

### **Vector Pipeline**

Customer Meeting Scottsdale, Arizona October 10, 2019



### Pete Cianci President

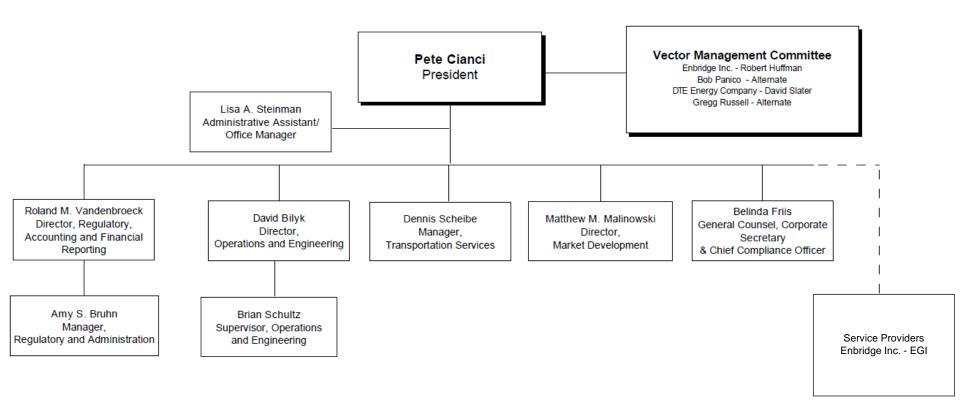


#### **Meeting Agenda**

- Pete Welcome and Organizational Changes
- Matt
  - Project and System Update
  - What's Next
- Dennis
  - Capacity Postings
  - Gas Purchases/Sales
  - QuickNom Update



#### Organization





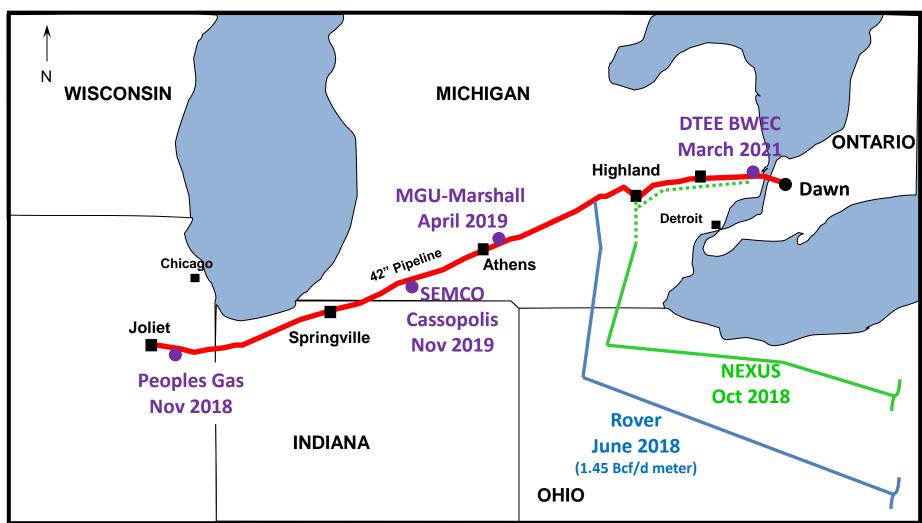
### Matt Malinowski Director, Market Development



### **Projects**



#### **New Interconnections**





#### **Rover Interconnect**

- New receipt near Howell, Michigan
- Meter Station Capacity-1.45 Bcf/d
- Began flowing gas June 2018
- Final ramp-up to 950 MDth/d on Nov. 1, 2019
  - Peak volumes over 1.0 Bcf/d
  - 2019 YTD average 963 MDth/d



#### **Milford Junction**

- Modifications to allow the Vector-DTE Gas interconnection at Milford, Michigan to be bidirectional allowing for receipt of NEXUS Supply
- Installed 0.6 miles, 30-inch "jumper line" to allow lower pressure receipts to flow into the inlet of Vector's Highland Compressor
- First flow in late 2018
- Allows flexibility to sell backhauls with Milford as Primary Receipt Point



#### **Peoples Interconnect**

- Peoples Gas Smith Road Interconnect
  - New delivery near Manhattan, Illinois with Peoples Gas Light and Coke
  - 280 MDth/d metering capacity
  - Predominantly winter-use for supply and redelivery of Michigan storage gas
  - In-service Fourth Quarter 2018



