

Vector Pipeline

Customer Meeting
Austin, Texas
October 11, 2018



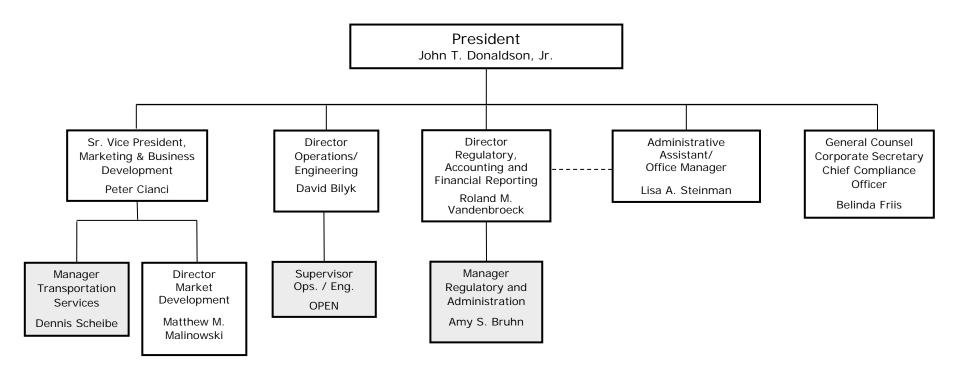
John Donaldson President

Meeting Agenda

- John Welcome and Organizational Changes
- Pete
 - Project and System Update
 - What's Next
- Dennis
 - Mastio Survey Results
 - QuickNom / Latitude Update
 - Recent Regulatory Filing



Organization





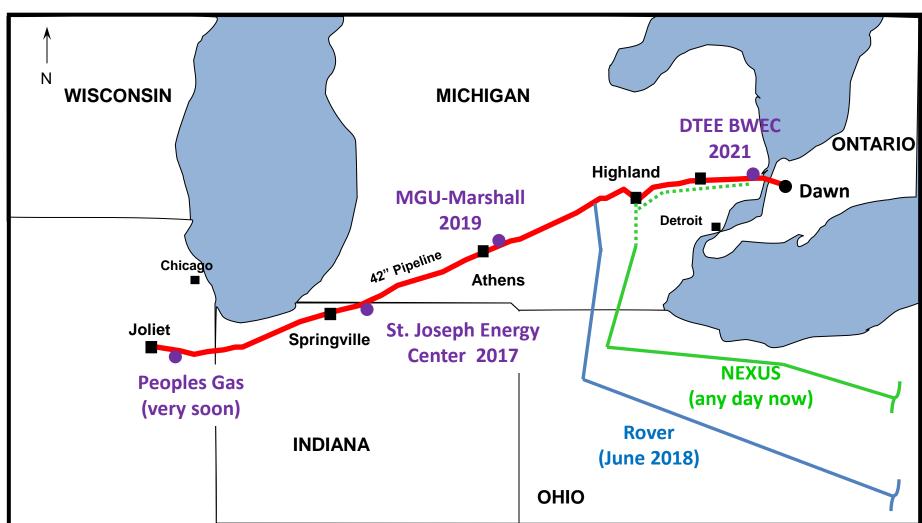
Pete CianciSVP, Business Development & Marketing



Projects



New Interconnections





SJEC

- St. Joseph Energy Center
 - New delivery in Indiana for a 700 MW Power Plant on PJM
 - Vector 1.5 mile, 20-inch lateral and meter station completed Summer 2017
 - Test gas began Q4 2017
 - Commercial in-service April 2018
 - Operating at high load factor
 - Lateral sized to handle future "twin" plant



Rover Interconnect

- New receipt near Howell, Michigan
- Meter Station Capacity-1.45 Bcf/d
- Began flowing gas June 2018
- Ramped up to full contract level by September 1
 - Peak volumes over 1.0 Bcf/d



