



PLANNED PROJECTS In Development

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

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

Diameter: 24 inches
Location: Tuscaloosa, AL
Capacity: 500 MDth/d
Completion: 2019

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 2: 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 MMDth/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

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

DELMARVA PIPELINE CO. – (4/18)

Owner: H4 Capital Partners LLC
Project: Delmarva Pipeline
Type: Project includes pipeline construction
Length: 190 miles
Diameter: 8 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

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

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 - Moblely, 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

Location: Prudhoe Bay - North Pole, AK

Capacity: 19 Bcf/y

Cost: \$1 billion

Status: Project is delayed

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 MMDth/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 – (8/18)

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

MAGNUM 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: Milnor, 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: 27.5 miles

Diameter: 10 inches

Location: Berkley, VA - Martinsburg, WV

Cost: \$45 million

Docket: 15-1256-G-390P

Completion: 2Q 2019

Project: Mountaineer Gas Pipeline Phase II

Segment: Charlestown Loop

Length: 24.5 miles

Status: Project is awaiting WV PSC approval

Project: Mountaineer Gas Pipeline Phase III

Length: 4.4 miles

Status: Project is awaiting WV PSC approval

MOUNTAIN VALLEY PIPELINE LLC – (6/18)

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

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

Completion: 1Q 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

Completion:1Q 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: 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

OUTRIGGER ENERGY II LLC – (6/18)

Project: Tri-stream Midstream System

Type: Project includes wellhead natural gas gathering, a 60 MMcf/d cryogenic processing plant, field compressor stations, crude oil gathering and produced water gathering

Location: Weld County, CO

Comments: System will deliver residue gas to the Cheyenne Plains Pipeline and NGLs will be delivered to the Overland Pass Pipeline

Completion:1Q 2019

NYSEG – (REV 6/17)

Project: DeRuyter Pipeline Replacement

Type: Project includes take up and relay of existing pipeline

Length: 25 miles

Diameter: 10 inches

Location: Norwich, NY – Oneonta, NY

Start: 2019

Completion:2020

PENNEAST PIPELINE CO. LLC – (REV 3/18)

Project: PennEast Pipeline

Type: Project includes construction of an underground pipeline

Length: 120 miles

Diameter: 36 inches

Location: Luzerne County, PA – Mercer County, NJ

Capacity: 1 Bcf/d

Start: 3Q 2018

Completion:2Q 2019

PORT ARTHUR PIPELINE LLC – (REV 8/18)

Project: Port Arthur Pipeline–Louisiana Connector

Type: Project includes construction of a pipeline, compressor station and associated interconnect facilities

Length: 131 miles

Diameter: 42 inches

Location: Calcasieu, Beauregard, Allen, Evangeline and St. Landry Parishes, La and Jefferson County, TX

Capacity: 2 Bcf/d

Completion:3Q 2018

Comments: Project will transport and provide natural gas as an additional feed gas source and provide an additional reliable solution for the delivery of natural gas to the proposed Port Arthur Liquefaction Project

PSNC ENERGY – (6/18)

Project: Buncombe County Pipeline Enhancement Project

Type: Project includes pipeline construction

Length: 12 miles

Diameter: 12 inches

Location: Arden, NC - Enka, NC

Start: 2Q 2019

Completion:4Q 2019

Comments: Project will upgrade the existing Buncombe County natural gas system into compliance with U.S. Department of Transportation regulations

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 will take place across PSE&G'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 – (1/18)

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

SEMCO ENERGY GAS CO. – (REV 9/18)

Project: Marquette Connector Pipeline Project

Type: Project includes construction of pipeline

Length: 42 miles

Diameter: 10 and 20 inches

Location: Arnold, MI - Negaunee Township, MI

Capacity: 144 MMcf/d

Status: Engineering and permitting are currently in progress

Start: 2019

Completion:4Q 2019

SEMPRA ENERGY – (REV 4/18)

Operator: Southern California Gas Co.