#### **MGU** Interconnection

- MGU Marshall Interconnect
  - New delivery near Marshall, Michigan with Michigan Gas Utilities
  - 35 MDth/d metering capacity
  - MGU will primarily use to fill its storage field in the summer months
  - Annual potential for MGU transport customers into Coldwater market
  - In-service April 2019



#### **SEMCO Interconnection**

- SEMCO Cassopolis Interconnect
  - New delivery near Cassopolis located in Southwest Michigan
  - 12 MDth/d metering capacity
  - SEMCO will use to serve this market
  - In-service November 2019



# DTEE Interconnect (Proposed)

- DTE Electric Bluewater Energy Center (DTEE-BWEC)
  - New 1100 MW powerplant to replace coal
  - Meters and short lateral to be constructed near St. Clair, Michigan
  - Receipt meters from Vector 42-inch mainline and DTE Gas
  - 180 MDth/d load
  - Test gas 2021
  - Plant commercial in-service 2022



### **Potential Projects**

- Chicago/Northern Indiana Markets
  - Exploring growth within this region
- Continue pursuing LDC Interconnects
- New powerplants
  - Phase 2 SJEC (MISO)
  - 3 other announced developments close to our mainline
  - Coal retirements in Michigan & Indiana



#### **Springville Compressor**

- Two existing 15,000 hp Solar Mars power turbines
- Bi-directional capability installed
- New impellers on both gas compressors to handle wide range of flows
- Modified piping for lower flows (recycle loops)



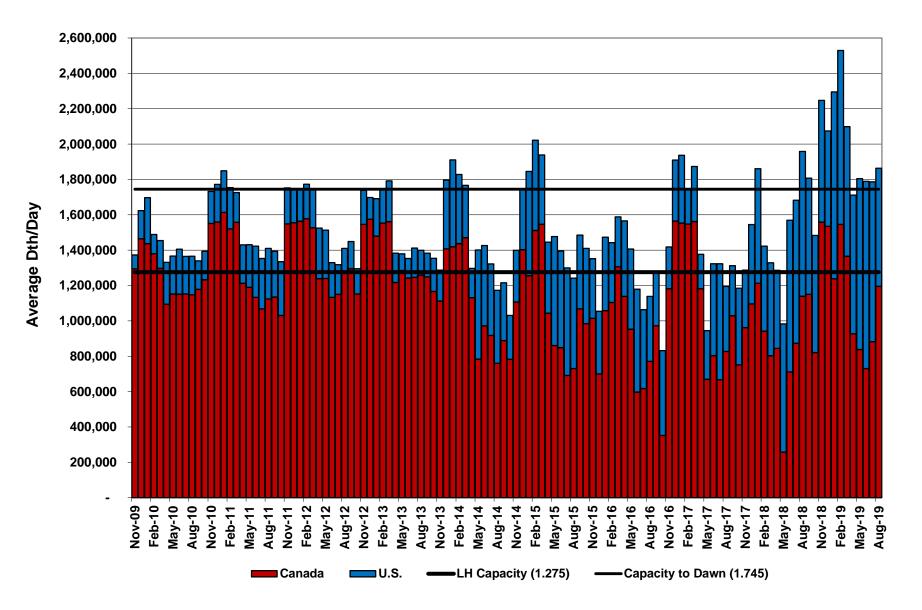
Major construction completed January 2019



### **Recent Operations**

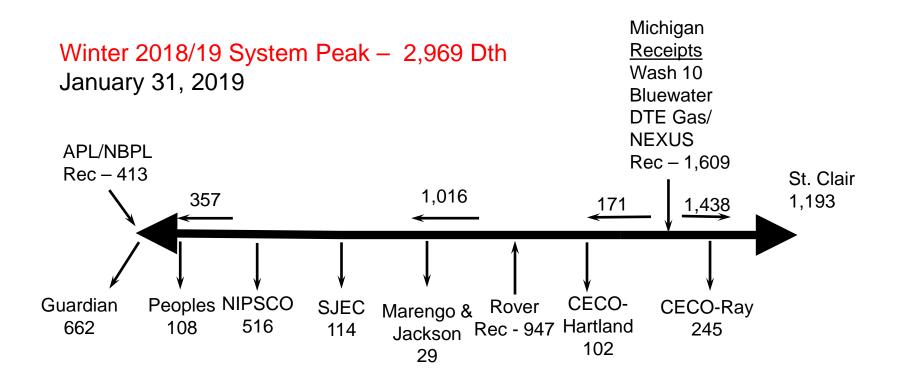
#### **Scheduled Deliveries**

(Includes Longhaul, Shorthaul, Backhaul, Lease and Segmentation)





