INTERSTATE PIPELINES | EXPLORATION & PRODUCTION

Building an excellent EH&S culture.



Ruby: the First Carbon Neutral Pipeline

Naomi Cortez El Paso Western Pipelines



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Introduction

- Ruby Overview & Milestones
- Roadmap to "Compliance"





Cautionary Language Regarding Forward-Looking Statements

This presentation includes certain forward-looking statements and projections. The company has made every reasonable effort to ensure that the information and assumptions on which these statements and projections are based are current, reasonable, and complete. However, a variety of factors could cause actual results to differ materially from the projections, anticipated results or other expectations expressed in this presentation, including, without limitation, our ability to implement and achieve objectives in our 2010 plan and updated guidance, including achieving our earnings and cash flow targets, as well as targets for future years; the effects of any changes in accounting rules and guidance; our ability to meet production volume targets in our Exploration and Production (E&P) segment; our ability to comply with the covenants in our various financing documents; our ability to obtain necessary governmental approvals for proposed pipeline and E&P projects and our ability to successfully construct and operate such projects on time and within budget; the risks associated with recontracting of transportation commitments by our pipelines; regulatory uncertainties associated with pipeline rate cases; actions by the credit rating agencies; the successful close of our financing transactions; credit and performance risk of our lenders, trading counterparties, customers, vendors and suppliers; changes in commodity prices and basis differentials for oil, natural gas, and power; general economic and weather conditions in geographic regions or markets served by the company and its affiliates, or where operations of the company and its affiliates are located, including the risk of a global recession and negative impact on natural gas demand; the uncertainties associated with governmental regulation, including future regulation resulting from the oil spill in the Gulf of Mexico or financial reform legislation; political and currency risks associated with international operations of the company and its affiliates; competition; and other factors described in the company's (and its affiliates') Securities and Exchange Commission (SEC) filings. While the company makes these statements and projections in good faith, neither the company nor its management can guarantee that anticipated future results will be achieved. Reference must be made to those filings for additional important factors that may affect actual results. The company assumes no obligation to publicly update or revise any forward-looking statements made herein or any other forward-looking statements made by the company, whether as a result of new information, future events, or otherwise.

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Defining Our Purpose

El Paso Corporation provides natural gas and related energy products in a safe, efficient, and dependable manner





El Paso Exploration & Production Asset Overview & Core Programs



Vision and Values

the **place** to work the **neighbor** to have the **company** to own





El Paso's GHG Leadership Credentials

GHG Team Established with Oversight by Board and Executive Committee (2005) EPA Natural Gas Star Award recipient (2005-fourth consecutive year) Corporate GHG Inventory Goals (2006) "Pre-certified" 2005 GHG Inventory—1605(b) Standards (2006) "Assess, engage and act" commitment statement: http://elpaso.com/profile/mainneighbor.shtm (2007, rev 2009) "Verified" 2006 GHG Inventory—CCAR Standards (2007) Climate Action Leader[™] (2007 - 2009) Carbon Disclosure Project (CDP): http://www.elpaso.com/profile/ehs.shtm (2008) Southern Gas Association (SGA) Environmental Excellence Award for GHG Leadership (2008) Committed to developing the \$3 billion proposed Ruby Pipeline as a carbon-neutral project (2008) Corporate Sustainability Report (CSR): http://www.elpaso.com/CSR/index.html (2010)





Ruby Pipeline Project http://www.rubypipeline.com/



Overview of Ruby Pipeline Project





Ruby Project Milestones



FERC Filing Jan 27, 2009 FERC Certificated April 5, 2010 Construction Start Approved July 31, 2010 Estimated In-Service Date Spring 2011



Ruby's Carbon Strategy

ep 12

Carbon Impact Assessment	 Assess HP requirements based on pipe without internal coating Evaluate gas vs. electric compression Reliability = key issue Estimate Scope 1, 2, and 3 GHG emissions
	 Assess other measures to minimize emissions Assess offset/allowance options Complete cost benefit analysis
GHG Mitigation Review	Assess recovery of GHG mitigation costs as capital/operating and fuel costs
Finalize Carbon Strategy	 Communicate project costs and benefits to Upper Mgmt Demonstrate environmental stewardship Minimize potential impacts of future GHG regulation Align interests of Ruby Shippers by optimizing capital costs in an evolving regulatory environment
Execute	 Carbon neutral products sourced to mitigate construction emissions Track and purchase available products for complete neutralization of emissions Develop compliance tools

