A Different Kind of ENERGY COMPANY



# **Northeast Energy Direct Project**

### **Townsend Board of Selectmen**

### Townsend, MA Wednesday, June 25, 2014



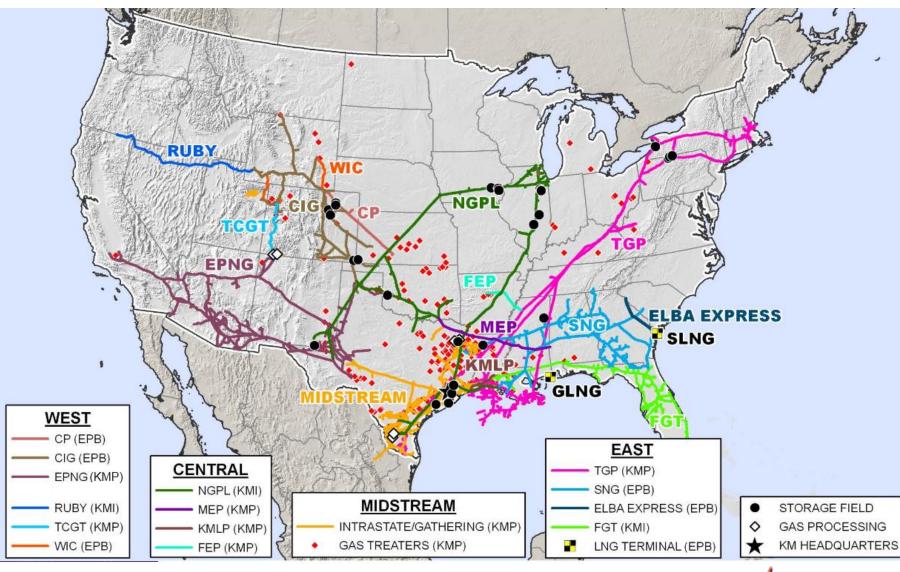
# About Kinder Morgan



- Kinder Morgan is one of the largest, most experienced energy companies in North America. We own an interest in or operate approximately 80,000 miles of pipelines and 180 terminals.
- Kinder Morgan employs approximately 11,500 people throughout the United States and Canada.
- We are committed to operating our assets in a safe, ethical and transparent manner.
- We ensure public safety and safe pipeline operations through employee training, regular testing, right-of-way aerial and foot patrols and adherence to our comprehensive Integrity Management plan and procedures.
- Kinder Morgan does not have a Political Action Committee (PAC), or make any political contributions.



# Kinder Morgan Natural Gas Pipelines





# U.S. Shale Plays



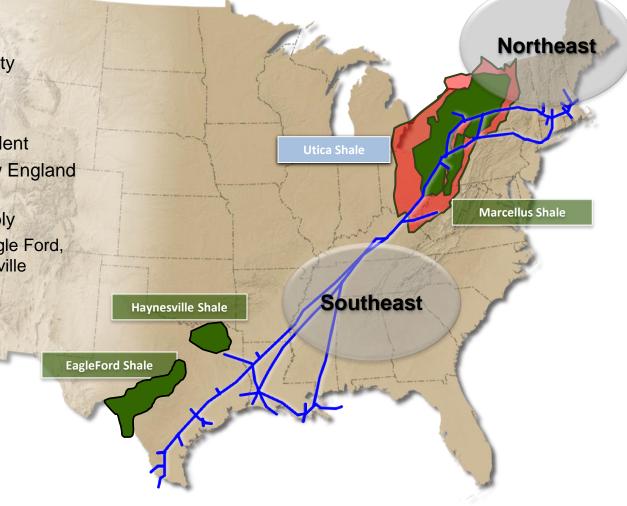
# **Tennessee Gas Pipeline**

### System Overview

- 13,900 miles of pipeline
- 79 Bcf of storage capacity
- ~8.0 Bcf/d design capacity
- 1.4 million horsepower
- >500 FT customers

**KINDER**<sup>2</sup>MORGAN

- 35 MM households equivalent
- Delivered ~390 Bcf to New England customers in 2012
- Abundant & Growing Supply
  - Marcellus, Utica, Eagle Ford, Haynesville, Fayetteville



