – 8

## Riverway (to Bridgeline) (LOC # 42593) CN ID #9385

St. Martinville E to LRC (LOC #218192)


Grand Chenier/LRC (LOC #7695)

Firm Primary only August 29 – Sept. 20

# Outage postings

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- Service impacts are estimates. Actual nominations, markets, weather and pipeline conditions determine any level of curtailments.
- Projects may be added, altered, delayed or cancelled. Emergent work cannot be planned and will happen from time to time.
- Notice of such planned work, including additions or changes, will be provided via a posting under the Planned Service Outage (PSO) category in GEMS. Emergent work will be posted under the Critical Notice category as soon as possible.



# ANR Nominations & Scheduling

DeAnna Parsell – Noms and Scheduling



# Wisconsin area constraints

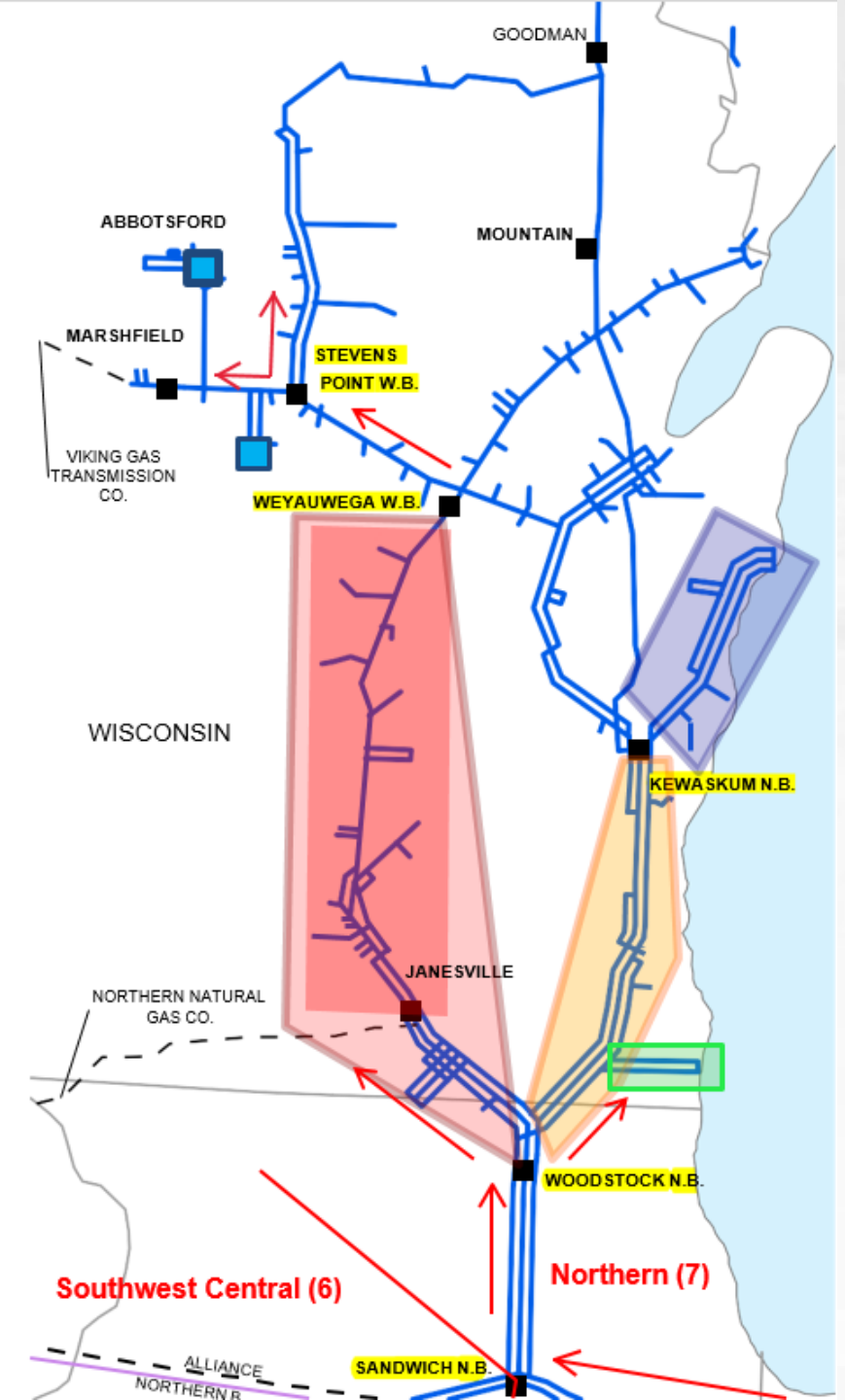
## Flow Throughs:

- Sandwich Northbound - 2,248,260 dth
- Woodstock Northbound - 1,998,674 dth
- Kewaskum Northbound - 1,244,389 dth
- Weyauwega Westbound - 326,253 dth
- Stevens Point Westbound - 279,821 dth

## Groups and Points:

- Two Rivers Lateral (Group) - 97,171 dth
- Madison Lateral (Group) - 548,142 dth
- Madison Lateral North (Group) - 302,265 dth
- Milwaukee Lateral (Group) - 419,756 dth
- Racine Lateral (Group) - 109,365 dth
- Wisconsin Rapids (Point) - TBD
- Abbotsford/Edgar (Point) - TBD

Disclaimer: Operational Capacities are subject to change based on operational conditions and market demand.



