GAS | Americas

U.S.

ALASKA GASLINE DEVELOPMENT CORP. – (REV 7/18)
Project: Alaska Standalone Pipeline
Type: Project includes construction of a transmission pipeline and lateral
Length: 800 miles
Diameter: 42 inches
Location: Prudhoe Bay, AK – Nikiski, AK
Capacity: 3.3 Bcf/d
Start: 2019
Completion: 2023
Status: After reviewing a draft version of the project’s application, Alaska suggests that the project could expose nearly half of the population of resident endangered beluga whales to dangerous levels of noise
Comments: Pipeline is part of the proposed Alaska Nikiski LNG project

ALLIANCE PIPELINE LTD. – (REV 5/18)
Project: Alliance Pipeline Expansion
Type: Project includes the addition of compression and other facilities to an existing pipeline system
Location: Chicago, IL
Capacity: 400 MMcf/d
Completion: 4Q 2021
Comments: Pending regulatory approval, Alliance will increase capacity by approximately 25 percent through the addition of compression and other facilities to its system

AMEREN ILLINOIS – (REV 2/18)
Owner: Ameren Corp.
Project: Pekin Reliability Enhancement Project
Type: Project includes the replacement of underground pipeline
Length: 6.5 miles
Diameter: 16 inches
Location: Pekin, IL
Status: Project is filing for permits
Start: 4Q 2019
Comments: Project will replace the existing six-inch vintage steel natural gas pipeline that’s more than 80 years old and will connect with Ameren’s Peoria Natural Gas Transmission System

AMERICAN MIDSTREAM PARTNERS LP – (REV 6/17)
Project: Magnolia Intrastate Extension
Type: Project includes extension of pipeline
Length: 45 miles

ANTERO MIDSTREAM PARTNERS LP – (12/17)
Project: Marcellus Gathering System Pipeline
Type: Project includes pipeline construction
Length: 10 miles
Diameter: 20 inches
Location: Doddridge, Tyler and Ritchie counties, WV
Start: 2Q 2018

CABOT OIL & GAS CORP. – (REV 8/18)
Owner 1: Williams Partners LP
Operator: Constitution Pipeline LLC
Project: Constitution Pipeline
Type: Project includes construction of pipeline and compression facilities
Length: 124 miles
Diameter: 30 inches
Location: Susquehanna County, PA - Wright County, NY
Capacity: 650 MMcf/d
Status: Williams has asked FERC for an extension for the construction of the Constitution Pipeline

CHENIERE ENERGY INC. – (REV 10/18)
Operator: Midship Pipeline Co. LLC
Project: Midship Project
Type: Project includes construction of pipeline, several laterals, compressor stations and interconnects
Length: 200 miles
Diameter: 36 inches
Location: Grady, OK – Bryan, TX
Capacity: 1.4 MMdly/d
Status: FERC has issued a positive environmental review for the project
Start: 3Q 2018
Completion: 1Q 2019

Contractor: Strike LLC
Type: Contract includes pipeline construction

Contractor: M.G. Dyess Inc.
Type: Contract includes pipeline construction

Contractor: EVRAZ
Type: Contract includes pipeline supply

Project: Velma Lateral
Type: Project includes pipeline construction
Length: 13 miles

DELMARVA PIPELINE CO. – (4/18)
Owner: H4 Capital Partners LLC
Project: Delmarva Pipeline
Type: Project includes pipeline construction
Length: 190 miles
Diameter: 6 and 24 inches
Location: Rising Sun, MD - Accomack, VA
Cost: $1.3 billion
Status: Project is preparing to file with FERC
Completion: 1Q 2021
Comments: Project will be capable of transporting natural gas to serve commercial and industrial energy consumers, natural gas-fired power generators and local distribution companies

DOMINION ENERGY QUESTAR PIPELINE LLC – (REV 8/18)
Owner: Dominion Energy Inc.
Project: Southern Trails Pipeline Abandonment
Type: Project includes abandonment of an existing pipeline, four compressor stations and related facilities
Length: 488 miles
Diameter: 12 to 16 inches
Location: Farmington, NM – Long Beach, CA
Status: Project has been approved
Comments: Project will consist of abandonment by sale approximately 268 miles of pipeline facilities and abandon in-place another approximately 220 miles of pipeline facilities of existing mainline natural gas pipeline

DRIFTWOOD LNG PIPELINE LLC – (REV 2/18)
Project: Driftwood LNG Pipeline
Type: Project involves dual lay of pipeline
Length: 96 miles
Diameter: 36 and 42 inches
Location: Calcasieu Parish, LA - Evangeline Parish, LA
Capacity: 4 Bcf/d
Status: Project has submitted a formal application with FERC and an EPC contract has been awarded for the associated Driftwood LNG Project, which brings the pipeline closer to construction
Start: 2018
Completion: 2022
Comments: Pipeline is part of the proposed Driftwood LNG Project

PLANNED PROJECTS In Development

Projects added for the current month are highlighted and in bold face type

Diameter: 16 inches
Location: Kingfisher County, OK - Okarche, OK
Start: 3Q 2018
Comments: Project will begin at the Chisholm Processing Plant and end on the mainline of the Midship Project

Diameter: 16 inches
Location: Calcasieu Parish, LA - Evangeline Parish, LA
Start: 4Bcf/d
Completion: 2022
Comments: Pipeline is part of the proposed Driftwood LNG Project
DUKE ENERGY OHIO — (REV 6/18)
Project: Central Corridor Pipeline Extension
Type: Project includes expansion of existing pipeline
Length: 12 miles
Diameter: 20 inches
Location: Raleigh, NC
Start: 3Q 2018
Completion: 2019
Status: Project is undergoing an open season
Comments: Project has moved forward with its application before the Ohio Power Siting Board
Type: Project includes construction of pipeline
Length: 13 miles
Diameter: 20 inches
Location: Cincinnati, OH
Status: Project is undergoing public hearings. If built, pipeline will increase the reliability of natural gas delivery in central Cincinnati

EL PASO NATURAL GAS CO. — (7/18)
Project: South Mainline Project
Type: Project includes pipeline looping and new compression
Length: 17 miles
Location: Arizona, New Mexico and Texas
Capacity: 321 MMcf/d
Status: Company has submitted a request to FERC for authorization to construct the project
Comments: Project is an extension of the existing El Paso Natural Gas Pipeline and will offer additional capacity to two customers in the Southwest

ENTERPRISE PRODUCTS PARTNERS LP
ENERGY TRANSFER PARTNERS LP — (6/18)
Project: Old Ocean Pipeline
Type: Project includes resuming service on existing pipeline
Length: 240 miles
Diameter: 24 inches
Location: Maypearl, TX - Sweeny, TX
Comments: Project has been essentially idled since 2012 and both parties are in the process of expanding their jointly owned North Texas Pipeline that will provide more capacity from West Texas for deliveries into the Old Ocean Pipeline

EQT MIDSTREAM PARTNERS LP — (5/18)
Project: Hammerhead Gathering Pipeline
Type: Project includes pipeline construction
Length: 40 miles
Diameter: 30 inches
Location: Southwestern Pennsylvania - Mobjley, WV
Capacity: 1.2 Bcf/d
Completion: 1Q 2020
Comments: System will feed gas to the Mountain Valley Pipeline

FAIRBANKS PIPELINE CO. — (REV 8/15)
Project: Arctic Fox Pipeline
Type: Project includes construction of pipeline and a secondary transmission network
Length: 514 miles
Diameter: 4 and 12 inches

FLORIDA GAS TRANSMISSION — (REV 6/18)
Project: East-West Project
Type: Project includes construction of two laterals and facility modifications
Length: 20 miles
Diameter: 12 inches
Location: Matagorda and Wharton counties, TX; Acadia Parish, LA
Capacity: 275 MMcf/d
Status: Project has been approved by FERC
Comments: Project will transport natural gas from two proposed receipt points and one existing receipt point in Louisiana to two proposed delivery points on Florida Gas's existing pipeline system in the Gulf Coast region of Texas

KINDER MORGAN TEXAS PIPELINE LLC — (6/18)
Project: Permian Highway Pipeline
Type: Project includes pipeline construction
Length: 430 miles
Diameter: 42 inches
Location: Waha, TX - Gulf Coast
Capacity: 2 Bcf/d
Completion: 4Q 2020
Comments: System will hold capacity on Kinder Morgan's intrastate pipeline systems in the market area, which will be able to deliver natural gas to the Katy and Agua Dulce market hubs, and Coastal Bend

LIBERTY UTILITIES — (REV 7/18)
Project: Granite Bridge Pipeline
Type: Project includes construction of a pipeline and gas storage center
Length: 27 miles
Diameter: 16 inches
Location: Manchester, NH - Stratham, NH
Capacity: 2 Bcf (storage)
Cost: $340 million
Status: Project has filed with the NHPUC
Comments: Project will connect two other pipelines that run roughly north through Manchester and Exeter
Contractor: Analysis Group
Type: Contract includes the economic evaluation of the project