# **Customers in New England**

### New England LDC Customers

- EnergyNorth Natural Gas (NH)
- Northern Utilities (ME)
- Fitchburg Gas & Electric Light Co. (MA)
- Colonial Gas Co. (MA)
- Essex County Gas Co. (MA)
- Boston Gas Co. (MA)
- NSTAR Gas Co. (MA)
- Bay State Gas Co. aka Columbia Gas of MA (MA)
- Blackstone Gas Co. (MA, Municipal)
- Narragansett Electric Co. d/b/a National Grid (RI)
- Holyoke Gas & Electric (MA, Municipal)
- Westfield Gas & Electric Dept. (MA, Municipal)
- Berkshire Gas Co. (MA)
- Connecticut Natural Gas Co. (CT)
- Southern Connecticut Gas Co. (CT)
- Yankee Gas Services Co. (CT)

### New England Power Generators

- Granite Ridge LLC
- Entergy RISE
- Blackstone GDFSUEZ



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# MASSACHUSETTS

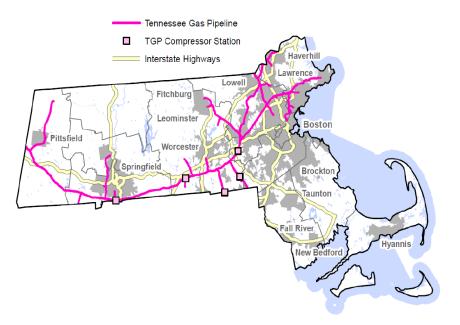




# KINDER MORGAN MASSACHUSETTS ASSETS

### In Massachusetts,

- Kinder Morgan employed 46 people in 2013
- Kinder Morgan's total 2013 payroll was \$3.6 million
- In 2013, Kinder Morgan paid approximately \$5.85 million to state and local taxing bodies.
  - In 2013, Kinder Morgan paid approx.
    \$1.4 million in taxes to Middlesex County.
- Kinder Morgan operates approximately 600 miles of pipeline
  - Kinder Morgan operates approximately half of Massachusetts 1,125 miles of natural gas transmission pipelines.



Kinder Morgan operates assets in eight counties throughout Massachusetts: Berkshire, Essex, Hampden, Hampshire, Middlesex, Norfolk, Suffolk and Worcester A Different Kind of ENERGY COMPANY

# The Need for the Northeast Energy Direct Project KINDER MORGAN



# Northeast Energy Crisis

**Unprecedented** gas capacity constraints on existing pipelines (Source: ISO-NE, EIA.gov)

**Highest** and most volatile gas commodity costs in the nation (Source: ISO-NE, EIA.gov)





# Northeast Energy Crisis

#### Hnited States Senate

December 20, 2013

The Honorable Ernest Moniz Secretary U.S. Department of Energy 1000 Independence Ave SW Washington, DC 20585

Dear Secretary Moniz:

We write to express out concern about the natural gas and energy market challenges finging the New England region and the effort that high energy prices are having on commance and basinesses in our states. We were very encouraged to learn that the first interagency Quadreminia Energy Review will flock on energy infrastructure. Given that New England faces the some of the highest natural gas prices in the nation, we urge you to consider the unique regional challenges fincing New England as the Department of Energy undertales this review.

Now England datase controlly ray barvily on natural gas for destricity production and residential backgas, with natural-gas of help datas products of  $g_{10}$  32 process of five power agenomate in the New Baglage, with natural-gas of help datase products of  $g_{10}$  and  $g_{20}$  for two power area from has resulted in our creation 4 scheriot supply being one of the classes in the analos. In the Wer England material control of the scheriot supply interdependent. According to the Product New England Product is the scheriot supply interdependent. According to the Product Barryge Regularized Commission (FERC), the New England match is particularly at risk for service dirugtion data to limited pipeline capacity in the region. This so or dry threaters related Barryge Regularized Tommission similarly recognizing these challenges – recently announced a commitment to advancing a region energy inflattracture initiative that would support cooperative investments in energy efficiency, new and existing reservise gas controls and the reservise dimension.

While New England continues to make artifies in increasing the use of reasewable sources of energy, our region's success in increasing the use of reasers while sources a clean energy economy relies on the availability and reliability of affordable natural gas prices resources. Depide the shandnase of chemistin natural gas resources and pow natural gas prices elsewhere in the United Statuse, the high demand for natural gas to meet heating and electricity needs, coupled with significantly contarined pipeline conjectivity into the region. Sus driven up natural gas and wholesale electricity prices and threatened reliability in New England. According to the U.S. Energy, information Administration (EIA), New England offsen essentianing as project prices higher than the national average. This part winter, the average price at the Algonequin Citypate trading point (a widely used index for New England and mark gas your ess 53/MMEMs. In contrast, the natural gas typrice at Henry Flub (the price, point for natural gas futures traded on the NYMES) was 33.43/MMEMs.

