Planning and Coordinating International Gas Pipelines and Infrastructure

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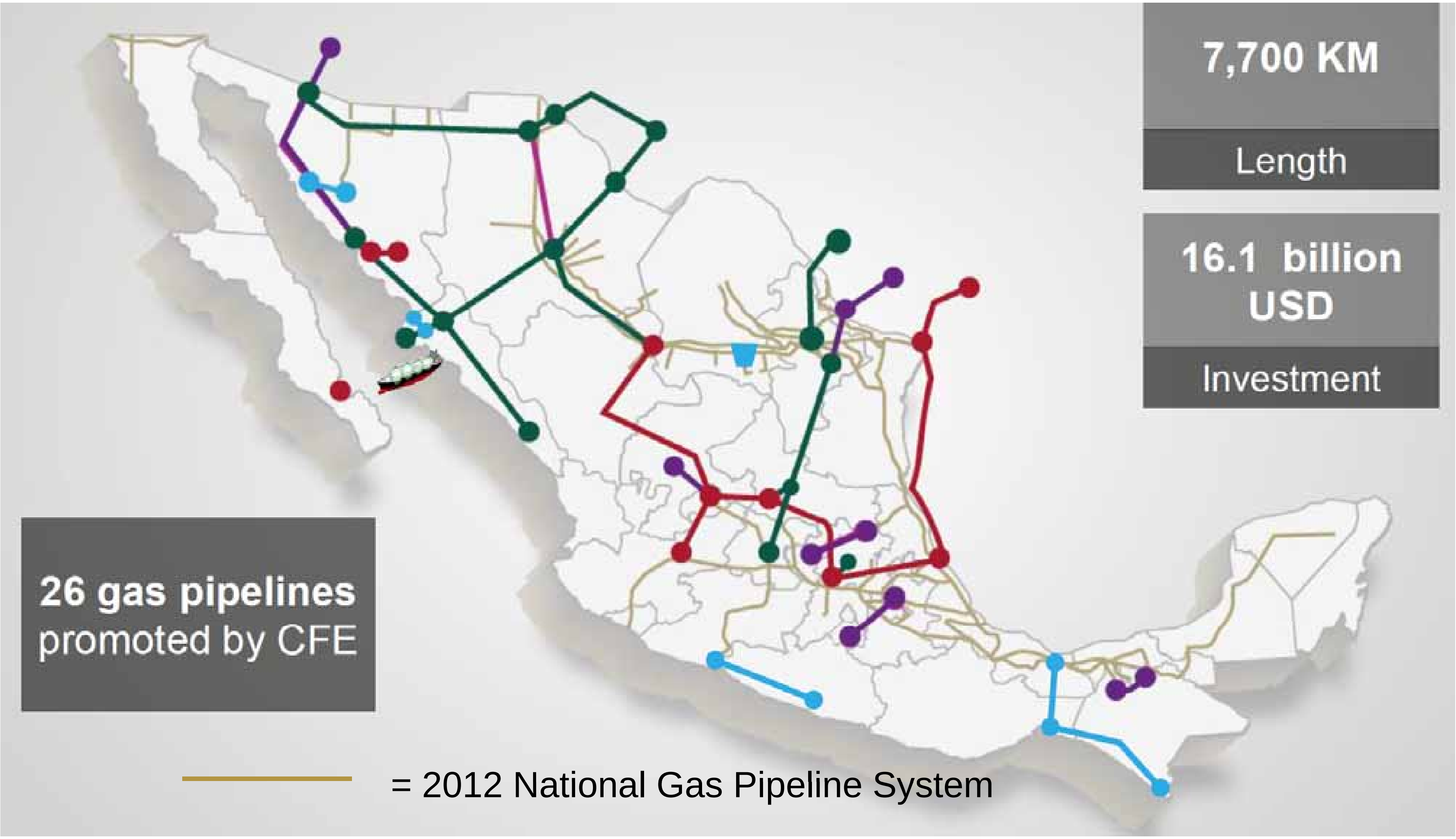

Mexico's National Gas Pipeline System will increase by more than 85% from 2012 levels by 2018.