Project: Pipeline Safety & Reliability Project - Line 3602

Type: Project includes partial replacement of Line 1600, which entered service in 1949

Length: 43 miles

Diameter: 36 inches

Location: San Diego, CA

Cost: \$600 million

Status: Project is in the planning stage

Operator: Port Arthur LNG Pipeline LLC

Project: Port Arthur Pipeline - Texas Connector

Type: Project includes construction of pipeline

Length: 34 miles

Diameter: 42 inches

Location: Jefferson and Orange counties, TX;

Cameron Parish, LA

Capacity: 2 Bcf/d

Start: 3Q 2021

Completion:3Q 2022

SEMPRA LNG & MIDSTREAM – (3/18)

Owner 2: Boardwalk Pipeline Partners LP, 50%

Project: Permian-Katy Pipeline

Type: Project includes pipeline construction

Length: 520 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

SHELL PIPELINE – (REV 4/18)

Project: Falcon Pipeline

Type: Project includes pipeline construction

Length: 94 miles

Diameter: 12 inches

Location: Pennsylvania, West Virginia and Ohio

Capacity: 107 Mbpd

Status: Project's application is under review

by the Pennsylvania Department of Environmental Protection and the DEP has extended the comment period on water obstruction and encroachment (Chapter 105) permit applications related to the project

Start: 2Q 2019

Comments: Project will collect ethane from MarkWest Energy Partners LP's Houston Processing and Fractionation facility in Washington County, PA and from its Cadiz Complex in Harrison County, OH

SOUTHERN STAR CENTRAL CORP. – (11/17)

Owner 2: NextEra US Gas Assets LLC

Project: Sooner Trails Pipeline Project

Type: Project includes construction of pipeline

Length: 250 miles
Diameter: 36 inches
Location: Bryan County, OK - Lamar County, TX
Capacity: 1.2 MMDth/d
Status: Project has withdrawn its pre-filing application

SPECTRA ENERGY – (REV 7/18)

Owner 2: Eversource Energy
Owner 3: National Grid
Operator: Algonquin Gas Transmission LLC
Project: Access Northeast Project
Type: Project includes replacement of existing pipeline, looping extensions, installation of new pipeline, compressor station modifications and construction of pig launcher and receiver facilities

Length: 96 miles
Diameter: 6 to 12 inches
Location: New York; Connecticut; Massachusetts
Status: Eversource Energy announced that the project is moving forward in New Hampshire

Operator: Algonquin Gas Transmission LLC
Project: Access Northeast Project
Segment: West Boylston Lateral
Type: Project includes construction of a pipeline lateral
Length: 27 miles
Diameter: 16 inches
Location: Milford, Upton, Grafton, Sutton, Shrewsbury, Boylston and West Boylston, MA

Owner 2: ConocoPhillips
Project: TEMAX Project
Type: Project includes construction of pipeline, looping and replacement of compressor stations
Length: 33 miles
Diameter: 24 inches
Location: Clarington, OH - Delta, PA
Capacity: 395 MMcf/d
Cost: \$500 million
Status: Project is preparing to pre-file with FERC
Comments: Project is an expansion of the Texas Eastern Transmission Pipeline System

Operator: Texas Eastern Transmission
Project: Stratton Ridge Project
Type: Project includes modifications of three mainline compressor stations and the installation of two new compressor stations
Location: Brazoria County, TX
Capacity: 322 MDth/d
Status: Project is awaiting an Environmental Assessment
Completion: 2Q 2019

Project: Greater Philadelphia Expansion Project
Type: Project includes replacement of existing pipeline with a larger diameter pipe and adding new pipeline looping
Length: 35 miles
Location: Philadelphia, PA
Capacity: 475 MDth/d

Status: Project is in the evaluation stage
Completion: 2019

Project: Renaissance Gas Transmission Project
Type: Project includes construction of pipeline
Length: 230 miles
Diameter: 24, 30 and 36 inches
Location: Mount Pleasant, TN - Lawrenceville, GA
Capacity: 1.25 Bcf/d
Status: Project is on hold

STEEL REEF INFRASTRUCTURE CORP. – (11/17)

Project: South Saskatchewan Access Pipeline
Type: Project includes pipeline construction
Length: 5 miles
Diameter: 11 inches
Location: Portal, ND – North Portal, SK
Capacity: 900 cm/d
Start: 4Q 2018
Status: Project is undergoing public meetings

Comments: As the pipeline crosses an international border, it requires approval from both the Canadian and U.S. governments

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

Operator: XTO Energy Inc.
Project: Summit Midstream Gathering System
Type: Project includes gathering and processing system construction

Length: 161 miles
Diameter: 48 inches
Location: Eddy and Lea counties, NM
Capacity: 60 MMcf/d
Cost: \$110 million
Status: Project is seeking shipper commitments
Completion: 3Q 2018