Milford Junction

- Modifications to allow the Vector-DTE Gas interconnection at Milford, Michigan to be bidirectional allowing for receipt of NEXUS Supply
- Install 0.6 miles, 30-inch "jumper line" to allow lower pressure receipts to flow into the inlet of Vector's Highland Compressor
- Placed in-service 2018 and ready to receive NEXUS Supply



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
 - In-service no later than April 1, 2019



DTEE Interconnect (Proposed)

- DTE Electric Bluewater Energy Center (DTEE-BWEC)
 - New 1100 MW powerplant to replace coal
 - Meter(s) and short lateral to be constructed near St. Clair, Michigan
 - 180 MDth/d load
 - Test gas 2021
 - Commercial in-service 2022



Potential Projects

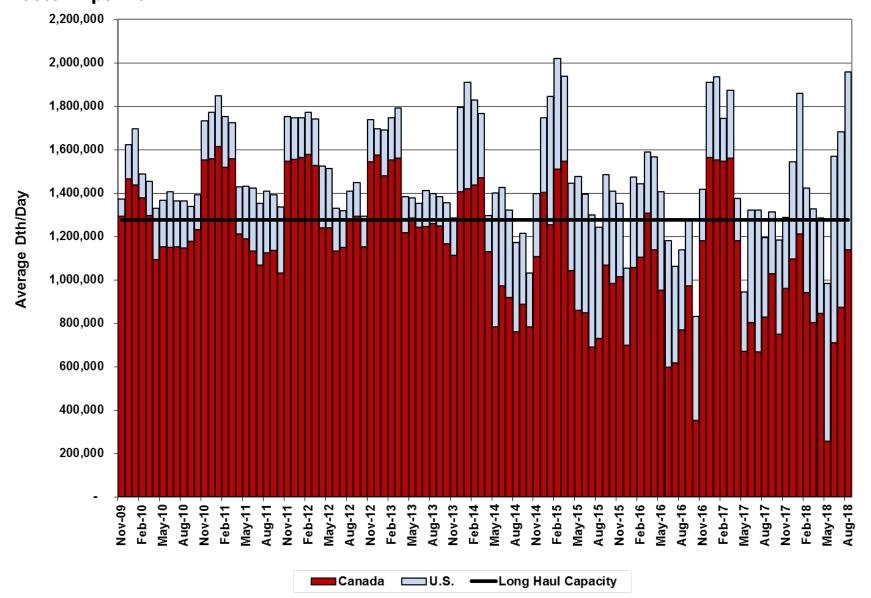
- Chicago/Northern Indiana Markets
 - Exploring growth within this region
- Continue pursuing LDC Interconnects
 - SEMCO
- New powerplants
 - Phase 2 SJEC (MISO)
 - 3 other announced developments close to our mainline
 - Coal retirements in Michigan



Recent Operations

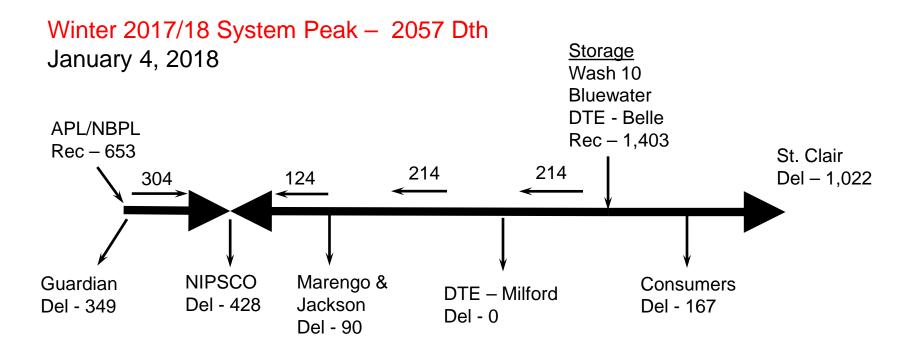
Scheduled Deliveries

(Includes Longhaul, Shorthaul, Backhaul and Segmentation)





