GAS – The Americas

U.S.

AES OCEAN EXPRESS LLC – (12/17)
Project: Ocean Express Pipeline
Type: Project includes pipeline construction
Length: 55 miles
Diameter: 24 inches
Location: Bahamas - Broward County, FL
Capacity: 842 MMCf/d
Docket: CP02-90
Status: Project is awaiting regulatory approval
Comments: Project will deliver gas to the Florida Power & Light Lauderdale Power Plant

ALASKA GASLINE DEVELOPMENT CORP. – (REV 6/17)
Project: Alaska Stand Alone Pipeline
Type: Project includes construction of a transmission pipeline and lateral
Length: 763 miles
Diameter: 12 and 36 inches
Location: Prudhoe Bay, AK – Nikiski, AK
Capacity: 500 MMCf/d
Cost: $10 billion
Start: 2019
Completion: 2023
Status: Project is awaiting a Supplemental Environmental Impact Statement
Comments: Pipeline is part of the proposed Alaska LNG Project

ALLIANCE PIPELINE – (5/17)
Project: Pacific Alliance Pipeline Expansion
Type: Project includes addition of compression facilities
Location: Chicago, IL
Capacity: 500 MMCf/d
Contact: Jason Feit
Manager, Asset Optimization and Development
Status: Project is undergoing an economics study with a decision on next steps anticipated by 3Q 2017
Completion: 4Q 2020

AMEREN ILLINOIS – (3/18)
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
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 MDDth/d
Status: Project is in the bid phase
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 3/18)
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
Cost: $925 million
Docket: CP13-499
Status: FERC has denied the system’s water permit petition

CHENIERE ENERGY INC. – (REV 4/18)
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
Docket: CP17-458
Status: FERC has issued a Draft EIS for the project
Start: 3Q 2018
Completion: 1Q 2019

DCP MIDSTREAM – (11/17)
Project: Cimarron Expansion
Type: Project includes pipeline construction
Length: 48 miles
Diameter: 20 and 30 inches
Location: Beaver County, OK
Start: 2Q 2019
Comments: Project will run from the Beaver Station and end at DCP’s National Helium Gas Processing Plant

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 – (4/18)
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
Diameter: 12, 16
Location: Farmington, NM – Long Beach, CA
Status: Project has filed with FERC
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
Docket: CP17-118
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
Length: 20 miles
Diameter: 12 inches
Location: Matagorda and Wharton counties, TX; Acadia Parish, LA
Capacity: 275 MMdth/d
Cost: $68.9 million
Docket: CP17-8
Status: Project is awaiting an Environmental Assessment

GULF COAST EXPRESS PIPELINE LLC – (REV 4/18)
Owner 1: Kinder Morgan Inc., 50%
Owner 2: DCP Midstream LP, 25%
Owner 3: Targa Resources Corp., 25%

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IROQUOIS GAS TRANSMISSION SYSTEM LP – (6/17)

**Project**: Wright Interconnect Project  
**Type**: Project includes construction of a compression facility and facility modifications  
**Location**: Wright, NY  
**Capacity**: 650 MMBtu/d  
**Docket**: CP13-502  
**Completion**: 2Q 2018  
**Comments**: Project is being developed in conjunction with the proposed Constitution Pipeline

KINDER MORGAN INC. – (REV 3/18)

**Owner**: Southern Co.  
**Operator**: Southern Natural Gas Co. LLC  
**Project**: Fairburn Expansion Project  
**Type**: Project includes construction of a pipeline lateral, pipeline looping and a compressor station  
**Length**: 7 miles  
**Diameter**: 30 inches  
**Location**: Atlanta, GA  
**Capacity**: 543 MMbbl/d  
**Cost**: $240 million  
**Docket**: CP17-47  
**Status**: Project is awaiting FERC approval  
**Completion**: 2018

**Project**: SK Pipeline  
**Type**: Project includes construction of pipeline and additional compressor facilities  
**Length**: 40 miles  
**Diameter**: 30 inches  
**Location**: West Columbia, TX - Stratton Ridge, TX  
**Capacity**: 200 MMbbl/d  
**Cost**: $150 million  
**Start**: 4Q 2017  
**Completion**: 3Q 2019  
**Comments**: Project will support Train III export capacity as part of the Freeport LNG Export Project