Contractor: VHB
Type: Contract includes environmental permitting for the project

MAGNAM ENERGY MIDSTREAM HOLDINGS LLC — (8/18)
Project: Western Energy Storage and Transportation Header Project
Type: Project includes construction of a pipeline header system
Length: 650 miles
Location: Salt Lake City, UT - Yuma, AZ
Capacity: 40 Bcf
Status: Project is undergoing an open season
Comments: System will be designed to move natural gas bi-directionally between multiple receipt points and multiple delivery points, including storage, throughout multiple states in the Western Energy Corridor

MIDCOAST ENERGY LLC — (10/18)
Project: CJ Express Pipeline
Type: Project includes pipeline construction
Length: 150 miles
Diameter: 36 inches
Location: Panola County, TX - Hardin County, TX
Completion: 2Q 2020
Comments: Pipeline will be incorporated into the existing Midcoast East Texas System and will provide natural gas transportation services directly from the Carthage area to Houston Ship Channel and Gulf Coast markets

MONTANA-DAKOTA UTILITIES — (11/17)
Project: Doosan Bobcat Pipeline
Type: Project includes pipeline construction
Length: 21 miles
Diameter: 12 inches
Location: Minnor, ND - Gwinner, ND
Cost: $13.8 million
Start: 3Q 2018
Completion: 2Q 2019
Comments: Project will deliver natural gas to the Bobcat plant and other customers in southeastern North Dakota

MOUNTAINEER GAS CO. — (9/17)
Operator: Mountaineer Gas Co.
Project: Mountaineer Gas Pipeline Phase I
Type: Project includes pipeline construction
Length: 275 miles
Diameter: 10 inches
Location: Berkley, VA - Martinsburg, WV
Cost: $45 million
Docket: 15-1256-G-390P
Completion: 2Q 2019
Comments: Project is undergoing an open season
Segment: Charlestown Loop
Length: 24.5 miles
Status: Project is awaiting WV PSC approval

MOUNTAINEER GAS CO. — (9/17)
Project: Mountaineer Gas Pipeline Phase II
Type: Project includes pipeline construction
Length: 4.4 miles
Status: Project is awaiting WV PSC approval

MOUNTAINEER GAS CO. — (9/17)
Project: Mountaineer Gas Pipeline Phase III
Type: Project includes pipeline construction
Length: 72 miles
Status: Project is awaiting WV PSC approval

MOUNTAIN VALLEY PIPELINE LLC — (6/20)
Project: MVP Southgate Project
Type: Project includes pipeline construction
Length: 72 miles
Location: Pittsylvania County, VA - Alamance County, NC
Completion: 4Q 2020
Comments: Project will receive gas from the Mountain Valley Pipeline mainline and provide low-cost supply access to natural gas produced in the Marcellus and Utica shale regions
### NAMERICO ENERGY HOLDINGS LLC – (5/17)
**Operator:** Pecos Trail Pipeline Co.  
**Project:** Pecos Trail Pipeline  
**Type:** Project includes construction of pipeline  
**Length:** 468 miles  
**Diameter:** 42 inches  
**Location:** West Texas – Corpus Christi, TX  
**Capacity:** 1.85 Bcf/d  
**Status:** Project is seeking sufficient shipper commitments  
**Completion:** 4Q 2019

**Comments:** Project will provide a direct and flexible path for delivering locally produced natural gas to growing and underserved markets in southeastern Pennsylvania and beyond.

### NEXTDECADE LLC – (REV 10/18)
**Operator:** Rio Bravo Pipeline LLC  
**Project:** Rio Bravo Pipeline  
**Type:** Project includes construction of two parallel pipelines and three compressor stations  
**Length:** 137 miles  
**Diameter:** 42 inches  
**Location:** Brownsville, TX - Kingsville, TX  
**Capacity:** 4.5 Bcf/d  
**Status:** Project is awaiting an Environmental Assessment

### NATIONAL FUEL GAS SUPPLY CORP. – (REV 6/18)
**Project:** Northern Access 2016 Project  
**Type:** Project includes construction of pipeline, installation of additional compression, and a new compressor station and gas dehydration facility  
**Length:** 97 miles  
**Diameter:** 24 inches  
**Location:** McKean County, PA - Erie County, NY  
**Capacity:** 300 MDth/d  
**Status:** New York DEC denied the project’s permit, so the project is on hold

### NATURAL GAS PIPELINE CO. OF AMERICA LLC – (3/18)
**Owner:** Kinder Morgan Inc.  
**Project:** Lockridge Extension Pipeline  
**Type:** Project includes the construction of a pipeline lateral, new metering facilities and regulation facilities  
**Length:** 16 miles  
**Diameter:** 30 inches  
**Location:** Ward County, TX - Pecos County, TX  
**Capacity:** 500 MDth/d  
**Status:** Project has undergone an open season  
**Completion:** 4Q 2019  
**Comments:** Project is an extension of the existing Amarillo Pipeline System

### NEW JERSEY NATURAL GAS – (REV 8/17)
**Project:** Southern Reliability Link  
**Type:** Project includes construction of a pipeline and compressor station  
**Length:** 30 miles  
**Diameter:** 30 inches  
**Location:** Ocean, Burlington and Monmouth counties, NJ  
**Cost:** $130 million  
**Status:** Project is awaiting approval from the New Jersey Pinelands Commission

### NEW JERSEY RESOURCES CORP. – (REV 3/18)
**Operator:** Adelphia Gateway LLC  
**Project:** Adelphia Gateway Pipeline  
**Type:** Project includes pipeline conversion from oil to natural gas  
**Length:** 84 miles  
**Diameter:** 18 inches  
**Location:** Bucks, Northampton and Delaware counties, PA  
**Capacity:** 250 MDth/d  
**Status:** Project has filed an application with FERC seeking a Certificate of Public Convenience and Necessity
PLANNED PROJECTS In Development

**Competition:** 3Q 2022
**Status:** Bechtel, Fluor and McDermott are being considered for the Rio Grande LNG EPC contract
**Comments:** Pipeline is part of the Rio Grande LNG Project

**NORTHWEST PIPELINE – (REV 11/17)**

| Project: | Pacific Connector Project |
| Type: | Project includes construction of pipeline |
| Length: | 232 miles |
| Diameter: | 16 inches |
| Location: | Malin, OR – Coos Bay, OR |
| Capacity: | 1.2 Bcf/d |
| Status: | The project is requesting that FERC issue a Draft Environmental Impact Statement in 2018, leading to FERC decisions by the end of 2018 |
| Completion: | 2024 |
| Comments: | Project will connect and provide feed gas to the proposed Jordan Cove LNG Terminal. Pipeline will extend from the interconnect with the Ruby and GTN pipelines |

**SOUTHERN STAR CENTRAL CORP. – (11/17)**

| Project: | Marquette Connector Pipeline Project |
| Type: | Project includes construction of pipeline |
| Length: | 42 miles |
| Diameter: | 10 and 20 inches |
| Location: | Arnold, MI - Negauwee Township, MI |
| Capacity: | 2 Bcf/d |
| Status: | Engineering and permitting are currently in progress |
| Start: | 2019 |
| Completion: | 4Q 2019 |

**PUBLIC SERVICE ELECTRIC AND GAS CO. – (9/17)**

| Project: | Gas System Modernization Program Phase II |
| Type: | Project includes replacement of aging cast-iron and unprotected steel gas pipes |
| Length: | 1,250 miles |
| Location: | New Jersey |
| Cost: | $2.7 billion |
| Status: | Project is preparing to file with the New Jersey BPU |
| Completion: | 4Q 2022 |
| Comments: | The upgrades take place across PSEG’s service territory in 11 counties, concentrating on urban areas established in the early 1900s, where much of the utility’s cast-iron and unprotected steel gas pipes are located |

**RH ENERGYTRANS LLC – (11/18)**

| Project: | Risberg Line Project |
| Type: | Project includes construction of an interstate pipeline and appurtenant facilities |
| Length: | 28 miles |
| Diameter: | 8 and 12 inches |
| Location: | Crawford County, PA – Ashtabula County, OH |
| Capacity: | 55 Dth/d |
| Start: | 2Q 2018 |
| Completion: | 4Q 2018 |
| Comments: | RH will purchase 26 miles of existing 12-inch and 5 miles of existing 8-inch natural gas pipeline from Emkey Gathering. It will qualify these facilities for conversion to natural gas transmission service, and will extend the system to its planned terminus through construction of the Risberg Line |