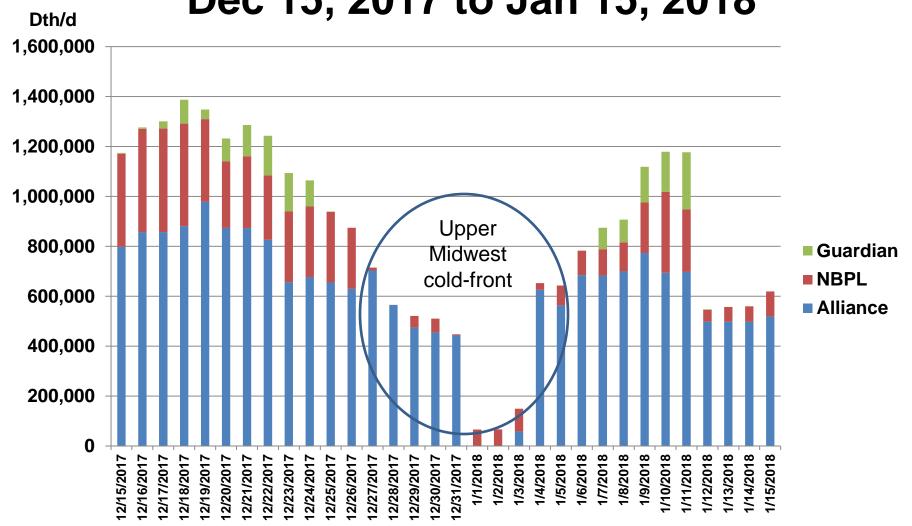
Winter 2017/18



Temperature Range – S.E. Mich. (White Lake): 10°F High, -6°F Low

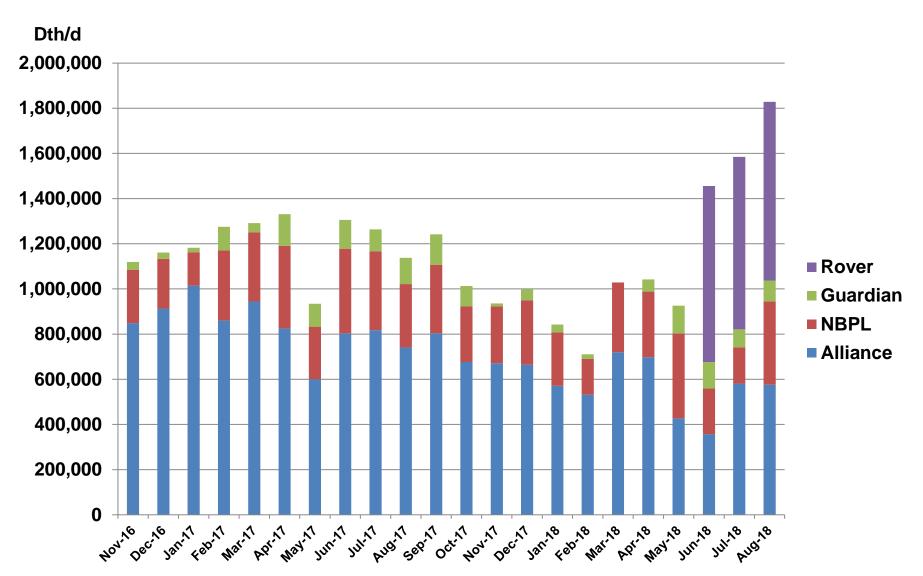


Joliet Receipts Dec 15, 2017 to Jan 15, 2018



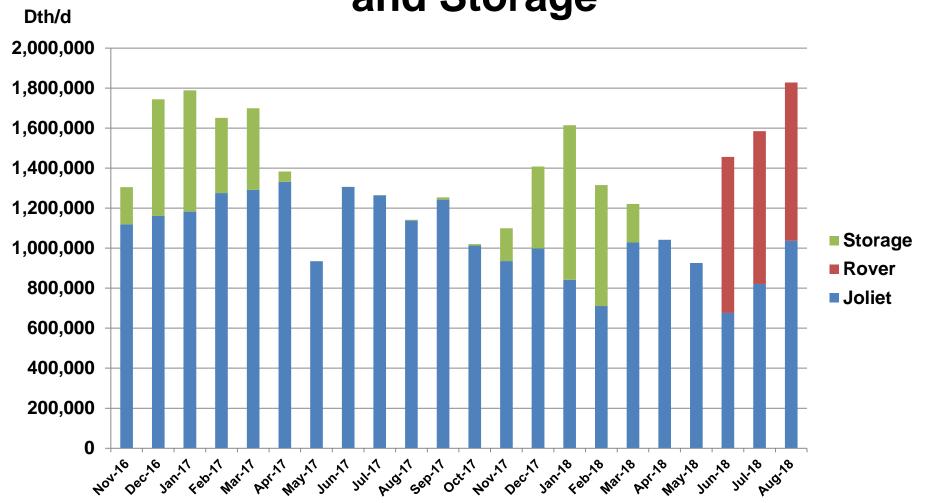