Ruby Scope 1 GHG Emissions

Thousand MT CO₂e



Emissions based on 1.4 Bcf design @ annual avg ambient conditions BAU design assumes all gas compression, no internal pipe coating Final design assumes gas & electric compression, internal pipe coating



Benefits of Internal Pipe Coating 1.4 BCF Final Design

HP Requirements & GHG Emissions for Coated vs. Non-Coated Pipe





Achieving Carbon Neutrality

- Basis of emission estimates
 - EPA MRR combustion factors & estimated fuel use
 - Vented and fugitive factors from INGAA GHG guidelines
 - E-GRID factors for indirects
- Mitigation w/in 1 yr of verification
- Design mitigation measures
 - Leadership in Energy and Environmental Design (LEEDs)
 - Reduced valves/flanges
 - Turbines equipped w/dry gas seals & electric starting system
- Offset /Allowances "Portfolio" Approach

Scope 1 and 2 Emissions—Annual Operation





Achieving Carbon Neutrality

Scope 3 Emissions—Project Construction



Mobile emissions

- Construction equipment based on EPA non-road factors
- Gasoline fueled vehicles based on EPA factors
- Diesel fueled vehicles based on WRI's GHG Protocol/Mobile Guide
- Combustion emissions based on EPA MRR factors
- Mitigation w/in 1 yr of verification
- Offset/Allowances "Portfolio" Approach
 - 175K MT CO₂e purchased to date
 - Reforestation
 - The Climate Action Reserve
 - Regional Greenhouse Gas Initiative



GHG Cost Recovery

FERC Gas Tariff

Shipper will pay for voluntary GHG costs

Recovery through electric power cost (EPC) surcharge, annual limit applies

- Costs from RECs, GHG offsets or allowances
- Includes cost to offset all annual GHG emissions
- Quarterly adjustment filings will be made
- Future mandatory costs resulting from climate change policy are subject to tariff revision and approval



Ruby → Carbon Neutral



Achieving Carbon Neutrality





Ruby's Roadmap to Compliance

Step 1 – Data Management

Scope 3 emissions

- ✓ Evaluate existing data management
- Implement process to track missing activity data
- Identify verification requirements activity data, support documentation, site visits

Scope 1 and 2 emissions

- Determine if current processes are sufficient to track pipeline related activity data
- ✓ Determine if current and/or near-term processes are sufficient to track facility related activity data
- Identify verification requirements PL and facility activity data, support documentation, site visits

Step 2 – Scope 1 Emissions Monitoring

 ✓ Complete cost benefit analysis based on estimated emissions & current \$/CO₂e tonne

Develop monitoring plan for project commissioning

- Evaluate PL DOT leak survey requirements & assess if fugitive emissions monitoring of PL components is warranted
- Incorporate Subpart W monitoring methods and define other monitoring methods as needed
- Define procedures for QA/QC, instrument calibrations, measurement methodology, etc.
- Pre-survey of component inventory

Resources, schedule, budget planning



Ruby's Roadmap to Compliance

Step 3 – Actual Emission Estimates

Scope 3 emissions

• Develop monthly reporting platform for actual emissions

Scope 1 and 2 emissions

- Evaluate and adapt existing data management and reporting platform for facility activity data and direct emissions per EPA MRR methods
- Evaluate and adapt existing data management for PL related activity data to complete comprehensive reporting
- Develop reporting platform for PL related activity data to complete comprehensive reporting requirements

Verification of Scope 1-3 Emissions

Coordinate kick-off verification meeting

Step 4 – Purchase Carbon Offsets

NLT December 2012

 Purchase offsets/allowances as needed based on verified Scope 3 emissions

NLT December 2013

 Purchase offsets/allowances as needed based on verified Scope 1 and 2 emissions



Questions?



Naomi Cortez naomi.cortez@elpaso.com (719) 520-4799





Thank you for your time!