**Operator**: Kinder Morgan Louisiana Pipeline LLC  
**Project**: Lake Charles Expansion Project  
**Type**: Project includes installation of new compression facilities and header pipelines  
**Length**: 1.5 miles  
**Diameter**: 24 and 26 inches  
**Location**: Evangeline Parish, LA  
**Capacity**: 1.4 MMbbl/d  
**Docket**: CP14-511  
**Status**: Project is awaiting FERC approval  
**Completion**: 2018

**Comments**: Project includes reconfiguration of an existing pipeline system to accommodate natural gas service at the proposed Magnolia LNG terminal

LIBERTY UTILITIES – (2/18)

**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

MONTANA-DAKOTA UTILITIES – (11/17)

**Project**: Doosan Bobcat Pipeline  
**Type**: Project includes pipeline construction  
**Length**: 21 miles  
**Diameter**: 12 inches  
**Location**: Minn. - Gwin, 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**: Berks. - Martinsburg, WV  
**Cost**: $54 million  
**Docket**: 15-126-G-390P  
**Completion**: 2Q 2019

**Project**: Mountaineer Gas Pipeline Phase II  
**Segment**: Charles town 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

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

**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

NATIONAL FUEL GAS SUPPLY CORP. – (REV 6/17)

**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 MMbbl/d  
**Cost**: $455 million  
**Docket**: CP15-115  
**Status**: New York DEC denied the project’s permit, so the project is on hold

NATURAL GAS PIPELINE CO. OF AMERICA LLC – (5/18)

**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 MMbbl/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**: 50 miles  
**Diameter**: 30 inches  
**Location**: Ocean, Burlington and Monmouth counties, NJ  
**Cost**: $310 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 MMbbl/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 6/17)

**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
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
- **Cost:** $1 billion
- **Docket:** CP15-558
- **Status:** FERC has approved the project and site evaluation reports have begun
- **Start:** 3Q 2018
- **Completion:** 2Q 2019

**NEXTERA ENERGY INC. – (10/17)**

- **Operator:** Florida Southeast Connection LLC
- **Project:** Okeechobee Lateral Project
- **Type:** Project includes construction of a pipeline lateral, receiver and launcher and other associated facilities
- **Length:** 5.2 miles
- **Diameter:** 24 inches
- **Location:** Okeechobee County, FL
- **Cost:** $30 million
- **Docket:** CP17-463
- **Status:** FSC has engaged in discussions with property owners along the pipeline route regarding the acquisition of an easement across the portion of their properties needed for pipeline construction and operations
- **Start:** 3Q 2018
- **Completion:** 1Q 2019
- **Comments:** Project will transport natural gas from the main, 126-mile FSC pipeline in central Florida to a new Florida Power & Light Co. power plant currently under construction

**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
- **Cost:** $10 billion
- **Docket:** PF17-4
- **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

**PAIUTE PIPELINE CO. – (10/17)**

- **Project:** 2018 Expansion Project
- **Type:** Project includes pipeline replacement and pipeline looping
- **Length:** 8.4 miles
- **Diameter:** 12 and 20 inches
- **Location:** Douglas and Lyon counties, NE
- **Capacity:** 4.6 MDth/d
- **Cost:** $17.9 million
- **Docket:** CP17-471
- **Status:** Project is awaiting an Environmental Assessment
- **Comments:** Project is an expansion of the existing Carson and South Tahoe laterals

**NYSEG – (REV 6/17)**

- **Project:** Defuyter Pipeline Replacement
- **Type:** Project includes take up and relay of existing pipeline
- **Length:** 25 miles

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PLANNED Projects in development

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: 3Q 2022
Comments: The upgrades will 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 ENERTRANS 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
Cost: $86 million
Docket: CP18-6
Status: Project has filed with FERC
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.