LETTER FROM THE NEW ENGLAND U.S. SENATE DELEGATION TO DEPARTMENT OF ENERGY SECRETARY MONIZ – December 13, 2013

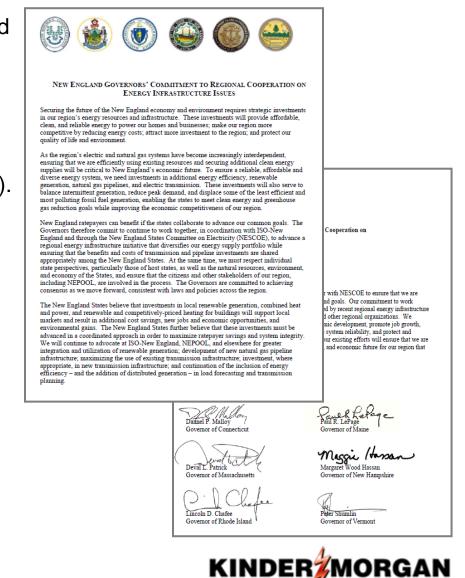
According to the Federal Energy Regulatory Commission (FERC), <u>the New</u> <u>England market is particularly at risk for</u> <u>service disruption due to limited pipeline</u> <u>capacity into the region</u>. This not only threatens reliability but also results in more volatile natural gas and power prices during periods of high demand."

Energy infrastructure in the region is simply inadequate to meet demand and has been a key factor in the energy price volatility."



### Governors' Statement on Northeast Energy Infrastructure

- In Dec. 2013, New England Governors called attention to the shortage of energy infrastructure.
- An open letter was signed by Governors Malloy (CT), LePage (ME), Patrick (MA), Hassan (NH), Chafee (RI), and Shumlin (VT).
- "To ensure a reliable, affordable and diverse energy system, we need investments in additional energy efficiency, renewable generation, natural gas pipelines, and electric transmission."
- "These investments will provide affordable, clean, and reliable energy to power our homes and businesses; make our region more competitive by reducing energy costs; attract more investment to the region; and protect our quality of life and environment."

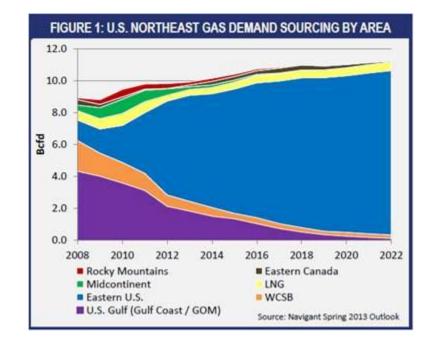


### **Current Sources of New England Natural Gas**

### New England's Gas Needs:

- In 2013, New England relied on natural gas for 52% of its <u>electricity</u> produced, more than any other source. (Source: ISO-NE)
- Tennessee Gas Pipeline and Algonquin Gas Pipeline are the two major pipelines transporting natural gas to New England. (Source: U.S. Energy Information Administration)

### Sources of New England's Gas Supply:



- In 2012, the Northeast region received **60%** of its gas supply from Eastern US sources, mainly shale formations. (Source: Navigant North American Natural Gas Market Outlook, Spring 2013)
- In 2008, the Northeast received only **14%** of its natural gas from Appalachia/Eastern U.S. sources such as the Marcellus shale. (Source: Navigant, Spring 2013)
- It is estimated that by 2022, based on current trends and source supply that the Northeast will receive **92%** of ifs gas supply from Eastern US sources. (Source: Navigant North American Natural Gas Market Outlook, Spring 2013)

# Northeast Energy Crisis

# The energy situation is likely to worsen if no new capacity is constructed;

- Currently, **four** large New England coal, oil and nuclear power plants are planning to retire in the next few years due to increasing operating costs and new emissions standards. This includes the Brayton Point and Salem Harbor Plants in MA, the Norwalk Harbor Plant in CT, and the Vermont Yankee plant in VT. (Source: ISO-NE, 2013)
- Unless new capacity is provided, New England's power system will be increasingly vulnerable to electric service disruptions and consumer prices will increase greatly. The region will be at a large economic and competitive disadvantage to neighboring states and regions due to high energy costs. (Source: New England States Committee on Electricity, 2014)