Receipts from Pipelines



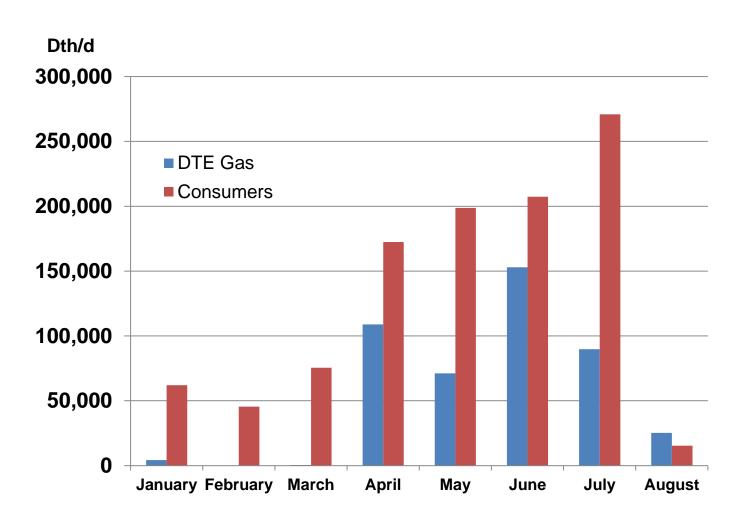


Receipts from Pipelines and Storage



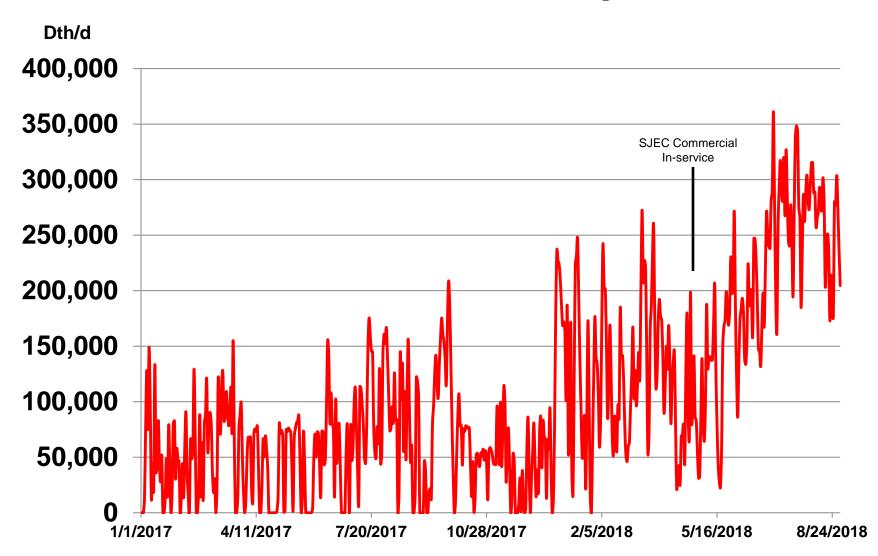


Deliveries to Michigan LDCs





Deliveries to Power plants





BTU Content

(Btu/cf @ St. Clair)