**SEMPRA LNG & MIDSTREAM – (3/18)**

| Owner 2: | Boardwalk Pipeline Partners LP, 50% |
| Project: | Permian-Katy Pipeline |
| Type: | Project includes pipeline construction |
| Length: | 250 miles |
| Diameter: | 36 and 42 inches |
| Location: | Waha, TX - Katy, TX |
| Capacity: | 2.25 Bcf/d |
| Start: | 3Q 2020 |
| Comments: | Project will connect abundant natural gas supplies from the Permian Basin to large, diversified and growing markets on the Texas Gulf Coast and Mexico |

**PIPELINE NEWS**

**PLANNED PROJECTS**

**In Development**

**18** Pipeline News | October 2018 | pipeline-news.com
<table>
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<td>Access Northeast Project</td>
<td>Eversource Energy</td>
<td>National Grid</td>
<td>Algonquin Gas Transmission LLC</td>
<td>Access Northeast Project</td>
<td>Project includes replacement of existing pipeline, looping extensions, installation of new pipeline, compressor station modifications and construction of pig launcher and receiver facilities</td>
<td>96 miles</td>
<td>6 to 12 inches</td>
<td>New York; Connecticut; Massachusetts</td>
<td></td>
<td>Project is moving forward in New Hampshire</td>
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<td>Access Northeast Project</td>
<td>ConocoPhillips</td>
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<td>Algonquin Gas Transmission LLC</td>
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<td>Project includes construction of a pipeline lateral</td>
<td>27 miles</td>
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<td>Milford, Upton, Grafton, Sutton, Shrewsbury, Boylston and West Boylston, MA</td>
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<td>TE MAX Project</td>
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<td>ConocoPhillips</td>
<td>TEMAX Project</td>
<td>Project includes construction of pipeline, looping and replacement of compressor stations</td>
<td>33 miles</td>
<td>24 inches</td>
<td>Clarion, OH - Delta, PA</td>
<td>395 MMcf/d</td>
<td>Project is preparing to pre-file with FERC</td>
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<td>Greater Philadelphia Expansion Project</td>
<td></td>
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<td>Texas Eastern Transmission</td>
<td>Stratton Ridge Project</td>
<td>Project includes modifications of three mainline compressor stations and the installation of two new compressor stations</td>
<td>35 miles</td>
<td></td>
<td>Brazoria County, TX</td>
<td>322 MDth/d</td>
<td>Project is awaiting an Environmental Assessment</td>
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**SPECTRA ENERGY – (REV 7/18)**

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<td>South Saskatchewan Access Pipeline</td>
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<td>Steel Reef Infrastructure Corp.</td>
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<td>Project includes pipeline construction</td>
<td>5 miles</td>
<td>11 inches</td>
<td>Portal, ND – North Portal, SK</td>
<td>900 cm/d</td>
<td>Project is undergoing public meetings</td>
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**STEEL REEF INFRASTRUCTURE CORP. – (11/17)**

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<td>Renaissance Gas Transmission Project</td>
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<td></td>
<td></td>
<td>Project includes construction of pipeline</td>
<td>230 miles</td>
<td>24, 30 and 36 inches</td>
<td>Bryan County, OK - Lamar County, TX</td>
<td>1.2 MMDth/d</td>
<td>Project is in the evaluation stage</td>
<td>2019</td>
</tr>
<tr>
<td>South Saskatchewan Access Pipeline</td>
<td></td>
<td></td>
<td>Steel Reef Infrastructure Corp.</td>
<td>South Saskatchewan Access Pipeline</td>
<td>Project includes pipeline construction</td>
<td>5 miles</td>
<td>11 inches</td>
<td>Portal, ND – North Portal, SK</td>
<td>900 cm/d</td>
<td>Project is undergoing public meetings</td>
</tr>
</tbody>
</table>
SUMMIT MIDSTREAM PARTNERS LP – (4/18)
Project: Double E Pipeline
Length: 120 miles
Diameter: 24 and 36 inches
Location: Delaware Basin – Pecos, TX
Capacity: 1 Bcf/d (minimum), 1.4 Bcf/d (maximum)
Completion: 1Q 2021
Comments: Project will provide firm natural gas transportation service from various receipt points in the Delaware Basin to various delivery points in and around the Waha Hub, connecting a growing associated natural gas supply basin to a liquid trading point with multiple current and planned takeaway pipelines to demand centers along the US Gulf Coast and Mexico

TALLGRASS ENERGY PARTNERS LP – (REV 2/18)
Owner 1: Tallgrass Energy Partners LP, 50%
Owner 2: AGL Resources Inc., 50%
Project: Prairie State Pipeline
Type: Project includes construction of pipeline
Length: 140 miles
Diameter: 36 or 42 inches
Location: Douglas County, IL - Chicago Market Centre
Capacity: 1.2 Bcf/d
Cost: $1 billion
Status: Project is in the planning stage

TALL OAK MIDSTREAM III LLC – (5/18)
Project: Arkoma Residue Capacity Pipeline
Type: Project includes pipeline construction
Length: 80 miles
Location: Hughes County, OK - Bennington, OK
Start: 2Q 2019
Completion: 4Q 2019
Comments: System will connect to both Tall Oak’s planned Panther Creek Natural Gas Processing Plant and a planned receipt point off the Enable Gas Transmission Pipeline

TARGA RESOURCES CORP. – (9/18)
Project: Whistler Pipeline Project
Type: Project includes pipeline construction
Location: Waha, TX - Nueces County, TX (Aqua Dulce Hub) - Wharton County, TX
Length: 620 miles
Diameter: 30 and 42 inches
Capacity: 2 Bcf/d
Completion: 4Q 2020
Comments: Project will provide an outlet for increased natural gas production from the Permian Basin to growing markets along the Texas Gulf Coast

TELLURIAN INC. – (REV 5/18)
Project: Permian Global Access Pipeline
Type: Project includes pipeline construction
Length: 625 miles
Diameter: 42 inches
Location: Pecos County, TX - Midland, TX – Gillis, LA
Capacity: 2 Bcf/d
Completion: 4Q 2022
Comments: Project is undergoing an open season

TELLURIAN INC. – (REV 5/18)
Project: Downeast Pipeline LLC
Type: Project includes pipeline construction
Length: 30 miles
Diameter: 30 inches
Location: Robbinston, ME
Capacity: 500 Mmcf/d
Status: Project has currently been denied
Comments: Pipeline is part of the proposed Downeast LNG Project

TEXAS EASTERN TRANSMISSION LP – (10/17)
Project: Idle Line 1 Abandonment Project
Type: Project includes abandonment and removal of existing pipeline, metering and regulating facilities, and other related abovementhe facilities
Length: 165 miles
Diameter: 24 inches
Location: Fayette County, OH - Greene County, PA
Status: Project has received a favorable Environmental Assessment

TRANS CANADA CORP. – (REV 7/18)
Operator: Columbia Pipeline Group
Project: Buckeye Xpress Project
Type: Project includes pipeline replacement, looping and additional compression
Length: 64 miles
Diameter: 36 inches
Location: Vinton, Jackson, Gallia and Laurence counties, OH; Wayne County, WV
Capacity: 275 Mmcf/d
Status: Project has requested FERC authorization to start construction
Completion: 4Q 2020
Comments: In addition to the modernization project, the potential to replace this line with 36-inch diameter pipeline to meet growing market demand in the Appalachian region and beyond

VENTURE GLOBAL LNG – (REV 8/17)
Operator: TransCameron Pipeline LLC
Project: TransCameron East Lateral
Type: Project includes construction of pipeline
Length: 24 miles
Diameter: 42 inches
Location: Grand Chenier, LA and Johnson’s Bayou, LA
Capacity: 2 MM MTDth/d
Completion: 1Q 2019

WILLIAMS PARTNERS LP – (10/18)
Operator: Transcontinental Gas Pipe Line Co. LLC
Project: Northeast Supply Enhancement
Type: Project includes construction of pipeline
Length: 35 miles
Diameter: 26 and 42 inches
Location: New York Bay; Lancaster County, PA; Middlesex County, NJ