### **Solution:**

 NESCOE, ISO-NE, and New England's Governors have all publically identified natural gas pipelines as a solution to the Northeast Energy crisis. A Different Kind of ENERGY COMPANY

# Northeast Energy Direct Project Introduction



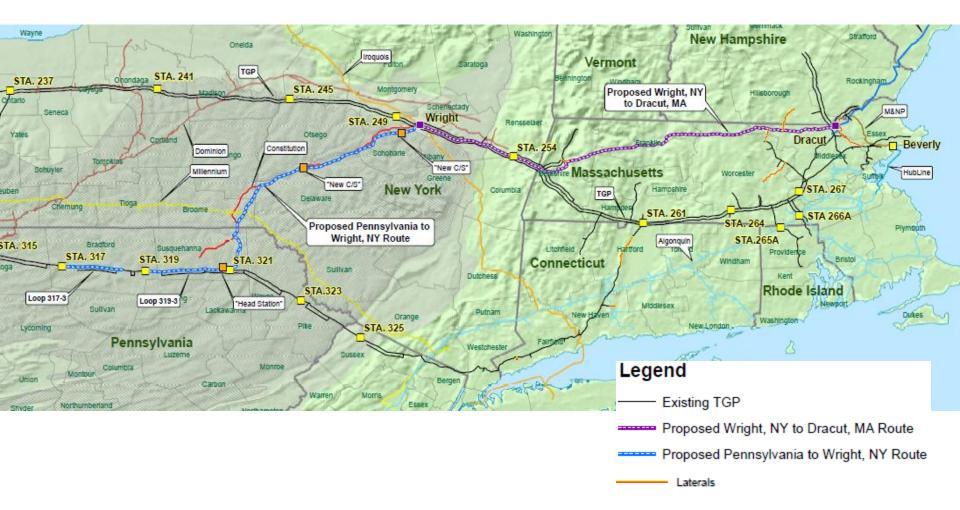
# Northeast Energy Direct Project Overview

- The Northeast Energy Direct Project will expand the existing Tennessee Gas Pipeline system within Pennsylvania, New York, Massachusetts, New Hampshire and Connecticut.
- The project, as currently configured, would result in the construction of approx. 418 miles of new pipeline, additional meter stations, compressor stations and modifications to existing facilities.
- The expansion will help meet increased demand in the U.S. Northeast for transportation capacity for natural gas.
- Following completion, the proposed project could bring an estimated increased capacity of up to 2.2 Bcf/d to the Northeast, which is equivalent to an additional 1.5MM households.
- Pending receipt of necessary regulatory approvals, the proposed project is estimated to be placed inservice by November 2018.
- The project is estimated to generate an additional \$25M to local taxing bodies in MA.

#### **Estimated Project Schedule**

Action	Timing
Outreach Meetings	Ongoing
Route Selection and Permit Preparation	Ongoing
Agency Consultations	Ongoing
File for FERC pre-filing	October 2014
KM Open Houses	November – December 2014
FERC Scoping Meetings	January – February 2015
FERC filing	Sept. 2015
Anticipated FERC approval	November 2016
Proposed Start of Construction Activity	January 2017
Proposed In-Service	November 2018

# **Proposed Northeast Energy Direct Route**



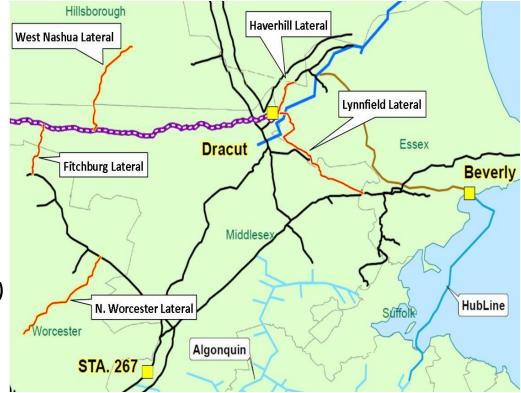
\*Any final route determination is subject to surveying, land acquisition and easements, environmental impact assessments, permitting and stakeholder input.