TALEN ENERGY CORP. – (10/17)

Project: Montour Lateral
Type: Project includes construction of a pipeline lateral
Length: 15 miles
Diameter: 30 inches
Location: Montour County, PA
Comments: Project will supply natural gas to the Montour Plant

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 (Agua 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

Project: Delaware Basin Processing Expansion
Type: Project includes construction of high pressure rich gas gathering pipelines and two cryogenic natural gas processing plants

Length: 220 miles
Diameter: 12 and 24 inches
Location: Delaware Basin
Capacity: 500 MMcf/d
Completion: 2Q 2020

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

Project: Haynesville Global Access Pipeline
Type: Project includes pipeline construction
Length: 200 miles
Diameter: 42 inches
Location: Northern Louisiana - Gillis, LA
Capacity: 2 Bcf/d
Cost: \$1.4 billion
Completion: 4Q 2022

Operator: Downeast Pipeline LLC
Project: Downeast Pipeline
Type: Project includes construction of pipeline
Length: 30 miles
Diameter: 30 inches
Location: Robbinston, ME
Capacity: 300 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 aboveground facilities
Length: 165 miles
Diameter: 24 inches
Location: Fayette County, OH - Greene County, PA
Status: Project has received a favorable Environmental Assessment

TRANSCANADA 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: 1Q 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

Project: Continent to Coast Expansion Project
Type: Project includes meter station upgrades
Location: Westbrook, MN
Capacity: 300 MMcf/d
Status: Project is currently in the planning stage
Comments: Project is an expansion of the Portland Natural Gas Transmission System and will transport gas into the Maritimes & Northeast Pipeline

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 MMDth/d
Completion: 1Q 2019

Operator: Venture Global Gator Express LLC
Project: Gator Express Pipeline System
Type: Project includes construction of pipeline, looping and appurtenant facilities
Length: 27 miles
Diameter: 42 inches
Location: Plaquemines Parish, LA
Capacity: 1.9 MMDth/d
Status: Project is awaiting an Environmental Impact Statement

WILLIAMS PARTNERS LP – (10/18)

Project: Bluebonnet Market Express Pipeline
Length: 500 miles
Location: Waha, TX – Katy, TX (Transco Zone 2)
Capacity: 2 MM Dth/d
Completion: 4Q 2020
Comments: System will connect Permian Basin supply to growing markets, including Transco markets

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

Capacity: 400 MMcf/d
Completion: 4Q 2019
Comments: FERC has issued a Draft EIS for the project

Operator: Transcontinental Gas Pipe Line Co. LLC
Project: Gateway Expansion Project
Type: 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

Location: Essex County, NJ; Passaic County, NJ

Capacity: 65 MDth/d

Start: 4Q 2019

Completion: 4Q 2020/2021

Status: Project has submitted an application to FERC

Comments: Williams has executed agreements with PSEG Power and UGI Energy Services for firm transportation service under the project

Operator: Steelhead LNG Corp.

Project: Island Gas Connector

Type: Project includes construction of pipeline, meter stations and compressor stations

Length: 80 miles

Diameter: 36 inches

Location: Sumas, WA - Vancouver Island, B.C.

Completion: 4Q 2020

Status: Project is preparing to start the pre-filing process with FERC

Operator: Transcontinental Gas Pipe Line Co. LLC

Project: Riverdale South to Market Project

Type: Project includes pipeline looping, upgrades and existing facility modifications

Length: 11 miles

Location: New Jersey

Capacity: 190 MDth/d

Status: Project submitted an application with FERC for authorization of the project, and has executed precedent agreements with Direct Energy Business Marketing LLC and UGI Energy Services LLC for firm transportation service

Start: 4Q 2018

Completion: 4Q 2019

Comments: Project will help meet the growing heating and power generation demand for northeastern consumers, primarily in New Jersey and New York

XCEL ENERGY – (8/17)

Project: Tungsten to Bobtail Pipeline

Type: Project includes construction of pipeline

Length: 15 miles

Location: Boulder County, CO - Black Hawk, CO

Status: Project is in the planning stages

Start: 2Q 2019

Completion: 3Q 2020

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

Length: 29 miles
Diameter: 24 inches
Location: Coquitlam to Squamish, B.C.
Capacity: .23 Bcf/d
Status: Project is in the pre-application phase
Comments: Project will expand a portion of the existing natural gas transmission system and is associated with the proposed Woodfibre LNG Facility