SABAL TRAIL TRANSMISSION LLC – (REV 11/17)
Owner 1: Spectra Energy Partners LP
Owner 2: NextEra Energy Inc.
Owner 3: Duke Energy Corp.
Project: Southeast Market Pipelines Project
Segment: Sabal Trail Pipeline Project (Phases II and III)
Type: Project includes installation of new compressor stations and expansion of existing compressor stations
Location: Florida and Alabama
Capacity: 800 MMcf/d (additional)
Docket: CP15-17
Status: Phase I is in service and FERC has prepared a Draft Supplemental Environmental Impact Statement for the remaining two phases
Comments: The existing Sabal Trail Pipeline (1 Bcf/d capacity) extends 515 miles from the Transcontinental Gas Pipeline in Alabama to the central Florida hub near Orlando, where it meets with the Florida Gas Transmission system and the Gulfstream Natural Gas System. The Southeast Market Pipelines Project includes Transcontinental Gas Pipe Line Co. LLC’s Hillabee Expansion Project and NextEra’s Florida Southeast Connection.
Completion: 4Q 2021

SEMCO ENERGY GAS CO. – (11/17)
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
Cost: $135 million
Status: Michigan regulators have approved the project and construction is on hold until all necessary easements and permits have been acquired
Start: 2020

SEMPRA ENERGY – (REV 10/17)
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 stages

SOUTHERN STAR CENTRAL CORP. – (11/17)
Project Manager: MarkWest Energy Partners LP’s Houston Processing and Fractionation facility in Washington County, PA and from its Cadiz Complex in Harrison County, OH

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 Mbdp
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 CO. – (9/17)
Operator: Virginia Natural Gas
Project: Southside Connector Distribution Project
Length: 9 miles
Diameter: 24 inches
Location: Norfolk, VA – Chesapeake, VA
Start: 4Q 2017
Completion: 3Q 2018
Contact: Les Flora
Project Manager
(757) 616-7545
x211@SouthernCo.com
Comments: Project will provide a more reliable connection between the Hampton Roads region’s two main gas supply lines

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 MMcf/d
Docket: PF15-30
Status: Project has withdrawn its pre-filing application

SPECTRA ENERGY – (8/17)
Owner 2: ConocoPhillips
Project: TEMAX Project
Type: Project includes construction of pipeline, looping and replacement of compressor stations
Length: 53 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
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
Capacity: 925 MMcf/d
Docket: PF16-1
Status: Project has been delayed indefinitely

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

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: 522 MMcf/d
Cost: $594 million
Docket: CP17-57
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 MMcf/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

SPRING RIDGE Constructors LLC – (3/17)
Contractor: Rockford Corp.
Type: Project includes construction of pipeline
Length: 177 miles
Diameter: 20, 36 and 42 inches
Location: Virginia and North Carolina
Cost: $680 million
Start: 2018
Completion: 2020

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)
Operator: XTO Energy Inc.
Project: Summit Midstream Gathering System
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
PLANNED Projects in development

**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
Docket: CP17-6
Status: Project has received a favorable Environmental Assessment

**TELLURIAN INC. – (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

**TALLGRASS ENERGY PARTNERS LP – (REV 2/18)**
Project: Permian Global Access Pipeline
Type: Project includes pipeline construction
Length: 625 miles
Diameter: 28 inches
Location: Pecos County, TX - Midland, TX - Gillis, LA
Capacity: 2 Bcf/d
Cost: $5.7 billion
Completion: 4Q 2022
Comments: Project will have deliveries to the Creole Trail Pipeline, Cameron Interstate Pipeline, Trunkline Gas Co., Texas Eastern, Transco, Tennessee Gas Pipeline, Florida Gas Transmission and DWPL

**VENTURE GLOBAL LNG – (REV 8/17)**
Operator: TransCameron Pipeline LLC
Project: TransCameron East Lateral
Type: Project includes construction of pipeline
Length: 30 miles
Diameter: 30 inches
Capacity: 2 Bcf/d
Status: Project is seeking shipper commitments

**WBI ENERGY INC. – (REV 8/17)**
Project: Valley Expansion Pipeline Project
Type: Project includes construction of pipeline, interconnect facilities, an electric compressor station, replacement of two existing town border stations and the construction a regulator station
Length: 38 miles
Diameter: 16 inches
Location: Clay County MN, Cass, Burke, Stutsman and Barnes counties, ND
Capacity: 40 MMcf/d
Cost: $60 million
Docket: PF16-10
Completion: 3Q 2018