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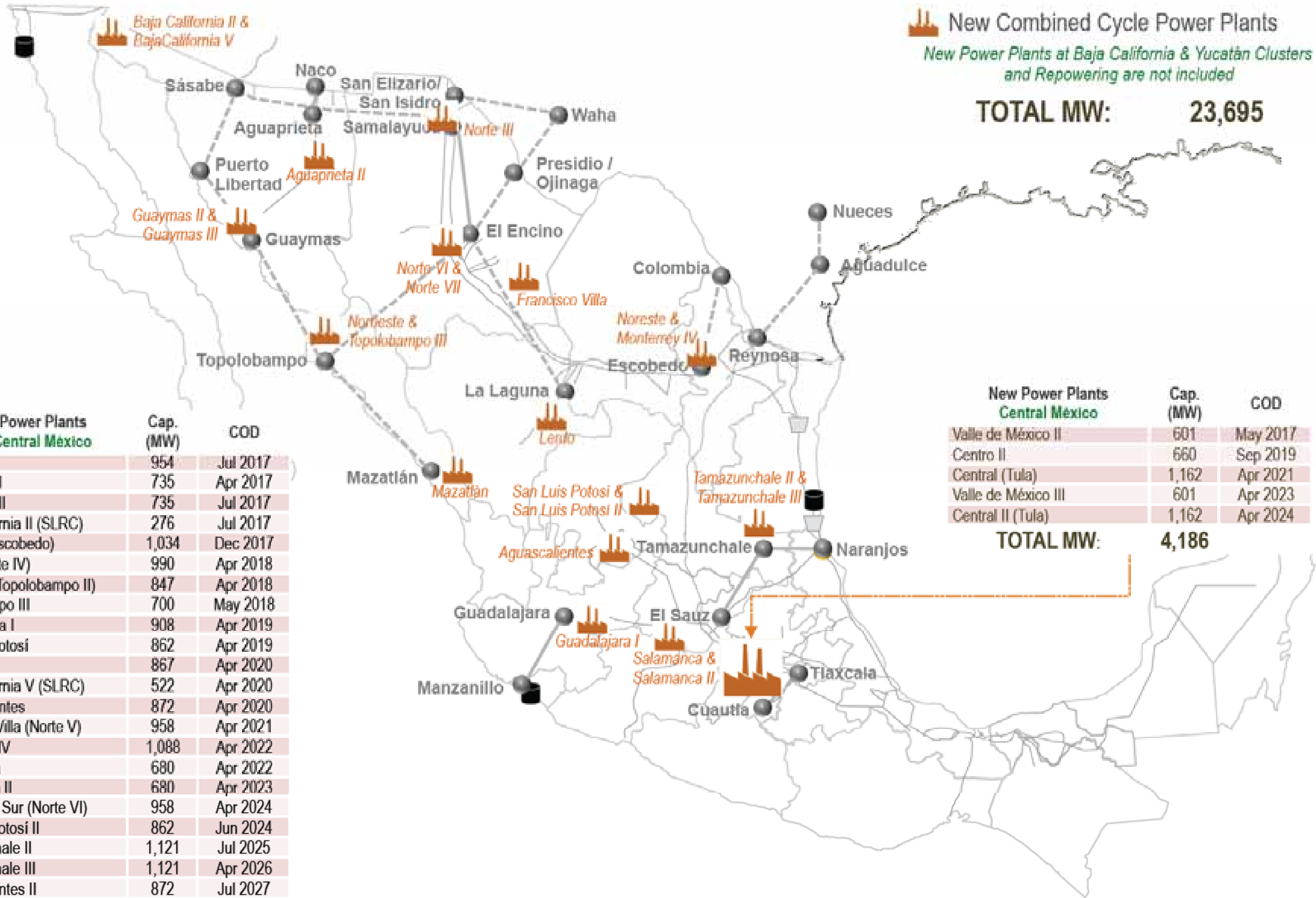