#### Winter 2018/19

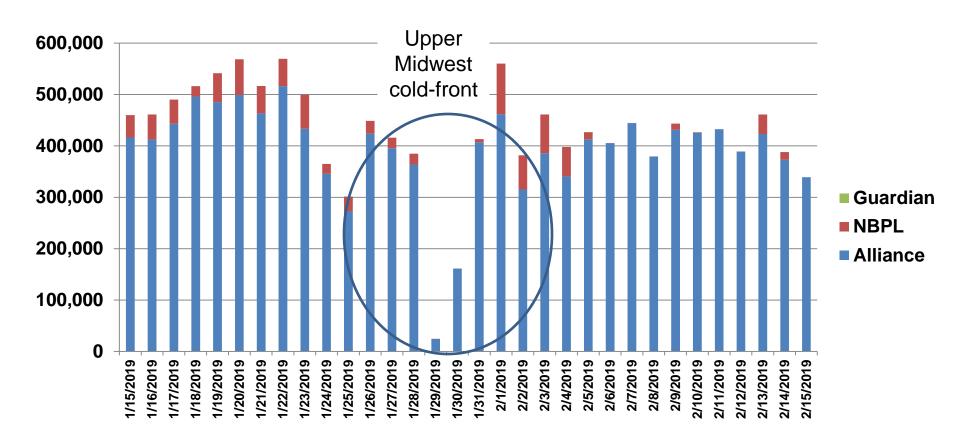


Temperature Range – S.E. Mich. (White Lake): -13°F to -1°F



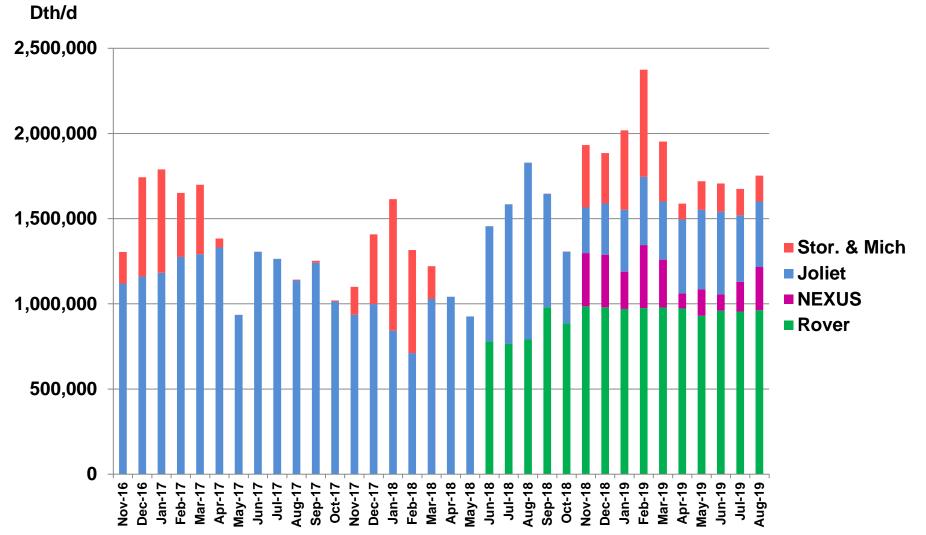
# **Joliet Receipts Jan 15, 2019 to Feb 15, 2019**