<table>
<thead>
<tr>
<th>Location</th>
<th>Sumas, WA - Vancouver Island, B.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator</td>
<td>Transcontinental Gas Pipe Line Co. LLC</td>
</tr>
<tr>
<td>Project</td>
<td>Gateway Expansion Project</td>
</tr>
<tr>
<td>Type</td>
<td>Project includes installation of additional electric horsepower at an existing compressor station (Station 303), modifications to an existing meter station and the replacement of an existing meter station</td>
</tr>
<tr>
<td>Start</td>
<td>4Q 2019</td>
</tr>
<tr>
<td>Completion</td>
<td>4Q 2020</td>
</tr>
<tr>
<td>Status</td>
<td>Project is preparing to start the pre-filing process with FERC</td>
</tr>
<tr>
<td>Comments</td>
<td>FERC has issued a Draft EIS for the project</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
<th>Essex County, NJ; Passaic County, NJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator</td>
<td>Transcontinental Gas Pipe Line Co. LLC</td>
</tr>
<tr>
<td>Project</td>
<td>Riverdale South to Market Project</td>
</tr>
<tr>
<td>Type</td>
<td>Project includes pipeline looping, upgrades and existing facility modifications</td>
</tr>
<tr>
<td>Length</td>
<td>11 miles</td>
</tr>
<tr>
<td>Location</td>
<td>New Jersey</td>
</tr>
<tr>
<td>Capacity</td>
<td>65 MDth/d</td>
</tr>
<tr>
<td>Status</td>
<td>Project has submitted an application to FERC</td>
</tr>
<tr>
<td>Comments</td>
<td>Williams has executed agreements with PSEG Power and UGI Energy Services for firm transportation service under the project</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
<th>Sumas, WA - Vancouver Island, B.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator</td>
<td>Steelhead LNG Corp.</td>
</tr>
<tr>
<td>Project</td>
<td>Island Gas Connector</td>
</tr>
<tr>
<td>Type</td>
<td>Project includes construction of pipeline, meter stations and compressor stations</td>
</tr>
<tr>
<td>Length</td>
<td>80 miles</td>
</tr>
<tr>
<td>Diameter</td>
<td>36 inches</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
<th>Boulder County, CO - Black Hawk, CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator</td>
<td>Woodfibre Natural Gas Ltd.</td>
</tr>
<tr>
<td>Project</td>
<td>Eagle Mountain – Woodfibre Gas Pipeline</td>
</tr>
<tr>
<td>Type</td>
<td>Project includes pipeline construction and compressor station upgrades</td>
</tr>
<tr>
<td>Length</td>
<td>15 miles</td>
</tr>
<tr>
<td>Location</td>
<td>Prince George - Kitimat, B.C.</td>
</tr>
<tr>
<td>Capacity</td>
<td>1 Bcf/d</td>
</tr>
<tr>
<td>Status</td>
<td>Project is conducting pre-construction activities</td>
</tr>
<tr>
<td>Comments</td>
<td>Project is associated with the proposed Kitimat LNG Facility</td>
</tr>
</tbody>
</table>

**CANADA**

**CHEVRON CANADA LIMITED – (REV 2/17)**

- Owner 2: Apache Canada
- Operator: Pacific Trail Pipelines Ltd. Partnership
- Project: Pacific Trail Pipeline
- Type: Project includes construction of pipeline and a compressor station
- Length: 298 miles
- Diameter: 42 inches
- Location: Prince George - Kitimat, B.C.
- Capacity: 1 Bcf/d
- Status: Project is conducting pre-construction activities
- Comments: Project is associated with the proposed Kitimat LNG Facility

**FORTISBC – (REV 9/17)**

- Operator: Woodfibre Natural Gas Ltd.
- Project: Eagle Mountain – Woodfibre Gas Pipeline
- Type: Project includes pipeline construction and compressor station upgrades
## PLANNED PROJECTS

### In Development

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Type</th>
<th>Project</th>
<th>Operator</th>
<th>Status</th>
<th>Capacity</th>
<th>Diameter</th>
<th>Location</th>
<th>Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hedberg &amp; Associates Consulting Ltd.</td>
<td>Project includes access planning, permitting and LiDAR design for pipeline routing</td>
<td>TransCanada Corp. – (REV 8/18)</td>
<td>Saddle West Expansion Project</td>
<td>Project is in the pre-application phase</td>
<td>23 Bcf/d</td>
<td>24 inches</td>
<td>Coquitlam to Squamish, B.C.</td>
<td>29 miles</td>
<td>Project will expand a portion of the existing natural gas transmission system and is associated with the proposed Woodfibre LNG Facility</td>
</tr>
<tr>
<td>Spectra Energy Corp. – (REV 5/17)</td>
<td>Project includes construction of two adjacent pipelines</td>
<td>Westcoast Connector Gas Transmission Project</td>
<td>NOVA Gas Transmission Ltd.</td>
<td>Project is on hold</td>
<td>2 Bcf/d</td>
<td>42 and 48 inches</td>
<td>Cypress, B.C. - Prince Rupert, B.C.</td>
<td>75 miles</td>
<td>Project includes construction of a pipeline, meter station, mainline valve sites, launcher and receiver facilities, cathodic protection facilities and miscellaneous work</td>
</tr>
<tr>
<td>Tidewater Midstream and Infrastructure Ltd. – (2/18)</td>
<td>Project includes engineering, procurement and construction of the pipeline</td>
<td>Tidewater Pipeline</td>
<td>Transportadora de Gas del Sur</td>
<td>Project is currently under construction</td>
<td>2 Bcf/d</td>
<td>36 and 48 inches</td>
<td>Hudson’s Hope, B.C. - Lelu Island</td>
<td>99 miles</td>
<td>Project includes construction of pipeline, compressor stations and gas treatment plant</td>
</tr>
<tr>
<td>TransCanada Corp. – (REV 8/18)</td>
<td>Project includes construction of pipeline and compressor stations</td>
<td>Coastal GasLink Pipeline Ltd.</td>
<td>Saddle West Expansion Project</td>
<td>Project is awaiting a Final Investment Decision</td>
<td>2.1 Bcf/d</td>
<td>48 inches</td>
<td>Chetwynd, B.C.</td>
<td>218 miles</td>
<td>Project includes construction of pipeline, compression enhancements at five compressor stations, new meter stations and other associated facilities</td>
</tr>
</tbody>
</table>

### Construction

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Type</th>
<th>Project</th>
<th>Operator</th>
<th>Status</th>
<th>Capacity</th>
<th>Diameter</th>
<th>Location</th>
<th>Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUOR</td>
<td>Project includes engineering, procurement and construction of the pipeline</td>
<td>Merrick Mainline Project</td>
<td>NOVA Gas Transmission Ltd.</td>
<td>Project is undergoing an open season and evaluating potential routes</td>
<td>2 Bcf/d</td>
<td>48 inches</td>
<td>Grande Prairie, AB - Municipal District of Greenview No.16 - Yellowhead County, AB - Clearwater County, AB</td>
<td>165 miles</td>
<td>Project includes construction of pipeline, a meter station, mainline valve sites, launcher and receiver facilities, cathodic protection facilities and miscellaneous work</td>
</tr>
<tr>
<td>ENGIE – (8/17)</td>
<td>Project includes construction of pipeline, compression enhancements at five compressor stations, new meter stations and other associated facilities</td>
<td>Energia Mayakan Pipeline Extension</td>
<td>Transportadora de Gas del Sur</td>
<td>Project is awaiting regulatory approval and is currently awaiting a final investment decision</td>
<td>2.7 Bcf/d</td>
<td>36 and 48 inches</td>
<td>Valladolid, Yucatan - Quintana Roo</td>
<td>17 miles</td>
<td>Project includes construction of pipeline, compression enhancements at five compressor stations, new meter stations and other associated facilities</td>
</tr>
<tr>
<td>PAMPA ENERGÍA – (REV 6/18)</td>
<td>Project includes construction of a pipeline and gas treatment plant</td>
<td>Vaca Muerta Pipeline</td>
<td>Transportadora de Gas del Sur</td>
<td>Project is awaiting regulatory approval</td>
<td>3 Bcf/d</td>
<td>48 inches</td>
<td>Argentina</td>
<td>57 miles</td>
<td>Project includes construction of a pipeline and gas treatment plant</td>
</tr>
</tbody>
</table>

## CARIBBEAN

### South & Central America

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Type</th>
<th>Project</th>
<th>Operator</th>
<th>Status</th>
<th>Capacity</th>
<th>Diameter</th>
<th>Location</th>
<th>Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engel Chang</td>
<td>Project includes engineering, procurement and construction of the pipeline</td>
<td>Wyndwood Pipeline Expansion Project</td>
<td>Westcoast Energy Inc.</td>
<td>Project is awaiting NEB approval</td>
<td>2 Bcf/d</td>
<td>48 inches</td>
<td>Summit Lake, BC – Peace River, BC</td>
<td>161 miles</td>
<td>Project includes construction of pipeline, access planning, protection facilities and miscellaneous work</td>
</tr>
<tr>
<td>SPECTRA ENERGY – (7/17)</td>
<td>Project includes construction of pipeline, compression enhancements at five compressor stations, new meter stations and other associated facilities</td>
<td>Wyndwood Pipeline Expansion Project</td>
<td>Westcoast Energy Inc.</td>
<td>Project is in the planning stage</td>
<td>2 Bcf/d</td>
<td>48 inches</td>
<td>Summit Lake, BC – Peace River, BC</td>
<td>165 miles</td>
<td>Project includes construction of pipeline, access planning, protection facilities and miscellaneous work</td>
</tr>
<tr>
<td>SPECTRA ENERGY – (7/17)</td>
<td>Project includes construction of pipeline, compression enhancements at five compressor stations, new meter stations and other associated facilities</td>
<td>Wyndwood Pipeline Expansion Project</td>
<td>Westcoast Energy Inc.</td>
<td>Project is in the planning stage</td>
<td>2 Bcf/d</td>
<td>48 inches</td>
<td>Summit Lake, BC – Peace River, BC</td>
<td>165 miles</td>
<td>Project includes construction of pipeline, access planning, protection facilities and miscellaneous work</td>
</tr>
</tbody>
</table>
ROYAL DUTCH SHELL – (5/17)
Project: Dragon – Hibiscus Pipeline
Type: Project includes construction of pipeline
Length: 11 miles
Location: Venezuela (Dragon – Hibiscus)
Capacity: 300 MMcf/d
Status: Project is in the development stage