Contractor: Hedberg & Associates Consulting Ltd.
Type: Project includes access planning, permitting and LiDAR design for pipeline routing
Cost: \$250 million

SPECTRA ENERGY CORP. – (REV 5/17)

Project: Westcoast Connector Gas Transmission Project
Type: Project includes construction of two adjacent pipelines
Length: 528 miles
Diameter: 42 and 48 inches
Location: Cypress, B.C. - Prince Rupert, B.C.
Capacity: 4.2 Bcf/d
Status: Project is on hold

Contractor: FLUOR
Type: Project includes engineering, procurement and construction of the pipeline

TIDEWATER MIDSTREAM AND INFRASTRUCTURE LTD. – (2/18)

Project: Tidewater Pipeline
Type: Project includes pipeline construction
Length: 75 miles
Location: Brazeau River Complex - Sundance and Keephills
Capacity: 130 MMcf/d (initial), 340 MMcf/d (maximum)
Cost: \$150 million
Status: TransAlta Corp. and Tidewater Midstream have entered into a Letter of Intent for the project

Completion: 2020
Comments: Project will facilitate TransAlta's strategy to convert its coal units at Sundance and Keephills to natural gas

TRANSCANADA CORP. – (REV 8/18)

Operator: Coastal GasLink Pipeline Ltd.
Project: Coastal GasLink Pipeline
Type: Project includes construction of pipeline and compressor stations
Length: 416 miles
Diameter: 48 inches
Location: Dawson Creek - Kitimat, B.C.
Capacity: 2.1 Bcf/d
Start: 1Q 2019
Completion: 2Q 2024

Status: Project is awaiting a Final Investment Decision
Comments: TransCanada Corp. has conditionally awarded Surerus Murphy Joint Venture, SA Energy Group, Macro Spiecapag Joint Venture and Pacific Atlantic Pipeline Construction Inc. contracts to

construct the proposed Coastal GasLink Pipeline Project, pending a positive Final Investment Decision

Project: Saddle West Expansion Project
Type: Project includes construction of pipeline looping
Length: 18 miles
Diameter: 36 inches
Location: Saddle Hills County, AB
Comments: System has received approval from the NEB

Operator: NOVA Gas Transmission Ltd.
Project: Peace River Mainline Abandonment
Type: Project includes abandonment of a loop on the existing mainline and the removal of associated above ground facilities
Length: 165 miles
Location: Northwest Alberta
Status: The NEB has approved the project with 22 conditions

Operator: NOVA Gas Transmission Ltd.
Project: Merrick Mainline Project
Type: Project includes construction of pipeline, a meter station, mainline valve sites, launcher and receiver facilities, cathodic protection facilities and miscellaneous work

Length: 161 miles
Diameter: 48 inches
Location: Summit Lake, BC – Peace River, BC
Capacity: 2 Bcf/d
Status: Project has applied with the NEB and is currently on hold

Operator: NOVA Gas Transmission Ltd.
Project: 2021 NGTL System
Type: Project includes pipeline construction
Length: 218 miles
Diameter: 48 inches
Location: Grande Prairie, AB - Municipal District of Greenview No. 16 - Yellowhead County, AB - Clearwater County, AB

Status: Project is undergoing an open season and evaluating potential routes
Start: 2Q 2020
Completion: 2Q 2021
Comments: Project will start in northwest Alberta and run along the west path of the existing NGTL System, from the northwest Alberta southeast towards Rocky Mountain House, which will increase natural gas transportation service on the system

Operator: NOVA Gas Transmission Ltd.
Project: 2019 NGTL Expansion
Type: Project includes construction of pipeline, compression enhancements at five compressor stations, new meter stations and other associated facilities

Length: 171 miles
Diameter: 48 inches
Location: Alberta and British Columbia
Capacity: 3 Bcf/d
Cost: \$2.4 billion
Status: Project is preparing to file an application with the NEB

Start: 1Q 2019
Completion: 2Q 2021
Comments: Project is in addition to the current \$5.1 billion near-term capital program for the NGTL System

Operator: NOVA Gas Transmission Ltd.
Project: 2018 NGTL Expansion
Type: Project includes construction of pipeline, one new compressor, new and expanded meter stations, and other associated facilities
Length: 55 miles
Diameter: 20 to 48 inches
Location: Alberta and British Columbia
Capacity: 2.7 Bcf/d
Cost: \$570 million