**WILLIAMS PARTNERS LP – (REV 2/18)**
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 MMcf/d
Docket: CP18-18
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

**TALEN ENERGY CORP. – (10/17)**
Project: Montour Lateral
Type: Project includes construction of a pipeline lateral
Length: 1 mile
Diameter: 30 inches
Location: Montour County, PA
Capacity: 2 Bcf/d
Status: Project is in the early stages
Start: 2Q 2018
Comments: Project will supply natural gas to the Montour Plant

**TALLGRASS ENERGY PARTNERS LP – (REV 2/18)**
Operator: Columbia Pipeline Group Inc.
Project: Eastern Panhandle Expansion
Type: Project includes pipeline construction
Length: 4 miles
Diameter: 8 inches
Location: Martinsburg, WV
Capacity: 47 MDth/d
Docket: CP17-70
Status: Project is undergoing an Environmental Assessment
Start: 2Q 2018
Comments: Project will provide firm transportation service to markets in West Virginia through Mountaineer Gas Co’s gathering system

**TELLURIAN INC. – (2/18)**
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
Status: Project is undergoing an open season
Completion: 4Q 2022
Comments: Project will have deliveries to the Creole Trail Pipeline, Cameron Interstate Pipeline, Trunkline Gas Co., Texas Eastern, Transco, Tennessee Gas Pipeline, Florida Gas Transmission and DWPL

**VENTSJ GLOBAL LNG – (REV 8/17)**
Operator: TransCameron Pipeline LLC
Project: TransCameron East Lateral
Type: Project includes construction of pipeline
Length: 7 miles
Diameter: 8 inches
Capacity: 2 MMcf/d
Cost: $344.5 million
Contact: Fory Musser
Senior Vice President, Corporate Development
fmusser@venturegloballng.com
Docket: CP17-441
Status: Project filed with FERC and is currently awaiting approval
Completion: 1Q 2019
Comments: Project is awaiting an Environmental Impact Statement

**WBI ENERGY INC. – (REV 8/17)**
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
Cost: $284 million
Status: Project is undergoing an Environmental Assessment
Completion: 1Q 2019
Comments: Project is awaiting an Environmental Impact Statement

**WILLIAMS PARTNERS LP – (REV 2/18)**
Operator: Columbia Pipeline Group
Project: Montour Lateral
Type: Project includes construction of a pipeline lateral
Length: 1 mile
Diameter: 30 inches
Location: Montour County, PA
Capacity: 2 Bcf/d
Status: Project is in the early stages
Start: 2Q 2018
Comments: Project will supply natural gas to the Montour Plant

**WBI ENERGY INC. – (REV 8/17)**
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 MMcf/d
Docket: CP18-18
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

**WILLIAMS PARTNERS LP – (REV 2/18)**
Operator: Transcontinental Gas Pipe Line Co. LLC
Project: Gateway Expansion Project
Type: Project includes construction of pipeline
Length: 1 mile
Diameter: 30 inches
Location: Montour County, PA
Capacity: 2 Bcf/d
Status: Project is in the early stages
Start: 2Q 2018
Comments: Project will supply natural gas to the Montour Plant

**WBI ENERGY INC. – (REV 8/17)**
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
Cost: $284 million
Status: Project is undergoing an Environmental Assessment
Completion: 1Q 2019
Comments: Project is awaiting an Environmental Impact Statement

**WILLIAMS PARTNERS LP – (REV 2/18)**
Operator: Columbia Pipeline Group
Project: Montour Lateral
Type: Project includes construction of a pipeline lateral
Length: 1 mile
Diameter: 30 inches
Location: Montour County, PA
Capacity: 2 Bcf/d
Status: Project is in the early stages
Start: 2Q 2018
Comments: Project will supply natural gas to the Montour Plant
Status: Project has filed with FERC
Start: 2Q 2019
Completion: 4Q 2019
Comments: Project has executed firm agreements with Puget Sound Energy to expand delivery capabilities of the existing lateral, which serves PSE customers