ENTERPRISE PRODUCTS PARTNERS LP — (6/17)
Project: Lou-Tex NGL Pipeline Conversion
Type: Pipeline conversion
Length: 263 miles
Location: Sorrento, LA - Mont Belvieu, TX
Completion: 1Q 2020
Comments: Pipeline will be converted from CPG to PGP service

FRONT RANGE PIPELINE LLC — (6/18)
Project: Front Range NGL Pipeline Expansion
Type: Project includes expansion on an existing 435-mile pipeline
Location: Weld County, CO - Skellytown, TX
Capacity: 100 Mbdp
Completion: 3Q 2019
Comments: Project will allow for greater production of NGLs, which Enterprise expects will grow by 40 percent over the next four years in Colorado

KINDER MORGAN INC. – (REV 5/18)
Project: Utica Marcellus Texas Pipeline
Type: Project includes abandonment and conversion of 964 miles of natural gas service on the Tennessee Gas Pipeline, the construction of new pipeline and laterals to provide basin connectivity
Length: 320 miles
Location: Louisiana – Texas
Capacity: 430 Mbdp
Comments: Project will be designed to transport propane, butanes, natural gasoline, y-grade and condensate in batches along the system

ONEOK INC. – (4/18)
Project: Arbuckle II NGL Pipeline
Type: Project includes pipeline construction
Length: 550 miles
Diameter: 24 and 30 inches
Location: Oklahoma - Mont Belvieu, TX
Capacity: 400 Mbdp (initial), 1 MMbdp (maximum)
Cost: $1.3 billion
Completion: 1Q 2020
Comments: Project will transport unfractionated NGLs originating across ONEOK's supply basins and extensive NGL gathering system to the company's storage and fractionation facilities at Mont Belvieu, TX

ONEOK INC. – (4/18)
Project: Elk Creek Pipeline
Type: Project includes pipeline construction
Length: 900 miles
Diameter: 20 inches
Location: Sidney, MT - Bushton, KS
Capacity: 240 Mbdp (initial), 400 Mbdp (maximum)
PLANNED PROJECTS

ONEOK ROCKIES MIDSTREAM LLC – (REV 6/18)
Project: Cherry Creek Pipeline Conversion Project
Type: Project includes conversion of an existing natural gas gathering pipeline and a portion of another gathering pipeline into a natural gas liquids transmission line
Length: 45 miles
Diameter: 24 inches
Location: North Dakota
Capacity: 50 Mbpd
Cost: $18.5 million
Start: 4Q 2019
Completion: 4Q 2020
Comments: Project will transport y-grade NGLs from the Lonesome Creek Plant to the Stateline Plant and tie into the Bakken Pipeline

PERMICO ENERGIA LLC – (10/17)
Project: Permico’s Texas NGL Project
Segment: Companero Pipeline
Type: Project includes bi-directional pipeline construction
Length: 510 miles
Diameter: 24 inches
Location: Monahans, TX – Corpus Christi, TX
Capacity: 300 Mbpd
Status: Project funding has been secured through long-term commitments from Korean pension fund institutions
Start: 2Q 2018
Completion: 4Q 2020
Comments: Project will include the Markham Storage Facility and El Centro Fractionator

WILLIAMS PARTNERS LP – (6/17)
Project: Promesa Pipeline
Type: Project includes construction of pipeline and utilization of existing pipeline
Length: 3 miles
Diameter: 4 to 10 inches
Location: Mont Belvieu, TX – Houston Ship Channel
Status: Project is in the planning stage

BUCKEYE PARTNERS LP – (REV 9/18)
Project: South Texas Gateway Pipeline
Type: Project includes construction of a distribution system and a long-haul pipeline
Length: 513 miles
Diameter: 30 inches
Location: Wink, Midland and Crane, TX - Corpus Christi, TX
Capacity: 600 Mbpd
Status: Project is currently on hold
Completion: 2Q 2020
Comments: The Permian Basin take-away capacity will expand access to global markets for Texas-produced crude oil, fostering continued economic success for the state

3 BEAR ENERGY LLC — (7/18)
Project: Hat Mesa System
Type: Project includes construction of a gathering and transportation system
Length: 60 miles
Diameter: 10 inches
Location: Lea County, NM
Completion: 3Q 2018
Updates: Project is undergoing an open season
Comments: System’s primary terminal is located southwest of Monument, NM, near the Lynch area, at which point shippers will have the ability to deliver crude oil to interconnecting facilities for further transportation to multiple downstream markets

BLUEKNIGHT ENERGY PARTNERS LP – (REV 11/16)
Operator: Knight Warrior LLC
Project: Knight Warrior Pipeline
Type: Project includes construction of pipeline
Length: 160 miles
Diameter: 16 inches
Location: Madison, Walker, Grimes, Montgomery and Harris counties, TX
Capacity: 100 Mbpd
Cost: $300 million
Status: Project is delayed
Contractor: Hatch Mott MacDonald LLC
Type: Project includes engineering and design for the project

ENBRIDGE PIPELINES INC. – (REV 9/18)
Project: Line 3 Replacement Program
Type: Project includes replacement of pipeline and construction of associated facilities
Length: 1,031 miles
Diameter: 34 and 36 inches
Location: Hardisty, AB – Superior, WI
Capacity: 760 Mbpd
Cost: $7.5 billion
Start: 4Q 2018
Completion: 2019
Status: Project has been approved by the MNPUC
Comments: The existing Line 3 Pipeline will be decommissioned
Contractor: Quanta Services Inc.
Type: Contract includes the construction and installation of mainline pipe
Length: 236 miles
Diameter: 36 inches
Location: White City, SK – Brandon, MB

BRIDGETEX PIPELINE CO. LLC – (2/18)
Project: BridgeTex Pipeline Expansion
Type: Project includes expansion of the BridgeTex Pipeline via enhancements of existing pumps and related equipment
Location: Bryan, TX
Capacity: 40 Mbpd
Status: Project is undergoing an open season
Completion: 2Q 2019
Comments: Pipeline was recently expanded from 300 Mbpd to 400 Mbpd. This proposed expansion will increase capacity on the pipeline to approximately 440,000 bpd

TEXAS EXPRESS PIPELINE LLC — (6/18)
Project: Texas Express NGL Pipeline Expansion
Type: Project includes adding pumping capacity along the existing 583-mile pipeline
Location: Shellytown, TX - Mont Belvieu, TX
Capacity: 50 Mbpd
Completion: 2Q 2019
Comments: Project is undergoing an open season and will facilitate growing production of NGLs from domestic shale basins, including the Denver-Julesburg Basin in Colorado

BUCKEYE PARTNERS LP – (REV 9/18)
Project: South Texas Gateway Pipeline
Type: Project includes construction of a distribution system and a long-haul pipeline
Length: 513 miles
Diameter: 30 inches
Location: Wink, Midland and Crane, TX - Corpus Christi, TX
Capacity: 600 Mbpd
Status: Project is currently on hold
Completion: 2Q 2020
Comments: The Permian Basin take-away capacity will expand access to global markets for Texas-produced crude oil, fostering continued economic success for the state

OIL | Americas

U.S.