Btu/cf
1015
1015
1026
1035
1045
1054
1054
1051
1061



Springville Compressor 2018-19

- Station currently has two 15,000 hp Solar Mars power turbines and is designed to flow west to east
- Add Bi-directional Capability
- New impellers on both gas compressors to handle wide range of flows
- Modify piping for lower flows (recycle loops)



 Construction underway – station unavailable for compression Oct 5 until late December.



What's Next for Vector

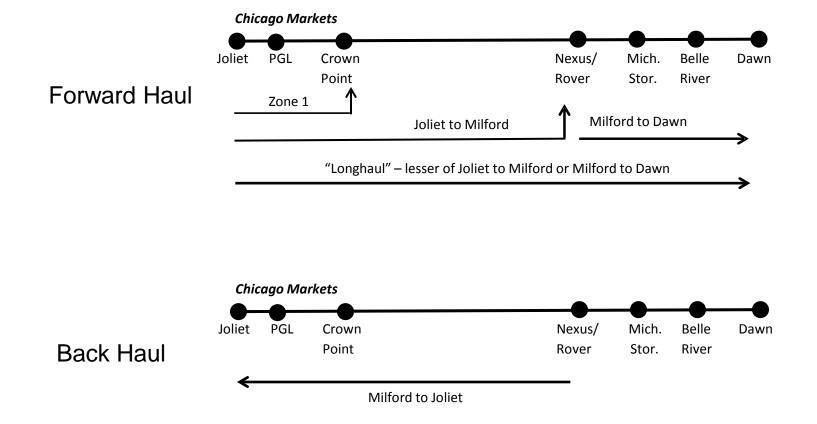


Coming Soon - Revisions to Capacity Postings

- Historically have posted only long-haul capacity (Joliet to Dawn)
- Capacity to be posted by segments:
 - Zone 1 Joliet to Crown Point
 - Joliet to Milford
 - Rover / Milford to Dawn
 - Milford to Joliet (Backhaul)



Capacity Posting by Segments



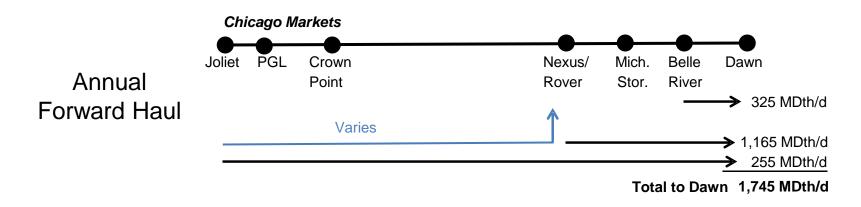


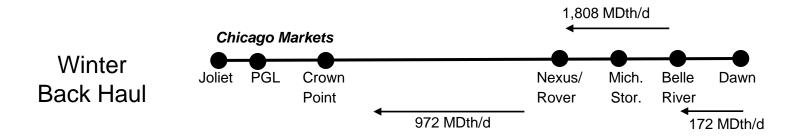
Contract Path / Secondary Points

- 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.