Dth/d



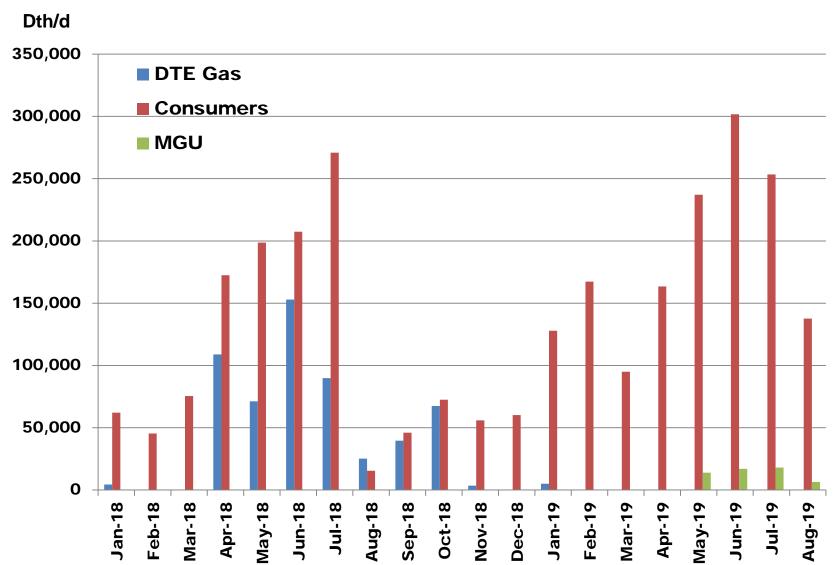


# Receipts from Pipelines and Storage





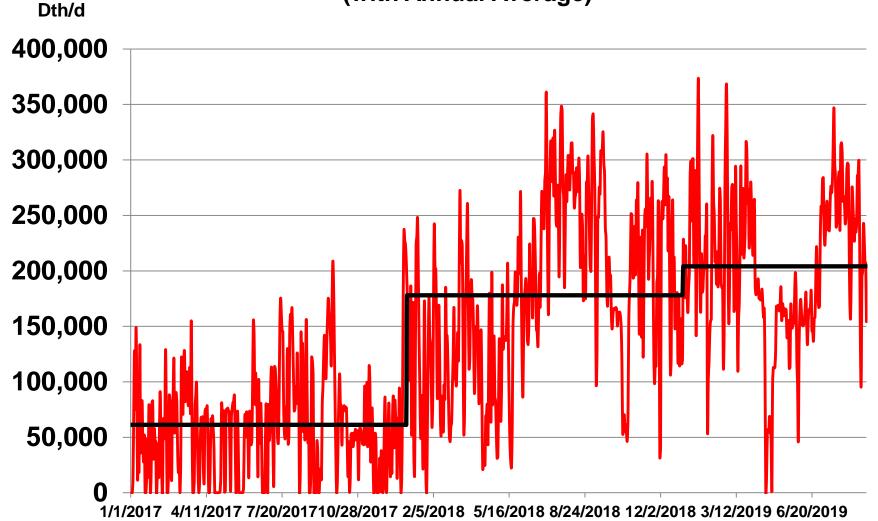
#### **Net Deliveries to Michigan LDCs**





### Deliveries to US and Canadian Power plants

(with Annual Average)





#### **Historical BTU Content**

(Btu/cf @ St. Clair)

<u>Year</u>	Btu/cf	
2012	1026	
2013	1035	
2014	1045	
2015	1054	
2016	1054	
2017	1051	
2018	1065	
YTD	1068	



#### **BTU Issues**

- Vector's Tariff has a maximum BTU of 1100 BTU per standard cubic foot
- As BTU's continue to climb, Vector needs to monitor all receipts for out-of-spec gas
- Certain interconnecting supply pipelines have much higher BTU limits (or none)
- Reduced volumes on west end of the pipeline may cause certain supply points to be shut in by Vector from time to time if Vector cannot blend gas down
- NBPL no explicit BTU limit in their Tariff



#### **Turbine Advisory**

- In August a Product Safety Advisory was issued for one engine at Highland and one at Washington
- Vector immediately took the units offline Critical Notices were issued.
- IT-1 was restricted to zero however no Firm services were impacted
- Both stations are now back in service new or replacement equipment has been installed



#### What's Next for Vector



#### **Future Maintenance**

- Vector is required to perform its seven-year inline inspections in 2020 per PHMSA regulations
- Plan is to perform work in late spring (April and May)
- Specific dates will be posted as the details for this job become known. Goal is to post the specific dates late in fourth quarter of 2019