Operator: Northwest Pipeline LLC
Project: North Fork Nooksack Line Lowering Project
Type: Project includes pipeline removal and replacement
Length: 7 miles
Diameter: 30 inches
Location: Whatcom County, WA
Docket: CP17-133
Status: Project is preparing to start the pre-filing process with FERC

Project: North Fork Nooksack Line Lowering Project
Type: Project includes pipeline removal and replacement
Length: 7 miles
Diameter: 30 inches
Location: Whatcom County, WA
Docket: CP17-133
Status: Project is awaiting an Environmental Assessment

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: 4 Q2020
Status: Project is preparing to start the pre-filing process with FERC

Operator: Transcontinental Gas Pipe Line Co. LLC
Project: Rivervale South to Market Project
Type: Project includes construction of pipeline, upgrades and existing facility modifications
Length: 11 miles
Location: New Jersey
Capacity: 190 MMcf/d
Cost: $127 million
Docket: CP17-490
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

Operator: Transcontinental Gas Pipe Line Co. LLC
Project: St. James Supply Lateral
Type: Project includes construction of pipeline, compressor stations and a pig receiver site
Length: 7 miles
Diameter: 20 inches
Location: St. James Parish, LA
Capacity: 161.5 MMcf/d
Docket: CP17-58
Status: Project is awaiting an Environmental Assessment
Completion: 2020

Operator: Transcontinental Gas Pipe Line Co. LLC
Project: Northeast Supply Enhancement
Type: Project includes construction of pipeline looping, upgrades and existing facility modifications
Length: 35 miles
Diameter: 26 and 42 inches
Location: New York Bay; Lancaster County, PA; Middlesex County, NJ
Capacity: 400 MMcf/d
Cost: $926.5 million
Docket: CP17-101
Status: Project has filed with FERC
Start: 2Q 2018
Completion: 4Q 2019

Operator: Williams Northwest Pipeline LLC
Project: Washington Expansion Project
Type: Project includes construction of pipeline looping and compression stations
Length: 140 miles
Diameter: 36 inches
Location: Whatcom County, WA - Woodland, WA
Capacity: 750 MMcf/d
Docket: CP13-507
Completion: 4Q 2018

Operator: Williams Northwest Pipeline LLC
Project: Washington Expansion Project
Type: Project includes construction of pipeline looping and compression stations
Length: 140 miles
Diameter: 36 inches
Location: Whatcom County, WA - Woodland, WA
Capacity: 750 MMcf/d
Docket: CP13-507
Completion: 4Q 2018

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
**PLANNED Projects in development**

### FORTISBC – (REV 9/17)
- **Operator:** Woodfibre Natural Gas Ltd.
- **Project:** Eagle Mountain – Woodfibre Gas Pipeline
- **Type:** Project includes pipeline construction and compressor station upgrades
- **Location:** Coquitlam to Squamish, B.C.
- **Capacity:** 23 Bcf/d
- **Cost:** $350 million
- **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
- **Location:** Cypress, B.C. - Prince Rupert, B.C.
- **Capacity:** 4.2 Bcf/d
- **Cost:** $7.5 billion
- **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
- **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 11/17)
- **Operator:** NOVA Gas Transmission Ltd.
- **Project:** Sundre Crossover Project
- **Type:** Project includes pipeline construction
- **Location:** Sundre, AB
- **Cost:** $1 billion
- **Filing:** A31037
- **Status:** Project is conducting pre-construction activities
- **Comments:** Project is associated with the proposed Kitimat LNG Facility

- **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

- **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:** 2018 NGTL Expansion
  - **Type:** Project includes construction of a 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:** 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:** 190 miles
  - **Diameter:** 42 inches
  - **Location:** Sun,River, AB
  - **Capacity:** 2.4 Bcf/d
  - **Cost:** $1.7 billion
  - **Filing:** A69520
  - **Status:** NEB is holding public hearings for the project
  - **Completion:** 2Q 2019
  - **Comments:** Project will meet the transportation requirements associated with rapidly increasing development of natural gas resources in the Montney supply basin in northeastern B.C.