Contractual Flows





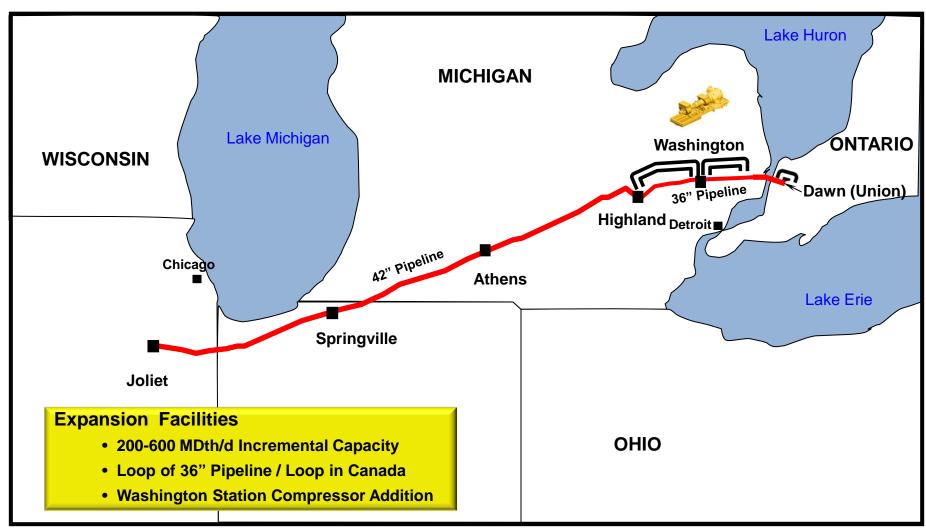


Status of Backhaul Availability

- Sold out for winter, at least until Springville work is completed
- Available capacity from storage to Joliet starting winter 2019
 - 30,000 Dth/d available starting Nov 1, 2019
 - Open season to be conducted in near future
- Additional volumes from Milford back to the west (over 200,000 Dth/d) available after Springville work is complete.
- Summer backhaul capacity available



