# 2014 Management Round Table Houston, TX



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# Agenda

North America E&P	Jeff Shellebarger
Deepwater	Steve Thurston
Permian Basin	Bruce Niemeyer
Break	
Global Exploration	Bobby Ryan
	Pierre Breber
Gas and Midstream	Colin Parfitt
	Patrick Blough
Break	
Lunch	John Watson



15 min.
45 min.
45 min.
15 min.
60 min.

#### 45 min.

15 min. 90 min.

# **Cautionary Statement**

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Certain terms, such as "unrisked resources," "unrisked resource base," "recoverable resources," and "oil in place," among others, may be used in this presentation to describe certain aspects of the company's portfolio and oil and gas properties beyond the proved reserves. For definitions of, and further information regarding, these and other terms, see the "Glossary of Energy and Financial Terms" on pages 58 and 59 of the company's 2013 Supplement to the Annual Report and available at Chevron.com.

As used in this report, the term "project" may describe new upstream development activity, including phases in a multiphase development, maintenance activities, certain existing assets, new investments in downstream and chemicals capacity, investment in emerging and sustainable energy activities, and certain other activities. All of these terms are used for convenience only and are not intended as a precise description of the term "project" as it relates to any specific government law or regulation.

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# North America Exploration & Production

#### Jeff Shellebarger President, Chevron North America Exploration and Production



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# Leading North America Positions

#### San Joaquin Valley 177 MBOED

- Largest producer in California
- >17,000 operating wells
- International Heavy Oil Center

#### **Mid-Continent** 226 MBOED

- 2<sup>nd</sup> largest producer in the Permian
  - 1.9MM net acres
  - Midland and Delaware basins
  - 17,000 well prospects

#### Canada 71 MBOED

- Progressing Kitimat LNG
- Promising Duvernay play
- Oil sands and offshore projects

# 38 MBOED

#### **Gulf of Mexico** 216 MBOED

- One of the largest producers and leaseholders
- 2014/15 start-ups: Jack/St. Malo, Big Foot and **Tubular Bells**



#### Appalachian/Michigan

High-quality resource Proximity to premier markets Expansion potential

Base Shelf assets; significant remaining potential

Production based on 2013 results

# Significant Growth to End of Decade



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# **Deepwater Exploration and Projects**

#### **Steve Thurston**

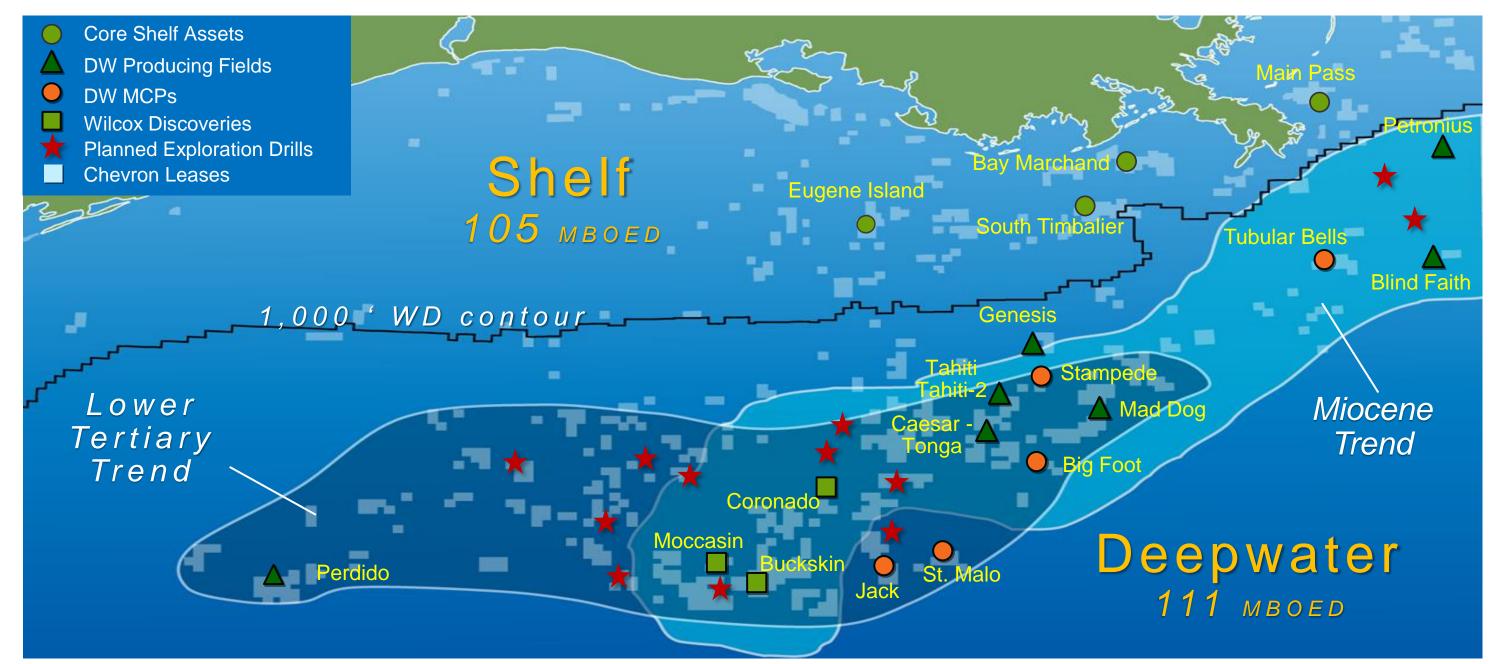
Vice President, Deepwater Exploration and Projects



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# Leading Player in the Gulf of Mexico