Operator: Prince Rupert Gas Transmission Ltd.
Project: Prince Rupert Gas Transmission Pipeline
Type: Project includes construction of pipeline
Length: 560 miles
Diameter: 36 and 48 inches
Location: Hudson's Hope, B.C. - Lelu Island
Capacity: 2 Bcf/d
Status: Project has received regulatory approval and is currently awaiting a final investment decision

SPECTRA ENERGY – (REV 7/17)

Operator: Westcoast Energy Inc.
Project: Wyndwood Pipeline Expansion Project
Type: Project includes construction of pipeline looping and associated facilities
Length: 17 miles
Diameter: 36 inches
Location: Chetwynd, B.C.
Capacity: 50 MMcf/d
Status: Project is awaiting NEB approval

MEXICO

ENGIE – (8/17)

Project: Energia Mayakan Pipeline Extension
Type: Project includes construction of pipeline
Length: 99 miles
Diameter: 16 to 24 inches
Location: Valladolid, Yucatan - Quintana Roo
Cost: \$300 million
Status: Project is in the planning stage
Completion: 1Q 2020

CARIBBEAN SOUTH & CENTRAL AMERICA

PAMPA ENERGÍA – (REV 6/18)

Operator: Transportadora de Gas del Sur
Project: Vaca Muerta Pipeline
Type: Project includes construction of a pipeline and gas treatment plant
Length: 57 miles
Location: Anelo - Tratayen
Capacity: 1.3 Bcf/d
Status: Project is awaiting regulatory approval
Comments: Transportadora de Gas del Sur has invested \$250 million for the project

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

NGL | Americas

U.S.

ANDEAVOR LOGISTICS LP – (REV 5/18)

Project: North Dakota Logistics Hub
Type: Project includes construction of 44 miles of pipeline and conversion of 42 miles of pipeline from oil to NGL
Length: 86 miles
Diameter: 16, 20 inches
Location: McKenzie, Billings and Stark counties, ND
Capacity: 15 Mbpd (initial), 34 Mbpd (maximum)
Completion: 1Q 2019
Comments: Project will transport mixed natural gas liquids from the Watford City area to an Andeavor gas processing plant near Belfield, where the liquids would be separated into products such as ethane, propane, butane and natural gasoline

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 Mbpd
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 Mbpd
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: 530 miles
Diameter: 24 and 30 inches
Location: Oklahoma - Mont Belvieu, TX
Capacity: 400 Mbpd (initial), 1 MMbpd (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

Project: Elk Creek Pipeline
Type: Project includes pipeline construction
Length: 900 miles
Diameter: 20 inches
Location: Sidney, MT - Bushton, KS
Capacity: 240 Mbpd (initial)
400 Mbpd (maximum)

Cost: \$1.2 billion (pipeline)
\$200 million (related facilities)
Status: Project is in the planning stage
Completion: 4Q 2019
Comments: Project will transport NGLs from the Rocky Mountain region to the company's existing Mid-Continent NGL facilities

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: \$1.8 million
Start: 4Q 2018
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

Segment: Mont Belvieu Pipeline
Type: Project includes bi-directional pipeline construction
Length: 230 miles
Diameter: 20 inches
Location: El Centro Fractionator - Mont Belvieu
Capacity: 250 Mbpd

Segment: Markham Pipeline
Type: Project includes bi-directional pipeline construction
Length: 116 miles
Diameter: 16 inches
Location: El Centro Fractionator - Markham Storage
Capacity: 175 Mbpd

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: Skellytown, TX - Mont Belvieu, TX
Capacity: 90 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

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

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

Contractor: Contract Land Staff LLC
Type: Project includes land management for the project

Contractor: Apex TITAN Inc.
Type: Project includes environmental services for the project

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

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

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

Contractor: SA Energy Group
Type: Contract includes constructing 57 miles of pipeline for Spread 8 and constructing 60 miles of pipeline for Spread 9
Length: 117 miles
Location: Brandon, MB – Morden, MB
Comments: Recently, under Phase 1 of the Line 3 Replacement Project, SA Energy Group successfully completed Spreads 3 and 4 (162 miles) in Saskatchewan