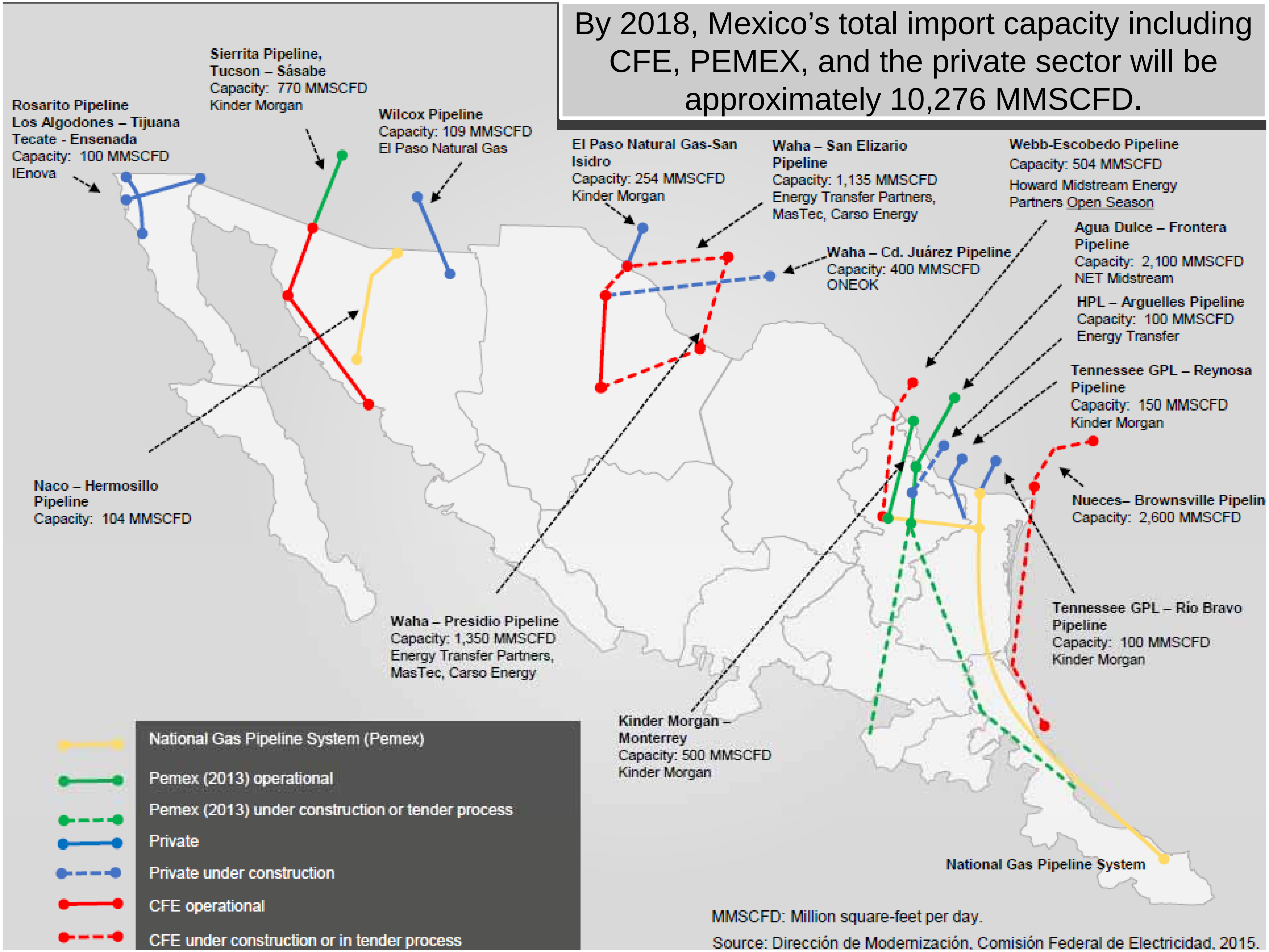
Pipeline Scenario with New Power Plants due 2028