Future Expansion





Winter 2018/19 Forecast





Dennis ScheibeManager, Transportation Services

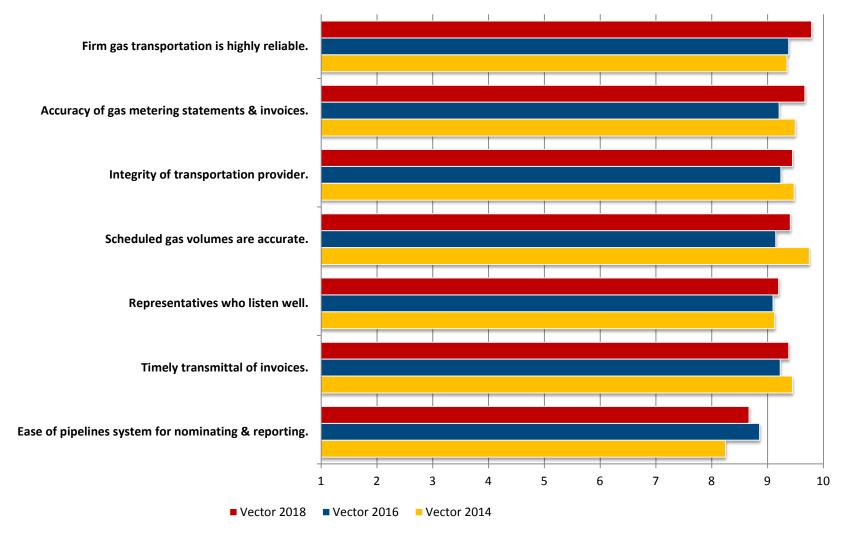


Mastio Customer Survey

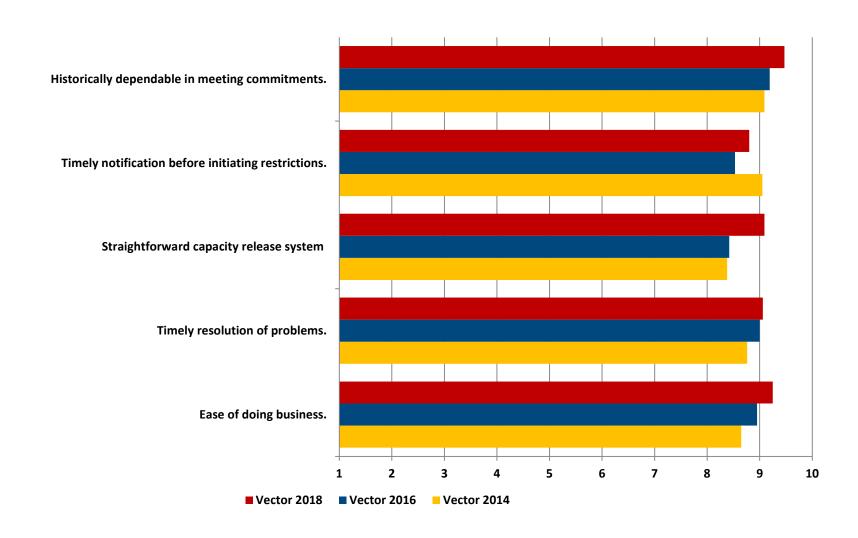
- Baseline Requirements
 - Items a company is expected to be competent in
- Conscious Differentiators
 - Actively drive supplier selection decisions
- Latent Differentiators
 - Correlate highly to customer satisfaction
- Low Impact
 - Parity with competitors is sufficient