Project: Line 5 Pipeline Replacement
Type: Project includes replacement of a portion of pipeline that runs under the St. Clair River
Length: .6 miles
Diameter: 30 inches
Location: Little Rock, AR
Status: Project is working to secure the proper state and federal permits for the project
Comments: Enbridge's Line 5 is a 645-mile, 30-inch pipeline that travels through Michigan's Upper and Lower Peninsulas, originating in Superior, WI, and terminating in Sarnia, ON

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,

terminal 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 Mbph
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

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

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

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 the

shutdown and decommissioning of the Drift River Terminal

KINGFISHER 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 Mbpd (initial), 175 Mbpd (maximum)
Completion: 2Q 2019
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 Mbpd (initial)
 600 Mbpd (maximum)
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: 632 miles
Diameter: 12 inches
Location: St. James, LA - Patoka, IL
Capacity: 300 Mbpd (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 Pipe Line LLC
Project: Cushing-to-Patoka Expansion Project

Type: (Ozark Pipeline Expansion)
 Project includes the expansion of an existing pipeline system
Location: Cushing, OK - Wood River, IL
Capacity: 115 Mbpd
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 Mbpd

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 Mbpd
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 Mbpd

ONEOK BAKKEN PIPELINE LLC – (REV 3/17)

Project: Bakken Expansion II Loop Project
Type: Project includes construction of pipeline
Length: 58 miles
Diameter: 16 inches
Location: Alexander, ND and Ft. Laramie, FL
Capacity: 160 Mbpd
Status: Project has been delayed

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 Mbpd (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

Project: Ace Pipeline
Type: Project includes pipeline construction
Length: 94 miles
Location: St. James Parish, LA - St. Bernard Parish, LA
Start: 4Q 2018
Completion: 4Q 2019
Comments: System will run to the Phillips 66 Alliance Refinery and cross the Mississippi River to serve refineries in St. Bernard Parish

PLAINS ALL AMERICAN PIPELINE LP – (REV 5/18)

Project: Sunrise Pipeline System Expansion
Type: Project includes construction of pipeline and utilization of existing pipeline
Length: 180 miles

Diameter: 24 inches
Location: Colorado City, TX - Wichita Falls, TX
Capacity: 120 Mbpd
Start: 4Q 2018
Completion: 2Q 2019
Comments: Project includes capacity expansions to the existing Delaware Basin system of up to 200 Mbpd

Contractor: Holloman Corp.
Type: Project includes pipeline construction

Contractor: Energy Services South LLC
Type: Project includes pipeline construction

Project: Line 901/903 Replacement
Type: Project includes replacement of an existing 24-inch pipeline and installation of a new pump station to reduce the operating pressure of the system
Length: 125 miles
Diameter: 12 and 20 inches
Location: Santa Barbara, San Luis Obispo and Kern counties, CA
Comments: Plains is also proposing to replace the connecting pipeline, Line 903, which spans from Sisquoc to Pentland Delivery Point in Kern County, CA

Project: Permian Basin to Cushing Pipeline
Type: Project includes construction of pipeline and utilization of existing pipeline
Location: Midland, TX - Cushing, OK
Capacity: 350 Mbpd
Status: Project is undergoing an open season
Completion: 2Q 2019

PSNC ENERGY CO. – (5/18)

Project: T-030 Gas Pipeline Extension
Type: Project includes pipeline construction
Length: 37 miles
Diameter: 20 inches
Location: Franklinton, NC - Clayton, NC
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 recommissioning the western segment of Southern Trails Pipeline to transport crude oil
Length: 96 miles
Diameter: 16 inches
Location: Whitewater, CA - Long Beach, CA
Capacity: 140 Mbpd
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: Zydeco Pipeline Co. LLC
Owner 2: Shell Midstream Partners LP
Project: Houma - St. James Pipeline
Type: Project includes construction and

replacement of large diameter pipeline
Length: 40 miles
Diameter: 24 inches
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 Mbpd
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

Location: Fort Simpson, Northwest Territories
Status: Project has received conditional NEB approval

KINDER MORGAN ENERGY PARTNERS – (10/17)

Operator: Trans Mountain Pipeline LLC
Project: Trans Mountain Expansion
Type: Project includes construction of twinned pipeline, 12 new pump stations and 20 tanks

Length: 608 miles
Diameter: 30 to 36 inches
Location: Edmonton - Vancouver
Capacity: 590 Mbbpd

Contractor: EVRAZ North America
Type: Project includes pipe supply
Length: 497 miles