# Northeast Energy Direct Components

### **Proposed project components:**

- Pennsylvania to Wright, NY
- Wright, NY to Dracut, MA
- West Nashua Lateral (MA/NH)
- N. Worcester Lateral (MA)
- Pittsfield Lateral (MA)
- Stamford Delivery Loop (CT)
- Wallingford Delivery Loop (CT)
- Fitchburg Lateral Extension (MA)
- Haverhill Lateral (MA)
- Lynnfield Lateral (MA)
- 300 Line CT Lateral (CT)





# **Regulatory Oversight**

Federal, state and local agencies will have extensive regulatory authority over the proposed project. Some of these include:

### **Federal**

- Federal Energy Regulatory Commission
- U.S. Army Corps of Engineers
- U.S. Environmental Protection Agency
- U.S. Fish and Wildlife Service
- U.S. Department of Agriculture
- U.S. Department of the Interior

### <u>State</u>

- Massachusetts State Legislature
- Massachusetts Executive Office of Energy and Environmental Affair s(EOEEA)
  - Dept. of Public Utilities
  - Dept. of Fish and Game
  - Dept. of Environmental Protection
  - Dept. of Agricultural Resources
  - Office of Coastal Zone Management
- MA Energy Facilities Siting and Licensing Board

• MA Historical Commission

### **Local**

• MA Town Conservation Commissions



### Preliminary Northeast Energy Direct Town List (MA)

### **Berkshire County**

- Dalton, MA
- Hinsdale, MA
- Lenox, MA
- Peru, MA
- Pittsfield, MA
- Richmond, MA
- Washington, MA
- Windsor, MA

### **Essex County**

- Andover, MA
- Lynnfield, MA
- Methuen, MA

### **Franklin County**

- Ashfield, MA
- Conway, MA
- Deerfield, MA
- Erving, MA

- Montague, MA
- Northfield, MA
- Orange, MA
- Shelburne, MA
- Warwick, MA

### Hampshire County

- Plainfield, MA

### Middlesex County

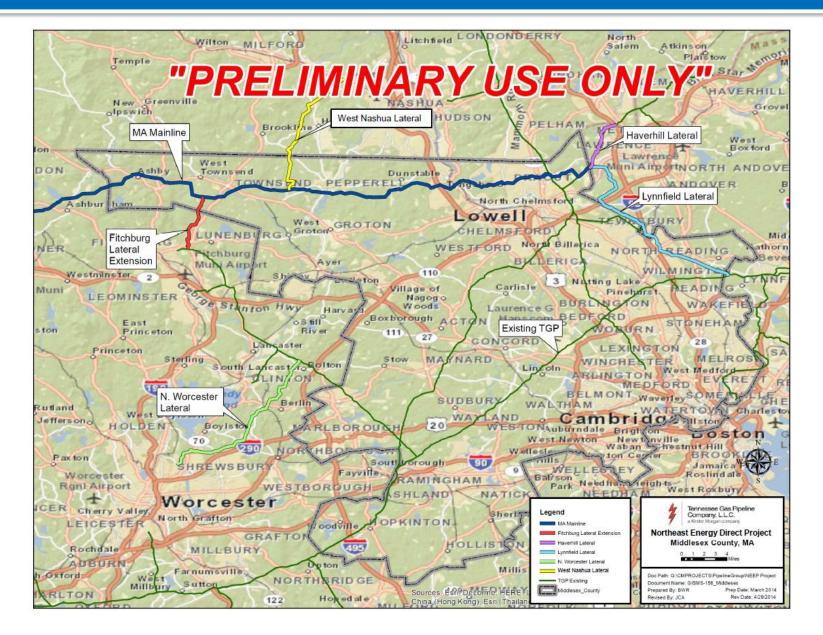
- Ashby, MA
- Dracut, MA
- Dunstable, MA
- Groton, MA
- North Reading, MA
- Pepperell, MA
- Reading, MA
- Tewksbury, MA
- Townsend, MA
- Tyngsborough, MA