3 BEAR ENERGY LLC — (7/18)
Project: Hat Mesa System
Type: Project includes construction of a gathering and transportation system
Length: 60 miles
Diameter: 10 inches
Location: Lea County, NM
Completion: 3Q 2018
Updates: Project is undergoing an open season
Comments: System’s primary terminal is located southwest of Monument, NM, near the Lynch area, at which point shippers will have the ability to deliver crude oil to interconnecting facilities for further transportation to multiple downstream markets

BLUEKNIGHT ENERGY PARTNERS LP – (REV 11/16)
Operator: Knight Warrior LLC
Project: Knight Warrior Pipeline
Type: Project includes construction of pipeline
Length: 160 miles
Diameter: 16 inches
Location: Madison, Walker, Grimes, Montgomery and Harris counties, TX
Capacity: 100 Mbpd
Cost: $300 million
Status: Project is delayed
Contractor: Hatch Mott MacDonald LLC
Type: Project includes engineering and design for the project

ENBRIDGE PIPELINES INC. – (REV 9/18)
Project: Line 3 Replacement Program
Type: Project includes replacement of pipeline and construction of associated facilities
Length: 1,031 miles
Diameter: 34 and 36 inches
Location: Hardisty, AB – Superior, WI
Capacity: 760 Mbpd
Cost: $7.5 billion
Start: 4Q 2018
Completion: 2019
Status: Project has been approved by the MNPUC
Comments: The existing Line 3 Pipeline will be decommissioned
Contractor: Quanta Services Inc.
Type: Contract includes the construction and installation of mainline pipe
Length: 236 miles
Diameter: 36 inches
Location: White City, SK – Brandon, MB

BRIDGETEX PIPELINE CO. LLC – (2/18)
Project: BridgeTex Pipeline Expansion
Type: Project includes expansion of the BridgeTex Pipeline via enhancements of existing pumps and related equipment
Location: Bryan, TX
Capacity: 40 Mbpd
Status: Project is undergoing an open season
Completion: 2Q 2019
Comments: Pipeline was recently expanded from 300 Mbpd to 400 Mbpd. This proposed expansion will increase capacity on the pipeline to approximately 440,000 bpd

TEXAS EXPRESS PIPELINE LLC — (6/18)
Project: Texas Express NGL Pipeline Expansion
Type: Project includes adding pumping capacity along the existing 583-mile pipeline
Location: Shellytown, TX - Mont Belvieu, TX
Capacity: 50 Mbpd
Completion: 2Q 2019
Comments: Project is undergoing an open season and will facilitate growing production of NGLs from domestic shale basins, including the Denver-Julesburg Basin in Colorado
ENBRIDGE PIPELINES INC. – (REV 12/17)
Project: Line 67 Expansion
Type: Project includes installation of new pump stations and associated station piping, including valves and appurtenances at four existing facilities
Location: Donaldson, Plummer, Cass Lake, and Floodwood, MN
Capacity: 120 Mbpd
Status: Project has received a presidential permit for construction
Comments: Project will add compression to a segment of the existing Alberta Clipper Pipeline

ENERGY TRANSFER PARTNERS LP – (REV 10/18)
Project: Permian to Gulf Coast Pipeline
Type: Project includes pipeline construction
Length: 600 miles
Diameter: 30 inches
Location: Permian Basin - Houston, TX - Nederland, TX
Capacity: 600 Mbpd (initial), 1 MMbpd (maximum)
Completion: 2Q 2020
Status: System has received sufficient commitments to proceed with construction
Comments: System will transport crude oil to both Energy Transfer’s Nederland, TX, and Magellan’s East Houston terminal for delivery through their respective distribution systems

ENTERPRISE PRODUCTS PARTNERS LP – (9/18)
Project: Texas City Terminal Pipeline
Type: Project includes pipeline construction
Length: 80 miles
Diameter: 24 inches
Location: Texas City, TX
Capacity: 85 Mbpd
Status: Project is in the front-end engineering and design phase and is preparing applications for regulatory permitting
Comments: Project will run to a proposed offshore terminal capable of loading and exporting crude oil

GENESIS ENERGY LP – (1/18)
Project: Powder River Basin Pipeline Gathering System
Type: Project includes construction of gathering lines to an existing pipeline
Location: Campbell and Converse counties, WY
Status: Project is undergoing an open season
Comments: Project will connect crude oil production to the existing 140-mile Powder River Basin Pipeline, which provides producers in Wyoming’s emerging Powder River basin access to multiple attractive markets, including additional downstream markets at Guernsey, WY, regional refineries and/or west, east and gulf coast markets via the Pronghorn Rail loading terminal directly connected to both the Union Pacific and BNSF railroads

EXXON MOBIL CORP./PLAINS ALL AMERICAN PIPELINE LP – (7/18)
Project: Permian Pipeline JV
Type: Project includes pipeline construction
Location: Midland, TX - Houston, TX
Capacity: 1 MMbpd
Comments: Project will originate in both Wink and Midland, TX with delivery points in Webster, Baytown and Beaumont, TX

HILCORP ALASKA – (11/17)
Project: Cook Inlet Pipe Line System Expansion
Type: Project includes construction of onshore and offshore pipelines and conversion of a cross-inlet pipeline from natural gas to oil
Location: Cook Inlet, AK
Status: Project has requested permission from the Regulatory Commission of Alaska
Comments: The undersea oil pipeline will allow for...
## PLANNED PROJECTS

### KINGSFisher MIDSTREAM — (7/18)

**Project:** Cimarron Express Pipeline  
**Type:** Project includes pipeline construction  
**Length:** 65 miles  
**Diameter:** 16 inches  
**Location:** Kingfisher County, OK - Cushing, OK  
**Capacity:** 90 Mbdp (initial), 175 Mbdp (maximum)  
**Comments:** BlueKnight Energy Partners will construct and operate the pipeline, which will connect to Kingfisher’s crude oil gathering system in northeastern Kingfisher County, OK

### MAGELLAN MIDSTREAM PARTNERS LP — (REV 5/18)

**Project:** Crane to Three Rivers Pipeline  
**Type:** Project includes pipeline construction  
**Length:** 375 miles  
**Diameter:** 24 inches  
**Location:** Crane, TX - Three Rivers, TX  
**Capacity:** 350 Mbdp (initial)  
**Status:** Project is on hold

### MARATHON PIPE LINE LLC — (12/17)

**Owner 2:** Plains All American Pipeline LP  
**Owner 3:** BP Oil Pipeline Co.  
**Project:** Capline Pipeline Reversal  
**Type:** Project includes pipeline reversal to create a southbound flow on the existing system  
**Length:** 652 miles  
**Diameter:** 12 inches  
**Location:** St. James, LA - Patoka, IL  
**Capacity:** 300 Mbdp (initial)  
**Status:** Project is undergoing an open season  
**Completion:** 2Q 2022  
**Comments:** The reversed pipeline would be able to receive crude from connecting carriers at Patoka. At St. James, shippers would have access to a distribution network that includes refineries, terminals, ships, barges, and rail

### MEDALLION PIPELINE CO. — (REV 10/18)

**Project:** Medallion Midland Basin Pipeline Expansion  
**Type:** Project includes the expansion of six pipeline segments on an existing pipeline system  
**Diameter:** 16 inches  
**Location:** Midland Basin  
**Status:** Project is conducting a supplemental open season to solicit additional binding long-term commitments for expanded capacity.  
**Comments:** Expansion will enable the system to transport increased quantities of crude oil, produced from acreage proximate to Medallion’s system, to downstream pipelines and markets

### MPLX LP — (REV 4/18)

**Operator:** MPLX Ozark Pipeline LLC  
**Project:** Cushing-to-Patoka Expansion Project  
**Type:** (Ozark Pipeline Expansion)  
**Location:** Project includes the expansion of an existing pipeline system  
**Location:** Cushing, OK - Wood River, IL  
**Capacity:** 115 Mbdp  
**Status:** Project has completed a successful open season  
**Start:** 2Q 2018  
**Comments:** Ozark Pipeline is an existing 433-mile, 22-inch crude oil pipeline originating in Cushing, OK, and terminating in Wood River, IL, capable of transporting approximately 230 Mbdp  
**Operator:** Marathon Pipe Line LLC  
**Project:** Cushing-to-Patoka Expansion Project (Woodpat Pipeline Expansion)  
**Type:** Project includes the expansion of an existing pipeline system  
**Location:** Wood River, IL - Patoka, IL  
**Capacity:** 130 Mbdp  
**Status:** Project is seeking shipper commitments  
**Start:** 2Q 2018  
**Comments:** Woodpat Pipeline is an existing 55-mile, 22-inch crude oil pipeline originating in Wood River, IL, and terminating in Patoka, IL, capable of transporting approximately 215 Mbdp  
**Operator:** Shell Midstream Partners LP  
**Project:** Gray Oak Pipeline  
**Type:** Project includes pipeline construction  
**Location:** Reeves, Loving, Winkler, and Crane counties, TX - Corpus Christi, TX – Freeport, TX – Houston, TX  
**Capacity:** 385 Mbdp (initial)  
**Status:** Project is undergoing an open season  
**Completion:** 2Q 2019  
**Comments:** Project received enough commitments from Permian Basin oil producers to move ahead with construction

### ONEOK BAKKEN PIPELINE LLC — (REV 3/17)

**Project:** Bakken Expansion II Loop Project  
**Type:** Project includes construction of pipeline  
**Location:** North Dakota - South Dakota  
**Capacity:** 350 Mbdp  
**Status:** Project is undergoing an open season  
**Completion:** 4Q 2018  
**Comments:** The Bakken Expansion II Loop Project will connect the planned Atlantic Coast Pipeline with the Permian Basin crude oil pipeline system