Contractor: Midwest Pipelines Inc.
Type: Project includes construction of spreads 1 & 2 of the pipeline (Edmonton/ Yellowhead)

Contractor: Ledcor Sicim Limited Partnership
Type: Project includes construction of spreads 3 & 4 of the pipeline (North Thompson)

Contractor: Surerus Murphy Joint Venture
Type: Project includes construction of spread 5A of the pipeline (BC Interior)

Contractor: Spiecapag Canada Corp.
Segment: Spread 5B (Coquihalla – Hope)
Type: Contract includes pipeline construction
Length: 53 miles
Diameter: 36 inches

Contractor: Somerville-Aecon Energy Group
Type: Project includes construction of spread 6 (Fraser Valley)

Contractor: Kiewit Ledcor TMEP Partnership
Type: Project includes construction of spread 7 of the pipeline, Burnaby Mountain tunnel and three terminals (Westridge Marine Terminal, Burnaby Terminal and the Sumas Terminal)

TRANSCANADA CORP. – (REV 11/17)

Project: Keystone XL Project
Type: Project includes construction of pipeline
Length: 1,179 miles
Diameter: 36 inches
Location: Hardisty, AB - Steele City, NE
Capacity: 830 Mbbpd
Cost: \$7 billion
Filing: A21262
Status: Project has launched an open season

PRODUCTS | Americas

U.S.

BUCKEYE PARTNERS LP – (1/18)

Operator: Buckeye Pipe Line Company LP
Project: Line 602 Expansion Project

Type: Project includes pipeline expansion on the existing system
Capacity: 12 Mbbpd (minimum), 30 Mbbpd (maximum)
Status: Project is undergoing an open season
Completion: 4Q 2019
Comments: The existing Line 602 Project transports refined petroleum products from Linden, NJ to destination points in Inwood and Long Island City, NY

DOMINION RESOURCES INC. – (7/16)

Project: Sweden Valley Project
Type: Project includes pipeline construction, compressor station modifications and new metering and regulation facilities

Capacity: 120 MDth/d
Cost: \$48 million
Status: Project is preparing to file an application for a Certificate of Public Convenience and Necessity with FERC

Completion: 4Q 2019
Comments: Project will help meet growing demand for natural gas to serve Midwest markets

ENERGY TRANSFER PARTNERS LP – (6/18)

Type: Project includes pipeline construction
Location: Hebert, TX - Midland, TX
Capacity: 30 Mbbpd
Completion: 4Q 2020
Comments: Project will transfer diesel fuel from existing Sunoco Pipeline assets to a newly constructed terminal in Midland, TX

FORMOSA PLASTICS GROUP – (7/17)

Contractor: Strike LLC
Project: Formosa Expansion Project
Type: Project includes construction of pipeline
Length: 186 miles
Diameter: 8, 10 and 16 inches
Location: Point Comfort, TX
Capacity: 46 Mbbpd

HOLLY ENERGY PARTNERS LP – (9/18)

Project: Orla to Midland Refined Product Pipeline
Type: Project includes pipeline construction
Location: Orla, TX - Midland, TX
Capacity: 40 Mbbpd
Status: Project is currently undergoing a feasibility study
Completion: 3Q 2019

Comments: Project is part of HEP's continuous efforts to serve the growing distillate demand in the Permian Basin with additional infrastructure projects

Contractor: AECOM
Type: Contract includes a feasibility study

HOWARD ENERGY PARTNERS LP – (REV 6/17)

Operator: GT Pipeline LLC
Project: Sabine Bayou Line Project
Type: Project includes construction of pipeline
Length: 6 miles
Diameter: 16 and 20 inches
Location: Port Arthur, TX
Capacity: 308 Mbbpd
Status: Project is undergoing an open season

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
Length: 360 miles
Diameter: 16 and 20 inches
Location: South Carolina - Florida
Capacity: 167 Mbbpd
Cost: \$1.1 billion
Docket: OR15-13
Status: Project is delayed

MAGELLAN MIDSTREAM PARTNERS LP – (REV 7/18)

Project: Magellan Refined Products Pipeline
Type: Project includes an expansion of the western leg of its refined products pipeline system
Capacity: 50 Mbbpd (initial), (70 Mbbpd) maximum
Completion: 2Q 2020
Comments: Expansion would increase Magellan's capability to transport refined petroleum products, such as gasoline and diesel fuel, from Gulf Coast refineries to demand centers in Abilene, Midland/Odessa and El Paso, TX, with further optionality to access markets in the states of New Mexico and Arizona, as well as international markets in Mexico via connections to other pipelines owned by Magellan and third parties