- **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
  - **Cost:** $5 billion
  - **Status:** Project has received regulatory approval and is currently awaiting a final investment decision

- **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
  - **Cost:** $4.8 billion
  - **Status:** Project has received regulatory approval and is currently considering an alternate route

### 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

**PLANNED** Projects in development
<table>
<thead>
<tr>
<th><strong>Company</strong></th>
<th><strong>Project</strong></th>
<th><strong>Type</strong></th>
<th><strong>Details</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGIE – (8/17)</td>
<td>Energia Mayakan Pipeline Extension</td>
<td>Project includes construction of pipeline</td>
<td>Mexico</td>
</tr>
<tr>
<td>ENERGIA – (12/17)</td>
<td>Transportadora de Gas del Sur</td>
<td>Project includes construction of pipeline</td>
<td>Caribbean/South &amp; Central America</td>
</tr>
<tr>
<td>ANDEAVOR LOGISTICS LP – (4/18)</td>
<td>North Dakota Logistics Hub</td>
<td>Project includes construction of 44 miles of pipeline and conversion of 42 miles of pipeline from oil to NGL</td>
<td>U.S.</td>
</tr>
<tr>
<td>ENTERPRISE PRODUCTS PARTNERS LP — (6/17)</td>
<td>Lou-Tex NGL Pipeline Conversion</td>
<td>Pipeline conversion</td>
<td>Mexico</td>
</tr>
<tr>
<td>PAMPA ENERGÍA – (12/17)</td>
<td>Vaca Muerta Pipeline</td>
<td>Project includes construction of a pipeline and gas treatment plant</td>
<td>Caribbean/South &amp; Central America</td>
</tr>
<tr>
<td>ROYAL DUTCH SHELL – (5/17)</td>
<td>Dragon – Hibiscus Pipeline</td>
<td>Project includes construction of pipeline</td>
<td>Caribbean/South &amp; Central America</td>
</tr>
<tr>
<td>ENERGY transfer PARTNERS LP – (4/17)</td>
<td>Fractionator V</td>
<td>Project includes construction of a fifth natural gas liquids fractionation facility and associated product infrastructure</td>
<td>U.S.</td>
</tr>
<tr>
<td>ONEOK INC. – (4/18)</td>
<td>Arbuckle II NGL Pipeline</td>
<td>Project includes pipeline construction</td>
<td>U.S.</td>
</tr>
</tbody>
</table>

**Cost:**
- $170 million
- $300 million
- $800 million
- $100 million
- $140 million
- $1.3 billion

**Location:**
- Valladolid, Yucatan - Quintana Roo
- Anelo - Tratayen
- McKenzie, Billings and Stark counties, ND
- Venezuela (Dragon – Hibiscus)
- Sorrento, LA - Mont Belvieu, TX
- Venezuela (Venezuela – Dragon)
- Oklahoma - Mont Belvieu, TX
- Oklahoma - Mont Belvieu, TX
- Oklahoma - Mont Belvieu, TX

**Capacity:**
- 60 Mcm/d
- 15 Mbdp (initial), 34 Mbdp (maximum)
- 400 Mbdp (initial), 1 MMbpd (maximum)
- 120 Mbdp
- 15 Mbpd (initial), 34 Mbpd (maximum)

**Status:**
- Project is awaiting regulatory approval
- Project is in the planning stage
- Project is in the development stage
- Project has applied to the North Dakota Public Service Commission
- Project is awaiting NEB approval

**Comments:**
- Project would transport gas produced by companies including state-run YPF, Tepetrol, Dow Argentina and Exxon Mobil Corp.
- 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.
PLANNED Projects in development

**NEW ENGLAND**

**New England Power Project**
- Operator: Eversource Energy
- Project: New England Power Project
- Length: 125 miles
- Capacity: 2,400 MW
- Status: Construction began in 2018
- Cost: $3.7 billion

**OIL - The Americas**

**U.S.**

**BLUEKNIGHT ENERGY PARTNERS LP – (REV 11/16)**
- Operator: Knight Warrior LLC
- Project: Knight Warrior Pipeline
- Length: 160 miles
- Diameter: 16 inches
- Location: Madison, Walker, Grimes, Montgomery and Harris counties, TX
- Capacity: 100 Mbdp
- Cost: $300 million
- Status: Project is delayed