### PHILLIPS 66 — (REV 6/18)

**Project:** Gray Oak Pipeline  
**Type:** Project includes pipeline construction  
**Location:** Reeves, Loving, Winkler, and Crane counties, TX - Corpus Christi, TX – Freeport, TX – Houston, TX  
**Capacity:** 385 Mbdp (initial)  
**Status:** Project is undergoing an open season  
**Completion:** 2Q 2019  
**Comments:** Project includes replacement of an existing 24-inch pipeline and installation of a new pump station to reduce the operating pressure of the system

### PSNC ENERGY CO. — (5/18)

**Project:** T-030 Gas Pipeline Extension  
**Type:** Project includes pipeline construction  
**Location:** Midland, TX - Cushing, OK  
**Capacity:** 350 Mbdp  
**Status:** Project is undergoing an open season  
**Completion:** 2Q 2019  
**Comments:** System will terminate at the Clayton supply interchange facility which will also serve as a future supply interchange with the planned Atlantic Coast Pipeline

### QUESTAR PIPELINE CO. — (REV 3/18)

**Project:** Inland California Express  
**Type:** Project includes reconfiguring the western segment of Southern Trails Pipeline to transport crude oil  
**Location:** 96 miles  
**Diameter:** 16 inches  
**Location:** Whitewater, CA - Long Beach, CA  
**Capacity:** 140 Mbdp  
**Status:** Project is on hold  
**Comments:** Project will link refineries in Long Beach to the growing supply of crude oil from the central U.S. and Canada

### SHELL PIPELINE COMPANY LP (REV 2/17)

**Operator:** Zylene Pipeline Co. LLC  
**Owner 2:** Shell Midstream Partners LP  
**Project:** Houma - St. James Pipeline  
**Type:** Project includes construction and utilization of existing pipeline  
**Location:** Louisiana, LA  
**Capacity:** 120 Mbdp  
**Start:** 4Q 2018  
**Completion:** 4Q 2019  
**Comments:** Project includes capacity expansions to the existing Delaware Basin system of up to 200 Mbdp  
**Contractor:** Holloman Corp.

### PLAINS ALLAMERICAN PIPELINE LP — (REV 5/18)

**Project:** Sunrise Pipeline System Expansion  
**Type:** Project includes construction of pipeline and utilization of existing pipeline  
**Location:** St. James Parish, LA - St. Bernard Parish, LA  
**Capacity:** 115 Mbdp  
**Status:** Project has completed a successful open season  
**Start:** 2Q 2018  
**Comments:** Sunrise Pipeline System Expansion will enable the system to transport increased quantities of crude oil, produced from acreage proximate to Plains’ system, to downstream refineries and markets in the southern U.S. and Canada

### SHELL PIPELINE COMPANY LP (REV 2/17)

**Operator:** Zylene Pipeline Co. LLC  
**Owner 2:** Shell Midstream Partners LP  
**Project:** Houma - St. James Pipeline  
**Type:** Project includes construction and utilization of existing pipeline  
**Location:** Louisiana, LA  
**Capacity:** 120 Mbdp  
**Start:** 4Q 2018  
**Completion:** 4Q 2019  
**Comments:** Project includes capacity expansions to the existing Delaware Basin system of up to 200 Mbdp  
**Contractor:** Holloman Corp.

### QUESTAR PIPELINE CO. — (REV 3/18)

**Project:** Inland California Express  
**Type:** Project includes reconfiguring the western segment of Southern Trails Pipeline to transport crude oil  
**Location:** 96 miles  
**Diameter:** 16 inches  
**Location:** Whitewater, CA - Long Beach, CA  
**Capacity:** 140 Mbdp  
**Status:** Project is on hold  
**Comments:** Project will link refineries in Long Beach to the growing supply of crude oil from the central U.S. and Canada

### SHELL PIPELINE COMPANY LP (REV 2/17)

**Operator:** Zylene Pipeline Co. LLC  
**Owner 2:** Shell Midstream Partners LP  
**Project:** Houma - St. James Pipeline  
**Type:** Project includes construction and utilization of existing pipeline  
**Location:** Louisiana, LA  
**Capacity:** 120 Mbdp  
**Start:** 4Q 2018  
**Completion:** 4Q 2019  
**Comments:** Project includes capacity expansions to the existing Delaware Basin system of up to 200 Mbdp  
**Contractor:** Holloman Corp.

### QUESTAR PIPELINE CO. — (REV 3/18)

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**Type:** Project includes reconfiguring the western segment of Southern Trails Pipeline to transport crude oil  
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**Capacity:** 140 Mbdp  
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### SHELL PIPELINE COMPANY LP (REV 2/17)

**Operator:** Zylene Pipeline Co. LLC  
**Owner 2:** Shell Midstream Partners LP  
**Project:** Houma - St. James Pipeline  
**Type:** Project includes construction and utilization of existing pipeline  
**Location:** Louisiana, LA  
**Capacity:** 120 Mbdp  
**Start:** 4Q 2018  
**Completion:** 4Q 2019  
**Comments:** Project includes capacity expansions to the existing Delaware Basin system of up to 200 Mbdp  
**Contractor:** Holloman Corp.
replacement of large diameter pipeline

**Location:** Houma - St. James
**Start:** 2Q 2018
**Status:** Project is in the planning stages
**Comments:** Project will replace a segment of the existing Zydeco Houma – St. James line

**TALLGRASS ENERGY LP – (REV 10/18)**

**Project:** Seahorse Pipeline
**Type:** Project includes pipeline construction and is associated with the Plaquemines Liquids Terminal projects
**Location:** Cushing, OK - St. James, LA
**Length:** 700 miles
**Diameter:** 30 inches
**Capacity:** 800 Mbpd
**Status:** Project is undergoing an open season
**Comments:** Project will operate as a common grade batch system that, along with Tallgrass’ Pony Express Pipeline, will ensure domestic refiners and international markets have access to ‘clean’ barrels from five different production basins

**Project:** Cheyenne Connector Pipeline
**Type:** Project includes pipeline construction
**Length:** 70 miles

**Diameter:** 36 or 42 inches
**Location:** Weld County, CO
**Capacity:** 600 Dth/d (initial) 1.3 MMdth/d (maximum)
**Completion:** 3Q 2019
**Comments:** Project has submitted an application with FERC

**Project:** Iron Horse Pipeline
**Type:** Project includes 40 miles of new build and 40 miles of gas-to-oil conversion pipeline
**Length:** 80 miles
**Diameter:** 16 inches
**Location:** Labonte, WY - Guernsey, WY
**Capacity:** 100 Mbd
**Cost:** $150 million
**Completion:** 1Q 2019
**Comments:** Project will connect Silver Creek’s developing gathering system to the Tallgrass Guernsey Terminal, which is currently under construction, and then to Tallgrass’s Pony Express Pipeline and other pipelines in Guernsey, WY

**TEXSTAR MIDSTREAM LOGISTICS – (5/17)**

**Project:** Karnes Pipeline
**Type:** Project includes pipeline construction
**Length:** 15 miles
**Diameter:** 10 and 12 inches

**Location:** Karnes, TX
**Comments:** Associated with EPIC Pipeline

**CANADA**

**EAGLE SPIRIT ENERGY HOLDINGS LTD. – (3/18)**

**Project:** Eagle Spirit Pipeline
**Type:** Project includes pipeline construction
**Length:** 995 miles
**Diameter:** 48 inches
**Location:** Edmonton, AB - Prince Rupert, B.C.
**Capacity:** 2 MMbpd
**Status:** Project received approval from all First Nations chiefs along a proposed route through northern B.C. and has financial backing from Aquilini Investment Group
**Comments:** Project is being proposed to replace the canceled Northern Gateway Pipeline and would link Alberta’s oil to British Columbia’s coast, where tankers would transport the cargo to foreign markets

**ENBRIDGE PIPELINES INC. – (REV 3/18)**

**Project:** Line 21 Pipeline (Norman Wells Pipeline)
**Type:** Project includes installation and decommissioning of pipeline
**Length:** 1.5 miles
**Diameter:** 12 inches
## PLANNED PROJECTS