Project: V-Tex Project Phase I
Type: Work scope includes the expansion and reversal of an existing refined petroleum products pipeline system

Length: 135 miles
Diameter: 42 inches
Location: Houston, TX - Hearne, TX
Capacity: 85 Mbbpd
Completion: 2Q 2019

Comments: Project will provide 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

Project: V-Tex Project Phase II
Type: Work scope includes the expansion and reversal of an existing refined petroleum products pipeline system

Length: 70 miles
Diameter: 12 inches
Location: Hearne, TX - Williamson County, TX
Capacity: 85 Mbbpd
Completion: 2Q 2019

Project: Corpus Christi to Brownsville Pipeline
Type: Project involves pipeline construction
Length: 150 miles
Diameter: 16 inches
Location: Corpus Christi, TX - Brownsville, TX

Capacity: 150 Mbpd
Status: Project contract is out for bid
Start: 3Q 2018
Comments: Project will transport gasoline, diesel fuel, propane and condensate from Magellan's terminal in Corpus Christi, TX to TransMontaigne's terminal in Brownsville, TX

PILGRIM PIPELINE HOLDINGS LLC – (REV 3/18)

Project: Pilgrim Pipeline
Type: Project includes construction of parallel pipelines
Length: 356 miles
Diameter: 24 inches
Location: Port of Albany, NY – Linden, NJ
Capacity: 400 Mbpd
Cost: \$900 million
Status: Project is delayed
Comments: Project will provide the region with a more stable supply of essential refined petroleum products. Further, the pipeline will provide the region with a far safer and more environmentally-sound way of transporting petroleum products

MEXICO

INVEX GRUPO INFRAESTRUCTURA, S.A.P.I. DE C.V. – (4/18)

Project: Tajin Pipeline Project
Type: Project includes pipeline and storage terminal construction
Length: 165 miles
Diameter: 20 inches
Location: Tuxpan, Veracruz - Mexico Valley
Capacity: 165 Mbpd
Status: Project is out for bids
Comments: Project will give the Mexico Valley area access to the import markets from the U.S., Europe and the Caribbean

MONTERRA ENERGY – (REV 11/17)

Owner 1: TransCanada Corp. (50%)
Owner 2: Sierra Oil and Gas (40%)
Owner 3: Grupo TMM (10%)
Project: Monterra del Centro Pipeline
Type: Project includes construction of pipeline
Length: 167 miles
Diameter: 18 inches
Location: Tuxpan, Veracruz - Tula, Hidalgo
Capacity: 100 Mbpd
Status: Project is in the development stage
Completion: 3Q 2018
Comments: Pipeline will run parallel to TransCanada's natural gas pipeline from Tuxpan to Tula that is currently under construction

OFFSHORE | Americas

U.S.

ENBRIDGE INC. – (6/18)

Project: Big Foot Oil Pipeline
Type: Project includes pipeline construction
Length: 40 miles
Diameter: 20 inches
Location: Gulf of Mexico (offshore Louisiana)
Capacity: 100 Mbpd
Comments: Project will connect to the Big Foot ultra-deep water development in the Gulf of Mexico

WILLIAMS COMPANIES INC. – (8/17)

Operator: Transcontinental Gas Pipe Line Co. LLC
Project: Central Texas Gathering System Facilities
Type: Project includes pipeline abandonment and construction
Length: 40 miles

Diameter: 20 inches
Location: offshore Texas (Brazos Block A-133A to Brazos Block 538)
Capacity: 2.6 Bcf/d
Status: Project filed an application with FERC

OTHER | Americas

U.S.

DENBURY RESOURCES – (REV 4/18)

Project: Denbury Pipeline I
Type: Project includes construction of pipeline
Length: 110 miles
Diameter: 20 inches
Location: Wyoming - Baker, MT
Start: 3Q 2019
Comments: 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

Project: Denbury Pipeline II
Type: Project includes construction of pipeline
Length: 250 miles
Diameter: 20 inches
Location: Glendive, MT
Start: 3Q 2019
Comments: Project will link the Shute Creek site to an existing pipeline network that extends into Montana