CFE Natural gas transportation strategy



New Power Plants Non Central México	Cap. (MW)	COD
Norte III	954	Jul 2017
Guaymas II	735	Apr 2017
Guaymas III	735	Jul 2017
Baja California II (SLRC)	276	Jul 2017
Noreste (Escobedo)	1,034	Dec 2017
Lerdo (Norte IV)	990	Apr 2018
Noroeste (Topolobampo II)	847	Apr 2018
Topolobampo III	700	May 2018
Guadalajara I	908	Apr 2019
San Luis Potosí	862	Apr 2019
Mazatlán	867	Apr 2020
Baja California V (SLRC)	522	Apr 2020
Aguascalientes	872	Apr 2020
Francisco Villa (Norte V)	958	Apr 2021
Monterrey IV	1,088	Apr 2022
Salamanca	680	Apr 2022
Salamanca II	680	Apr 2023
Chihuahua Sur (Norte VI)	958	Apr 2024
San Luis Potosí II	862	Jun 2024
Tamazunchale II	1,121	Jul 2025
Tamazunchale III	1,121	Apr 2026
Aguascalientes II	872	Jul 2027
Norte VII	867	Jun 2028
TOTAL MW:	19,509	

New Power Plants Central México	Cap. (MW)	COD
Valle de México II	601	May 2017
Centro II	660	Sep 2019
Central (Tula)	1,162	Apr 2021
Valle de México III	601	Apr 2023
Central II (Tula)	1,162	Apr 2024
TOTAL MW:	4,186	


By 2018, Mexico's total import capacity including CFE, PEMEX, and the private sector will be approximately 10,276 MMSCFD.
Sierrita Pipeline, Tucson – Sásabe
Capacity: 770 MMSCFD
Kinder Morgan
Rosarito Pipeline
Los Algodones – Tijuana
Tecate - Ensenada
Capacity: 100 MMSCFD
IEnova
Wilcox Pipeline
Capacity: 109 MMSCFD
El Paso Natural Gas
El Paso Natural Gas-San Isidro
Capacity: 254 MMSCFD
Kinder Morgan
Waha – San Elizario Pipeline
Capacity: 1,135 MMSCFD
Energy Transfer Partners, MasTec, Carso Energy
Webb-Escobedo Pipeline
Capacity: 504 MMSCFD
Howard Midstream Energy Partners Open Season
Agua Dulce – Frontera Pipeline
Capacity: 2,100 MMSCFD
NET Midstream
Waha – Cd. Juárez Pipeline
Capacity: 400 MMSCFD
ONEOK
HPL – Arguelles Pipeline
Capacity: 100 MMSCFD
Energy Transfer
Tennessee GPL – Reynosa Pipeline
Capacity: 150 MMSCFD
Kinder Morgan
Naco – Hermosillo Pipeline
Capacity: 104 MMSCFD
Nueces– Brownsville Pipelin
Capacity: 2,600 MMSCFD
Tennessee GPL – Río Bravo Pipeline
Capacity: 100 MMSCFD
Kinder Morgan
Waha – Presidio Pipeline
Capacity: 1,350 MMSCFD
Energy Transfer Partners, MasTec, Carso Energy
Kinder Morgan – Monterrey
Capacity: 500 MMSCFD
Kinder Morgan
National Gas Pipeline System
National Gas Pipeline System (Pemex)
Pemex (2013) operational
Pemex (2013) under construction or tender process
Private
Private under construction
CFE operational
CFE under construction or in tender process
MMSCFD: Million square-feet per day.
Source: Dirección de Modernización, Comisión Federal de Electricidad, 2015.

Construction Trans-Pecos Pipeline

Construction Trans-Pecos Pipeline

U.S. PERMITTING & REGULATORY CONSIDERATIONS FOR TRANSPORTERS

Presidential Permits for Cross-Border Pipelines

DOE Natural Gas Export Authorization

Environmental Considerations

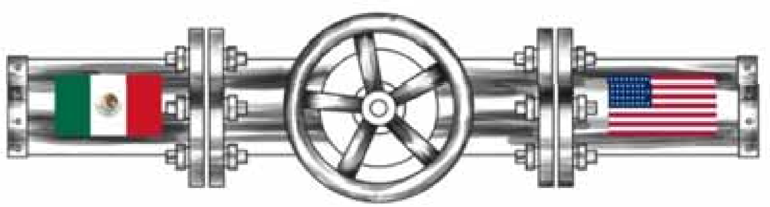
IBCWA & CILA

Common Points of Negotiation in Contracting

1. Force Majeure

2. Credit Support and Security Interests

3. Interconnections



QUESTIONS?

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