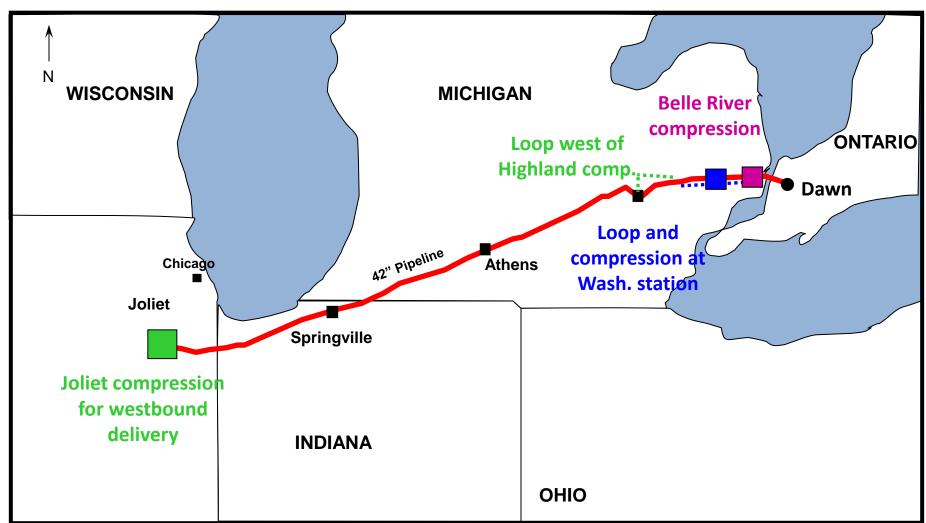


#### **Expansion**

- Michigan-Dawn and Michigan-Chicago spreads are strong during the winter months
- Eastbound Expansions:
  - Vector can expand eastbound capacity from MI storage,
     Michigan supply or Joliet to Dawn with the addition of loop and compression.
  - These same expansions also increase our westbound capacity (MI Storage to Joliet markets)
- Compression can be modified or added at Joliet to deliver MI supply / MI storage services to markets west of Chicago (Northern Border markets)



#### **Expansion Facilities**

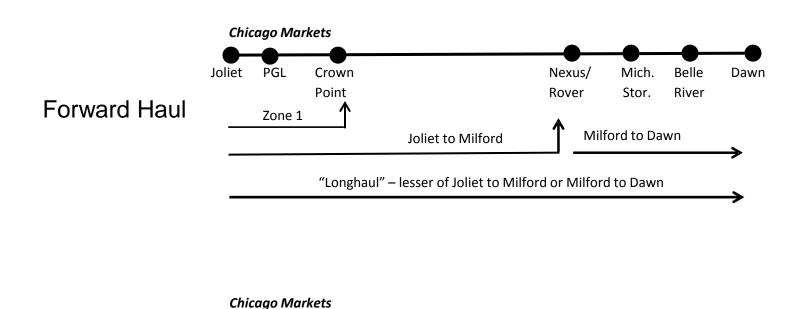




# **Dennis Scheibe**Manager, Transportation Services



# Capacity Posting by Segments



**Back Haul** 



# Vector Pipeline<sup>™</sup>

#### **Example of Capacity Posting**

#### PROJECTED IT AVAILABILITY

#### August 5, 2019

Note: Vector's "Traditional Joliet to Dawn" longhaul availability can be determined by using the lesser of the "Joliet to Milford Junction" or the "Rover to Dawn" segment.

Projected IT-1 by segment available August 5, 2019 (current day):

Joliet to Crown Point 1,003,272

Joliet to Milford Junction 335,569

Rover to Dawn 110,000

Milford Junction to Joliet 1,424,375

Projected IT-1 by segment available August 6, 2019:

Joliet to Crown Point 981,956

• Joliet to Milford Junction 98,251

Rover to Dawn 92,210

Milford Junction to Joliet 1,290,495



### Select Capacity Availability Winter 2019/20

**Backhauls to Joliet** 

<u>Available</u>

from Storage

Sold out!

from Milford

70,000

**Delivery Point** 

<u>Available</u>

**Crown Point** 

515,000

Peoples Gas

120,000

Guardian

35,000



### Winter Forward Spreads from Michigan October 4, 2019

	<u>19/20</u>	<u>20/21</u>
MichCon to Dawn	\$0.271	\$0.170
MichCon to Chicago	\$0.281	\$0.222
MichCon to Ventura	\$0.739	\$0.635



### Contract Path / Secondary Points

- Contract and flow patterns may limit Shippers' abilities to flow to secondary out-of-path points
- Secondary In-path: Between primary receipt and primary delivery and in the same direction at contract rate
- Secondary Out-of-Path: Outside of the primary receipt or delivery and/or in the opposite direction of the primary path.
  - Unless explicitly agreed to with Vector, secondary, out-of-path points are not discounted.
- Direction Matters!



## New Tariff Language for Gas Purchases/Sales

- Section 43 added to clarify the ability to make operational purchases and sales
- Anticipates the periodic sale of gas dependent upon system operating conditions
- Baseload quantities sold at the Milford Junction TTS point
- Critical Notice will be posted when quantities will be available before the start of bid week
- Fixed price bidding
- Requires the execution of a NAESB agreement in advance



#### **QuickNom EBB Update**

- Met with several customers
- Generally satisfied with QuickNom functionality
- Intuitive and easy to use
  - "user friendly and easy to navigate"
  - "5+ rating for ease of nominations"
  - "capacity release functionality is simple and clear"
- Easy for customers to cross-train reps
- Retain QuickNom based on feedback and cost considerations



#### 2020 Mastio Pipeline Study

- Vector participates every other year
- We value your candid feedback on our performance
- Want to get connected to the appropriate people in your organization to obtain the most meaningful results



# Questions ?



# Thank You! We appreciate your business!