- Wilmington, MA

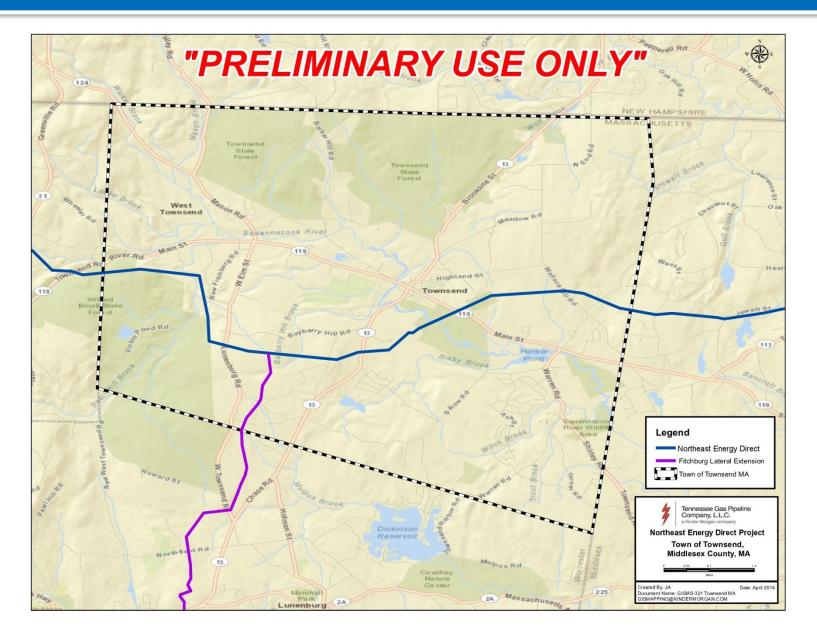
### **Worcester County**

- Ashburnham, MA
- Athol, MA
- Berlin, MA
- Bolton, MA
- Boylston, MA
- Gardner, MA
- Lunenburg, MA
- Northborough, MA
- Royalston, MA
- Shrewsbury, MA
- West Boylston, MA
- Winchendon, MA

# **Middlesex County Map**



# **Townsend Town Map**



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# Northeast Energy Direct Project Benefits KINDER MORGAN



# **Project Benefits**

- An estimated additional \$25M to local taxing bodies in MA
- Estimated creation of 3,000 construction-related jobs
- Economic stimulus to surrounding areas during construction (retail, hospitality, etc.)
- Providing long-term energy reliability to the region
- Creates potential new source of energy for communities
- Platform for growth; expandable to meet future needs













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# Next Steps Our Commitment to Local Communities



# Massachusetts Outreach

#### **Project Briefings:**

- Governor Deval Patrick
- Office of U.S. Senator ٠ Elizabeth Warren
- Office of U.S. Senator Ed Markey
- Office of Congressman Jim McGovern
- Office of Congressman ٠ John Tierney
- Office of Congresswoman ٠ Niki Tsongas
- Office of Congressman **Richard Neal**
- Office of Congressman Joe ٠ Kennedy
- Office of Congresswoman Katherine Clark
- Senator Benjamin Downing
- State Senate Majority Leader Stan Rosenberg
- Senator Stephen Brewer
- Senator Barry Finegold
- Senator Eileen Donoghue
- Senator Hariette Chandler
- Senator Jennifer Flanagan
- State House Speaker Robert DeLeo
- State Representative Stephen Kulik
- State Representative

William Pignatelli

- State Representative Tricia ٠ Farley-Bouvier
- State House Minority
  - Leader Bradley Jones
- State Representative • Stephen DiNatale
- State Representative • Colleen Garry
- State Representative Anne ٠ Gobi
- Office of Senator Bruce ٠ Tarr
- Office of Senator Michael ٠ Moore
- **Department of Public** ٠ Utilities
- Office of Energy and ٠ **Environmental Affairs**
- Department of Fish and • Game

•

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- **Coastal Zone Management** Department of Agricultural ٠ Resources
- Department of Energy ٠ Resources
  - Department of **Environmental Protection**

#### **Town Contacts:**

- Dalton ٠
- Hinsdale
- Lenox ٠
- Peru •
- Pittsfield
- Richmond ٠
- Washington ٠
- Windsor
- Andover ٠
- Lynnfield ٠
- Methuen ٠
- Ashfield ٠
- Conway ٠
- Deerfield
- Erving ٠
- Greenfield ٠
- Montague ٠
- Northfield ٠
- Orange ٠
- Shelburne ٠
- Warwick ٠
- Plainfield ٠
- Ashby ٠
- Dracut ٠
- Dunstable
- Groton
- North Reading •
- Pepperell ٠