### In Development

<table>
<thead>
<tr>
<th>Location</th>
<th>Status</th>
<th>Operator</th>
<th>Project</th>
<th>Type</th>
<th>Capacity</th>
<th>Diameter</th>
<th>Length</th>
<th>Cost</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fort Simpson, Northwest Territories</td>
<td>Project has received conditional NEB approval</td>
<td>KINDER MORGAN ENERGY PARTNERS – (10/17)</td>
<td>Buckeye PARTNERS LP – (1/18)</td>
<td>Pipeline includes construction of twinned pipeline, 12 new pump stations and 20 tanks</td>
<td>608 miles</td>
<td>30 to 36 inches</td>
<td>Edmonto - Vancouver</td>
<td>590 Mbpd</td>
<td>Project is undergoing an open season</td>
</tr>
<tr>
<td>Corpus Christi, TX - Brownsville, TX</td>
<td>The existing Line 602 Project transports refined petroleum products from Linden, NJ to destination points in Inwood and Long Island City, NY</td>
<td>DOMINION RESOURCES INC. – (7/16)</td>
<td>Sweden Valley Project</td>
<td>Project includes pipeline construction, compressor station modifications and new metering and regulation facilities</td>
<td>120 MBid/d</td>
<td>12 inches</td>
<td>70 miles</td>
<td>50 Mbpd</td>
<td>Project is preparing to file an application for a Certificate of Public Convenience and Necessity with FERC</td>
</tr>
<tr>
<td>Corpus Christi, TX - Brownsville, TX</td>
<td>Project involves construction of spreads 7 &amp; 2 of the pipeline (Edmonton/ Yellowhead)</td>
<td>ENERGY TRANSFER PARTNERS LP— (6/18)</td>
<td>V-Tex Project Phase II</td>
<td>Project includes pipeline construction</td>
<td>85 Mbpd</td>
<td>12 inches</td>
<td>135 miles</td>
<td>85 Mbpd</td>
<td>Project will help meet growing demand for natural gas to serve Midwest markets</td>
</tr>
<tr>
<td>Houston, TX - Hearne, TX</td>
<td>Project includes construction of spread 6A of the pipeline (IBC Interior)</td>
<td>FORMOSA PLASTICS GROUP – (7/17)</td>
<td>Strike LLC</td>
<td>Project includes construction of pipeline</td>
<td>120 MBid/d</td>
<td>12 inches</td>
<td>135 miles</td>
<td>85 Mbpd</td>
<td>Project will transfer diesel fuel from existing Sunoco Pipeline assets to a newly constructed terminal in Midland, TX</td>
</tr>
<tr>
<td>Hardisty, AB - Steele City, NE</td>
<td>Project includes construction of spread 7A of the pipeline, Burnaby Mountain tunnel and three terminals (Westridge Marine Terminal, Burnaby Terminal and the Sumas Terminal)</td>
<td>HOLLY ENERGY PARTNERS LP – (9/18)</td>
<td>Orla to Midland Refined Product Pipeline</td>
<td>Project includes pipeline construction</td>
<td>180 MBid/d</td>
<td>12 inches</td>
<td>608 miles</td>
<td>85 Mbpd</td>
<td>Project is undergoing a feasibility study</td>
</tr>
<tr>
<td>Hardisty, AB - Steele City, NE</td>
<td>Project involves construction of spread 6 of the pipeline (Fraser Valley)</td>
<td>V-Tex Project Phase II</td>
<td>Work scope includes the expansion and reversal of an existing refined petroleum products pipeline system</td>
<td>Project includes construction of pipeline</td>
<td>500 Mbpd</td>
<td>12 inches</td>
<td>135 miles</td>
<td>85 Mbpd</td>
<td>Project provides the ability to deliver additional product north to Temple, Waco and Dallas as well as Magellan’s Midcontinent markets, including Little Rock, AR. If warranted by additional customer demand, pipeline capacity originating in the Houston area could be further increased</td>
</tr>
<tr>
<td>Hardisty, AB - Steele City, NE</td>
<td>Project involves construction of pipeline</td>
<td>HOWARD ENERGY PARTNERS LP – (REV 6/17)</td>
<td>Sabine Bayou Line Project</td>
<td>Project includes construction of pipeline</td>
<td>120 MBid/d</td>
<td>12 inches</td>
<td>135 miles</td>
<td>85 Mbpd</td>
<td>Project involves pipeline construction</td>
</tr>
</tbody>
</table>

### Products

**U.S.**

<table>
<thead>
<tr>
<th>Location</th>
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<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Arthur, TX</td>
<td>Buckeye Pipe Line Company LP</td>
<td>Line 602 Expansion Project</td>
</tr>
</tbody>
</table>

**KINDER MORGAN INC. – (REV 7/17)**

- **Operator:** Palmetto Products Pipe Line LLC
- **Project:** Palmetto Pipeline
- **Type:** Project includes construction of pipeline, tanks and pump stations
- **Capacity:** 60 Mbpd
- **Diameter:** 16 and 20 inches
- **Location:** South Carolina - Florida
- **Status:** Project is undergoing an open season

**MAGELLAN MIDSTREAM PARTNERS LP – (REV 7/18)**

- **Project:** Magellan Refined Products Pipeline
- **Type:** Project includes expansion of the western leg of its refined products pipeline system
- **Capacity:** 50 Mbpd (initial), 70 Mbpd (max)
- **Location:** Houston, TX - Hearne, TX
- **Capacity:** 85 Mbpd
- **Cost:** $1.1 billion
- **Docket:** ORTS-13
- **Status:** Project is delayed

## PRODUCTS

** Americas**
<table>
<thead>
<tr>
<th>Company</th>
<th>Project</th>
<th>Type</th>
<th>Length</th>
<th>Diameter</th>
<th>Location</th>
<th>Capacity</th>
<th>Status</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>PILGRIM PIPELINE HOLDINGS LLC – (REV 3/18)</td>
<td>Pilgrim Pipeline</td>
<td>Project includes construction of parallel pipelines</td>
<td>356 miles</td>
<td>24 inches</td>
<td>Port of Albany, NY – Linden, NJ</td>
<td>400 Mbpd</td>
<td>Project contract is out for bid</td>
<td>Project will transport gasoline, diesel fuel, propane and condensate from Magellan’s terminal in Corpus Christi, TX to TransMontaigne’s terminal in Brownsville, TX</td>
</tr>
<tr>
<td>INVEK GROUP INFRAESTRUCTURA, S.A.P.I. DE C.V. – (4/18)</td>
<td>Tajin Pipeline Project</td>
<td>Project includes pipeline and storage terminal construction</td>
<td>165 miles</td>
<td>20 inches</td>
<td>Tuxpan, Veracruz - Mexico Valley</td>
<td>165 Mbpd</td>
<td>Project is out for bids</td>
<td>Project will provide the region with a more stable supply of essential refined petroleum products. Further, the pipeline will provide the region with a safer and more environmentally-sound way of transporting petroleum products</td>
</tr>
<tr>
<td>MONTERRA ENERGY – (REV 11/17)</td>
<td>Monterra del Centro Pipeline</td>
<td>Project includes construction of pipeline</td>
<td>167 miles</td>
<td>18 inches</td>
<td>Tuxpan, Veracruz - Tula, Hidalgo</td>
<td>100 Mbpd</td>
<td>Project is in the development stage</td>
<td>Pipeline will run parallel to TransCanada’s natural gas pipeline from Tuxpan to Tula that is currently under construction</td>
</tr>
<tr>
<td>DENBURY RESOURCES – (REV 4/18)</td>
<td>Denbury Pipeline I</td>
<td>Project includes construction of pipeline</td>
<td>110 miles</td>
<td>20 inches</td>
<td>Wyoming - Baker, MT</td>
<td>2.6 Bcf/d</td>
<td>Project filed an application with FERC</td>
<td>Project will transport greenhouse gas carbon dioxide for use in oil production along the North Dakota border to the Cedar Creek anticline, an aging oil field near Baker, MT</td>
</tr>
<tr>
<td>DENBURY RESOURCES – (REV 4/18)</td>
<td>Denbury Pipeline II</td>
<td>Project includes construction of pipeline</td>
<td>250 miles</td>
<td>20 inches</td>
<td>Glendive, MT</td>
<td></td>
<td></td>
<td>Project will link the Shute Creek site to an existing pipeline network that extends into Montana</td>
</tr>
</tbody>
</table>

**OTHER | Americas**

- **U.S.**

<table>
<thead>
<tr>
<th>Company</th>
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<tbody>
<tr>
<td>ENBRIDGE INC. – (6/18)</td>
<td>Big Foot Oil Pipeline</td>
<td>Project includes pipeline construction</td>
<td>40 miles</td>
<td>20 inches</td>
<td>Gulf of Mexico (offshore Louisiana)</td>
<td>100 Mbpd</td>
<td></td>
<td>Project will connect to the Big Foot ultra-deep water development in the Gulf of Mexico</td>
</tr>
<tr>
<td>WILLIAMS COMPANIES INC. – (8/17)</td>
<td>Transcontinental Gas Pipe Line Co. LLC</td>
<td>Central Texas Gathering System Facilities</td>
<td>Project includes pipeline abandonment and construction</td>
<td>40 miles</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
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