**CRESTWOOD EQUITY PARTNERS LP – (REV 3/18)**
- Owner: Crestwood Equity
- Project: DELTA Pipeline
- Length: 200 miles
- Diameter: 20 inches
- Location: Reeves County, TX - Orla, TX
- Capacity: 200 Mbdp
- Contact: Russ Kovic
- Senior Vice President, Commercial Operations, Central US
- russ.kovic@crestwoodlp.com
- (832) 519-2260
- Status: Project is seeking shipper commitments
- Start: 3Q 2018
- Comments: Project will have potential connections to multiple downstream pipelines that provide shippers access to attractive demand markets, including Midland, Cushing, Houston and Corpus Christi

ENBRIDGE INC. – (3/18)
- 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
- Contractor: Michigan Tech’s Great Lakes Research Center
- Type: Project includes leading a risk analysis of twin pipelines carrying crude oil beneath the Straits of Mackinac

ELK PETROLEUM INC. – (5/17)
- Operator: Grieve Pipeline LLC
- Project: Grieve Pipeline
- Type: Project includes construction of pipeline
- Length: 32 miles
- Diameter: 8 inches
- Location: Mountain View, WY
- Capacity: 12 Mbdp
- Contact: Scott Hornafius
- CEO, Elk Petroleum Inc.
- 720-744-4884
- scott.hornafius@elkpet.com
- Status: Project is undergoing an open season
- Completion: 1Q 2018

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 Mbdp
- Cost: $199.2 million
- Docket: PL-9/1-CN-12-590
- Status: Project has received a presidential permit for construction
- Comments: Project will add compression to a segment of the existing Alberta Clipper Pipeline

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  
**Cost:** $75 million  
**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

### Magellan Midstream Partners LP – (2/18)

**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)  
**Status:** Project is undergoing an open season  
**Comments:** Project will provide shippers the option to ultimately deliver crude oil and condensate from the Three Rivers area to the Houston area via a new 200-mile pipeline or to the Corpus Christi area via a new 70-mile pipeline

### 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:** Q2 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 Delaware Express LLC – (12/17)

**Owner:** Medallion Pipeline Co. LLC  
**Project:** Delaware Express Pipeline  
**Type:** Project includes pipeline construction  
**Length:** 95 miles  
**Diameter:** 4 to 16 inches  
**Location:** Ward County, TX – Crane, TX  
**Capacity:** 200 Mbpd  
**Status:** Project is undergoing an open season  
**Comments:** Project will provide Medallion’s Delaware Basin customers with access to the Permian Basin long-haul takeaway pipelines, local refineries and downstream markets provided by the Wolfcamp Connector’s intrabasin header design

### MPLX LP – (REV 4/18)

**Operator:** MPLX Ozark Pipe Line LLC  
**Project:** Cushing-to-Patoka Expansion Project (Ozark Pipeline Expansion)  
**Type:** 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:** Q2 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:** Q2 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

### NuStar Permian Transportation and Storage LLC – (3/18)

**Owner:** NuStar Energy LP  
**Project:** NuStar Permian Crude System Expansion II  

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## PLANNED Projects in development

Type: Project includes construction of multiple interconnects connecting to the existing system to be executed in three phases (Big Spring South Inlet, Colorado City - Mainline Expansion and County Line Loop)

Location: Colorado City, TX

Capacity: 70 Mbdp

Status: Project is undergoing an open season

Comments: Project will provide shippers with additional transportation capacity that is capable of reaching multiple downstream markets through interconnects at Colorado City, TX

### 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 Mbdp |
| Status: Project has been delayed |

### PHILLIPS 66 – (2/18)

| Owner 2: Enbridge Inc. |
| Project: Gray Oak Pipeline |
| Type: Project includes pipeline construction |
| Length: 240 miles |
| Diameter: 24 inches |
| Location: Kommokom, CA - Alexander City, OK |
| Capacity: 360 Mbdp (initial) |
| Status: Project is undergoing an open season |
| Completion: 2Q 2019 |

### PROJECTS

<table>
<thead>
<tr>
<th>Description to the NEB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project: Plains is also proposing to replace the connecting pipeline, Line 903, which spans from Sisquoc to Pentland Delivery Point in Kern County, CA</td>
</tr>
</tbody>
</table>