- Tewksbury ٠
- Townsend
- Tyngsborough
- Wilmington •
- Ashburnham •
- Athol ٠
- Berlin .
- Bolton ٠
- **Boylston** •
- Gardner ٠
- Lunenburg •
- Northborough •
- Royalston ٠
- Shrewsbury ٠
- Winchendon
- Worcester



**KINDER**<sup>\*</sup>MORGAN

# **Project Presentations to Date**

- April 7, 2014 : Montague (MA) Board of Selectmen
- April 8, 2014: Dracut (MA) Board of Selectmen
- April 9, 2014: Ashburnham (MA) Board of Selectmen
- April 21, 2014: Hollis (NH) Public Meeting
- April 22, 2014: Plainfield (MA) Board of Selectmen
- April 23, 2014: Ashby (MA) Board of Selectmen
- May 12, 2014: Pepperell (MA) Board of Selectmen
- May 13, 2014: Warwick (MA) Public Meeting
- May 14, 2014: Tyngsborough (MA) Board of Selectmen
- June 4, 2014: Richmond (MA) Board of Selectmen
- June 5, 2014: North Reading (MA) Board of Selectmen
- June 23, 2014: Groton (MA) Board of Selectmen
- June 24, 2014: Tewksbury (MA) Board of Selectmen











# Kinder Morgan in the Community

2014 Donation to Eastern Pike Regional Police Department to support national gas conversion of squad cars.





In 2013, Parkway Pipeline supported the Collins, MS Fire Department.

In 2013, Kinder Morgan donated 3,000 tree saplings to elementary schools in seven counties across NJ and PA to celebrate Arbor Day.





In 2013, Tennessee Gas Pipeline donated to the Milford Beach in the Delaware Gap National Recreation Area to keep it open for the summer.



In 2012, Parkway Pipeline (a KM subsidiary) provided the funding for the construction of a new playground in Pelican Park in Mandeville, LA



# **Kinder Morgan Foundation**

• The Kinder Morgan Foundation funds programs that promote the academic and artistic interests of young people in the many cities and towns across North America where Kinder Morgan operates.



Science from Scientists, Inc., Boston, MA



Berkshire Museum, Pittsfield, MA www.kindermorgan.com/community



Please Touch Museum, Philadelphia, PA



# **Kinder Morgan Contact Information**

**Project Website:** 

www.kindermorgan.com/business/gas\_pipelines/east/neenergydirect/

### **Public Affairs/Project Outreach**

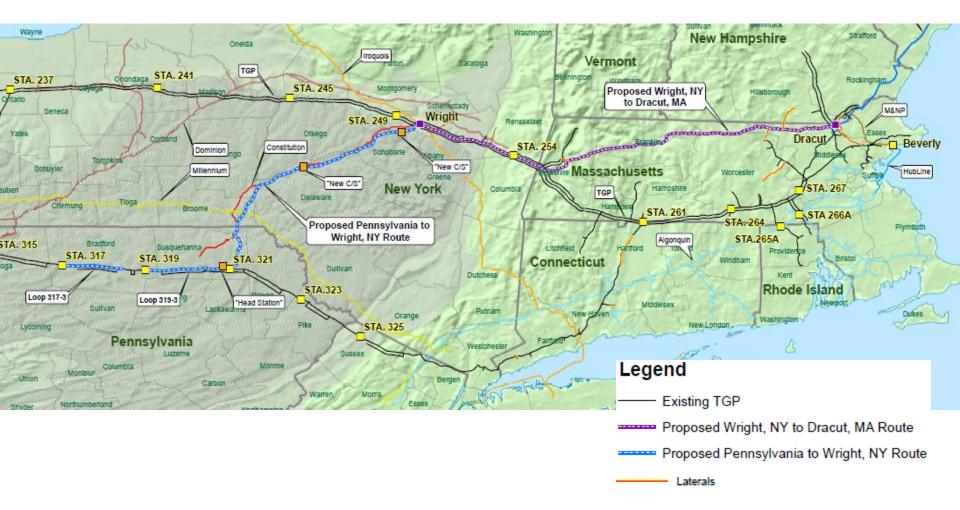
Allen Fore
 630-725-3044
 <u>allen fore@kindermorgan.com</u>

### **Media Relations**

 Richard Wheatley 713-420-6828 <u>richard wheatley@kindermorgan.com</u>



# Northeast Energy Direct Project



\*Any final route determination is subject to surveying, land acquisition and easements, environmental impact assessments, permitting and stakeholder input.



# Kinder Morgan Asset Map