# GEMS updates – Pooling/Capacity Allocation

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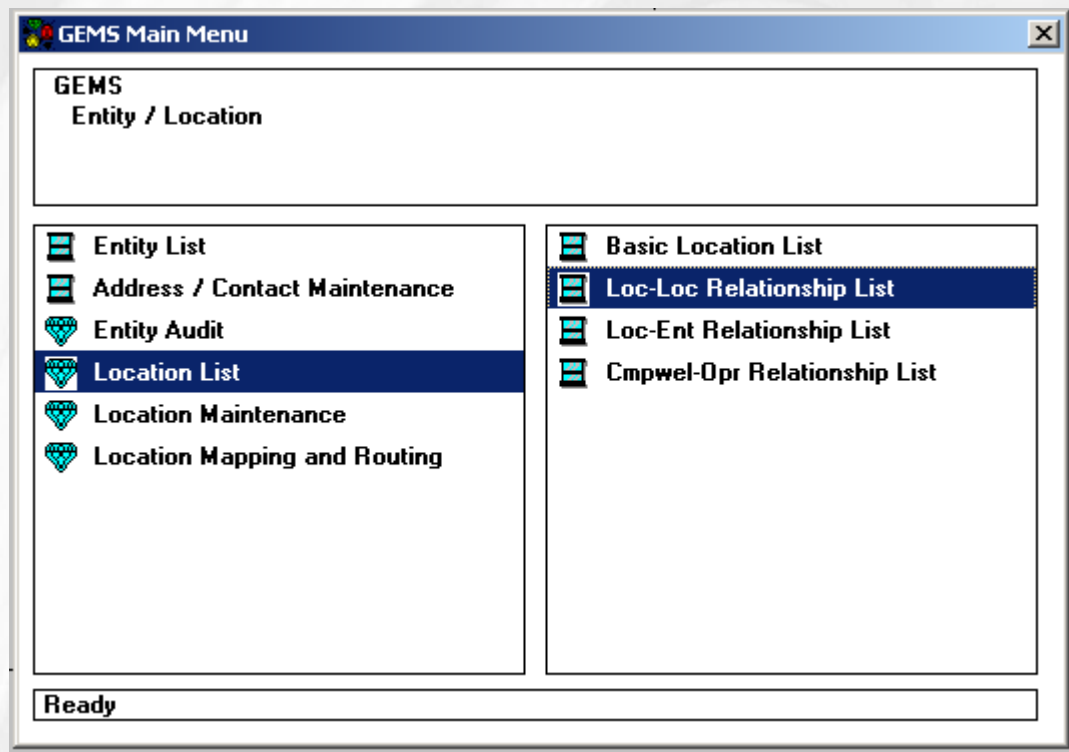
Upcoming GEMS changes to the Pooling/Capacity Allocation process will address the following issues based on customer feedback.

- Customer provided ranks for Supply, PMK and Market Noms will now be utilized during the Pool Balancing process for nominations reduced due to Pipeline Capacity Constraints (PCC reduction reason code).
- Cut codes on the PMK Noms will always show CBL-D. PMK Noms will no longer receive PCC-HS reduction reason codes. Please do not reference your PMK Noms to determine the reason for your reductions. Please reference your Supply or Market Nom reduction reason codes.
- Previously scheduled Pooling Service Nominations will not be further reduced during bumpable intraday cycles unless derived or reprioritized by the customer as interruptible.
- Previously scheduled Pooling Service Nominations will not be further reduced during the non-bumpable ID3 cycle.

Submission of Regular & PMK Nominations and the Pool Balancing Summary screen remain unchanged.

# Gems navigation – to view locations within Grp Points

- Entity/Location – Location List – Loc-Loc Relationship List





# Madison Lateral – Grp Point example

- Can search by Loc ID or Name (for locations with same name use ID)

**GEMS PROD - ANR PIPELINE COMPANY**

File Edit View Actions Options Window Help

Loc-Loc Relationship List

Retrieve Criteria:

Relationship Type: CAPGRP Loc ID: 261192 Name: Effective Date: From/To: Either

Location Relationship List Row 1 of 35

| Rltshp Type | From Loc | From Loc Name   | To Loc | To Loc Name      | Effective Start | Effective End | Active Status |
|-------------|----------|-----------------|--------|------------------|-----------------|---------------|---------------|
| CAPGRP      | 261192   | MADISON LATERAL | 28670  | RANDOLPH         | 7/1/1999        | 12/31/2049    | ✗             |
| CAPGRP      | 261192   | MADISON LATERAL | 28672  | COLUMBUS         | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28676  | MCFARLAND        | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28679  | SUN PRAIRIE      | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28682  | WATERLOO         | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28684  | STOUGHTON        | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28765  | PRINCETON WI     | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28766  | OXFORD           | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28806  | EDGERTON         | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28807  | INDIANFORD       | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28811  | FORT ATKINSON    | 7/1/1999        | 12/31/2049    | ☒             |
| CAPGRP      | 261192   | MADISON LATERAL | 28814  | SOUTH JANESVILLE | 7/1/1999        | 12/31/2049    | ☒             |

The background of the slide is a faded, high-angle photograph of mechanical components. It shows several large, hexagonal bolts or nuts arranged in a circular pattern, likely part of a large gear or a heavy-duty flange. The lighting is soft, creating subtle shadows and highlights on the metallic surfaces.

# Questions?

# ANR customer assistance

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For further customer assistance concerning scheduling priorities related to your specific firm service agreement(s), firm service rights and features, GEMS new user training, virtual and face-to-face meetings, etc., please contact the ANR Noms & Scheduling Team:

Toll Free: 1-800-827-5267

Group Email: [ANR\\_Noms\\_Scheduling@tcenergy.com](mailto:ANR_Noms_Scheduling@tcenergy.com)

Web address for the ANRPL Tariff: [www.anrebb.transcanada.com](http://www.anrebb.transcanada.com)