### PLAINS ALL AMERICAN PIPELINE LP – (2/18)

| 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 |
| Cost: $550 million |
| Status: Project is in the early stage |

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

| 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 |
| Capacity: 140 Mbdp |
| Status: Project is on hold |

### SOUTH TEXAS GATEWAY PIPELINE LLC – (2/18)

| Owner 2: Buckeye Partners LP |
| Project: South Texas Gateway Pipeline |
| Type: Project includes pipeline construction |
| Length: 513 miles |
| Diameter: 30 inches |
| Location: Wink, Midland and Crane, TX - Corpus Christi, TX |
| Capacity: 600 Mbdp |
| Status: Project is undergoing an open season |

### TALLGRASS ENERGY PARTNERS LP – (4/18)

| Owner 2: Silver Creek Midstream LLC, 25% |
| Project: Iron Horse Pipeline |
| Type: Project includes 40 miles of new build and 40 miles of gas-to-oil conversion pipeline |
| Length: 80 miles |

### TEXAS 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 |
| Cost: $14 billion |
| 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 |

### 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 |
| Filing: A8153 |
| Status: Project has received conditional NEB approval |

### TRANSCANADA CORP. – (REV 11/17)

| Project: Keystone XL Project |
| Type: Project includes construction of pipeline |
| Length: 1,179 miles |
| Diameter: 36 inches |
PRODUCTS - The 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 Mbpd (minimum)
30 Mbpd (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

CENEX PIPELINE LLC – (REV 3/18)
Owner: CHS Inc.
Project: Cenex Pipeline Replacement
Type: Project includes 8-inch pipeline replacement
Length: 182 miles
Diameter: 10 inches
Location: Sidney, MT – Minot, ND
Status: CHS recently finished contacting landowners and conducting environmental resource surveys. The next step is to work with tribal leadership, state and federal agencies to complete the approval and permitting process
Start: 2Q 2018
Completion: 2Q 2019
Comments: The pipeline will follow a new route for the majority of the 182 miles and will utilize existing easements for the rest of its length

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

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 Mbpd

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
Status: Project is undergoing an open season
**Planning Projects in development**

**Capacity:** 167 Mbdp  
**Cost:** $1.1 billion  
**Docket:** OR15-13  
**Status:** Project is delayed

**Magellan Midstream Partners LP – (REV 3/18)**  
**Owner 2:** TransMontaigne Partners LP, 50%  
**Type:** Project involves pipeline construction  
**Length:** 150 miles  
**Diameter:** 16 inches  
**Location:** Corpus Christi, TX - Brownsville, TX  
**Capacity:** 150 Mbdp  
**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 Mbdp  
**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. – (11/17)**  
**Project:** Tajín Pipeline Project  
**Type:** Project includes pipeline and storage terminal construction  
**Length:** 165 miles  
**Diameter:** 20 inches  
**Location:** Tuxpan, Veracruz - Mexico Valley  
**Capacity:** 167 Mbpd  
**Cost:** $1.1 billion  
**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

**Transcontinental Gas Pipe Line Co. LLC – (8/17)**

**Other - The Americas**

**Williams Companies Inc. – (8/17)**

**Denbury Resources – (REV 4/18)**

**Other - The Americas**

**United States**

**Williams Companies Inc. – (8/17)**

**Project:** Transcontinental Gas Pipe Line Co. LLC  
**Operator:** 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  
**Cost:** $2.9 million  
**Docket:** CPL7-450  
**Status:** Project filed an application with FERC

**Denbury Resources – (REV 4/18)**  
**Project:** Denbury Pipeline I  
**Type:** Project includes construction of pipeline  
**Length:** 250 miles  
**Diameter:** 20 inches  
**Location:** Glendive, MT  
**Cost:** $2.9 million  
**Status:** Project is out for bid  
**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

**Denbury Resources – (REV 4/18)**  
**Project:** Denbury Pipeline II  
**Type:** Project includes construction of pipeline  
**Length:** 250 miles  
**Diameter:** 20 inches  
**Location:** Glendive, MT  
**Cost:** $400 million  
**Status:** Project is in the development stage  
**Comments:** Project will link the Shute Creek site to an existing pipeline network that extends into Montana