Baseline Needs

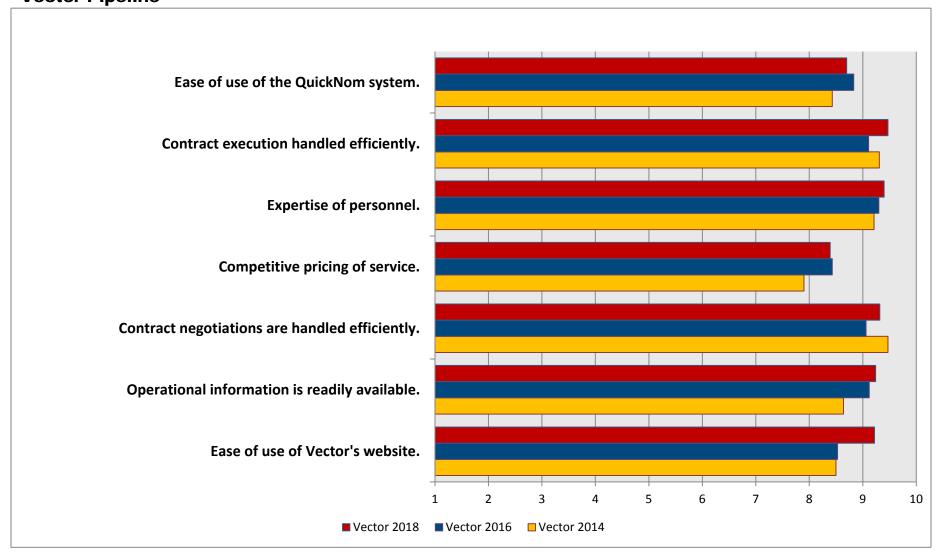


Conscious Differentiators



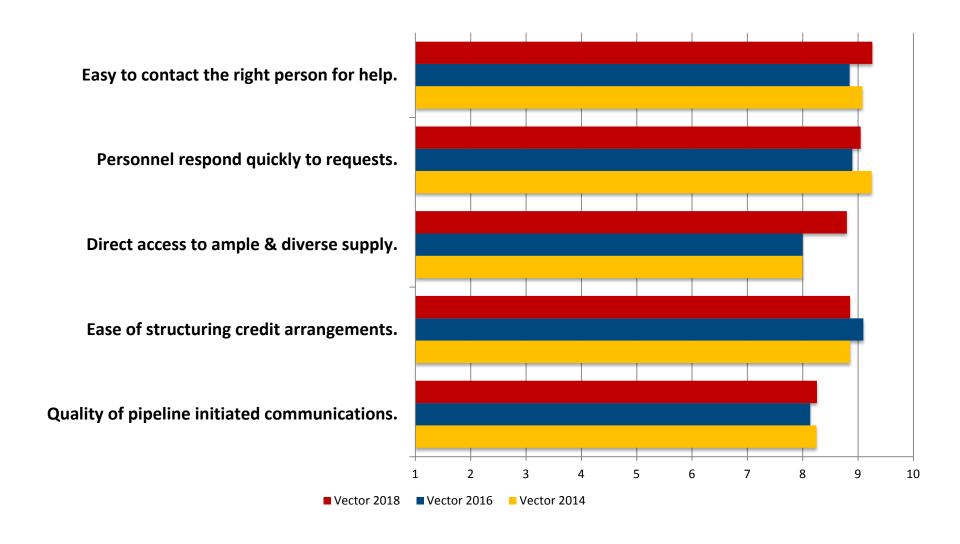


Latent Differentiators





Low Impact





Vector vs. The Industry

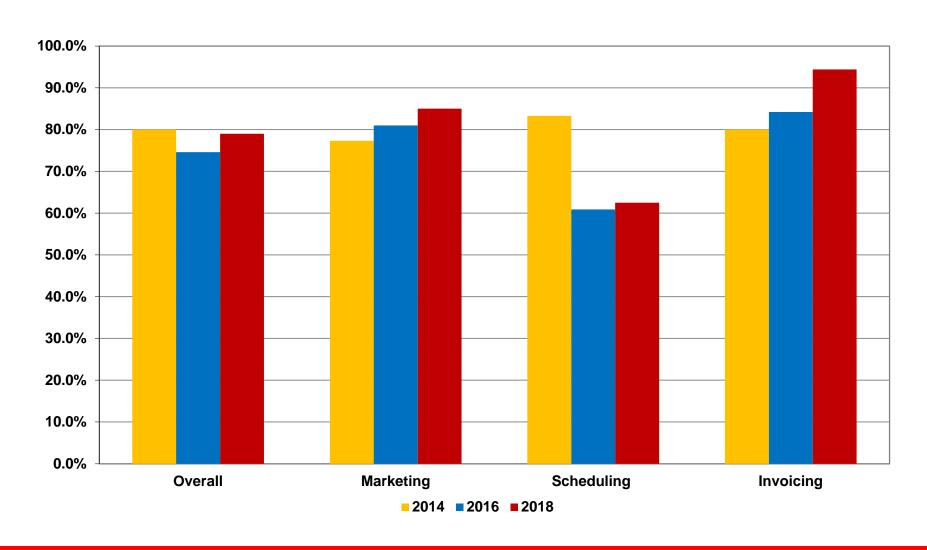
Firm gas transportation is highly reliable. Accuracy of gas metering statements & invoices. Scheduled gas volumes are accurate. Timely notification before initiating restrictions. Straightforward capacity release system Representatives who listen well. Ease of system for nominating & reporting. Easy to contact the right person for help. Personnel respond quickly to requests. **Expertise of personnel.** Competitive pricing of service. Contract negotiations are handled efficiently. Operational information is readily available. Direct access to ample & diverse supply. Quality of pipeline initiated communications. 9

■ Vector 2018 Industry 2018

10



Net Promotor Score





Areas for Improvement

- Quicknom
 - -Cyber-attack residual effects
- Scheduling
 - —Turnover experienced with scheduling staff
 - Ongoing training is a priority.



Latitude/QuickNom Incident



- Ransomware attack BitPaymer
- Four day outage
- No data stolen





- Gas flowed
- Manual nominations
- Manual confirmations
- Used up/downstream numbers





- Segregation/Isolation between servers
- Utilizing AWS Cloud services
- Hired CISO
- Enhanced End-user training and monitoring



Upcoming FERC Compliance Filing

- Related to Tax Cuts and Job Act of 2017
- 501-G Filing due today!
- Vector electing to File Option 1, Limited
 Section 4 Rate Reduction reflecting impact of reduced of corporate tax rate.
- Approximate 9.3% reduction in maximum recourse rates



Questions ?



Thank You! We appreciate your business!