Production based on 2013 results 8

# Gulf of Mexico Start-ups

## Jack / St. Malo

- Planned start-up in 2014
- 177 MBOED capacity
- FPU installed
- Testing of flowlines and export pipelines complete
- 4 wells ready for start-up



# **Big Foot**

- Planned start-up in 2015
- 79 MBOED capacity
- TLP tow to location in 2014
- 2 wells pre-drilled
- Oil export pipeline installed



## **Tubular Bells**

- production



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 Operator forecast 3Q 2014 start-up 44 MBOED gross Project ~90% complete Commissioning in progress

FPU – Floating Production Unit; TLP – Tension Leg Platform

# **Deepwater Gulf of Mexico Potential**

#### Prolific petroleum basin

9 billion BOE produced

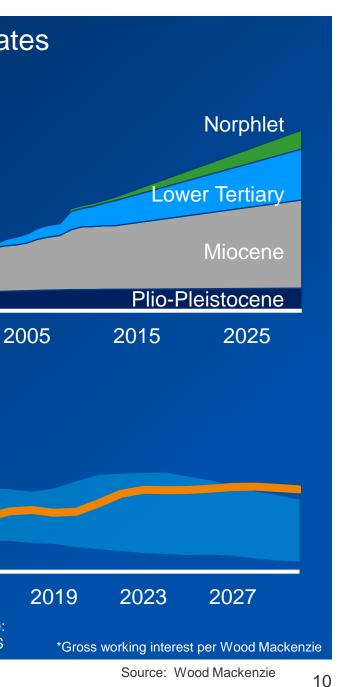
## Significant resource potential

- 24 billion BOE discovered
- Future discoveries estimated at ~14 billion BOE

# Chevron well-positioned for long-term growth

**Cumulative Resource Estimates** Discovered / Yet-to-Find BBOE 40 30 20 10 1975 1985 1995 **Production Estimates**\* MBOED 500 250 0 2003 2007 2011 2015 CVX **Competitor Range:** APC, BP and RDS





# Technology Enabling Deepwater From "Top to Bottom"

## Seismic Imaging

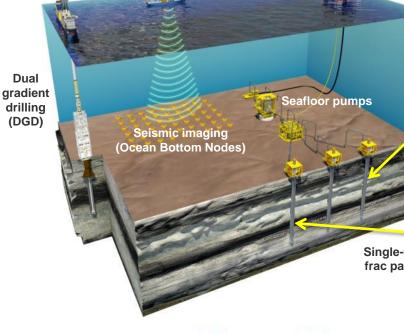
- **Ocean Bottom Nodes**
- **Reverse time migration**
- Integration of 3D basin and mechanical earth models

# **Drilling & Completions**

- Single Trip Multi Zone Frac Pack (ESTMZ<sup>™</sup>\*)
- **Dual Gradient Drilling**

# Subsea Systems

- Single and multi-phase seabed pumping
- In-well Electrical Submersible Pumps



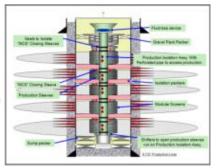






In-well retrievable ESP

Single-trip multi-zone frac pack completion



# Permian Basin

#### Bruce Niemeyer Vice President, Mid-Continent Business Unit



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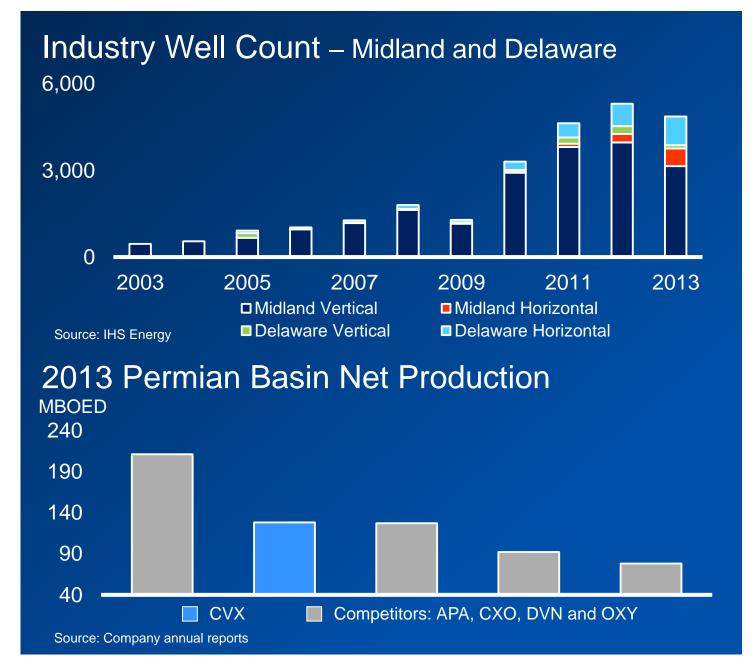
# **Permian Competitive Position**

#### **Industry Trends**

- Focused on liquids-rich plays
- Shift to horizontal wells
- Increased activity in Delaware Basin

## **Competitive Producer**

- Second largest producer in basin
- > 5 billion barrel opportunity
- Participated in ~10% of total Midland and Delaware wells in 2013





# Strong Position, Value Focused Development

#### Superior lease position

- Largest undeveloped lease holder\*
- 1.9 MM net acres across basin; 17,000 well prospects

#### Advantaged acreage

- ~60% no royalty, ~30% low royalty
- Low lease holding costs; Access to infrastructure

#### Stacked play advantage

- Acreage multiplier
- Multiple wells from each location; lowers risk and cost

#### Efficient exploitation strategy

- Not lease-term driven
- Leverage existing and share new facilities



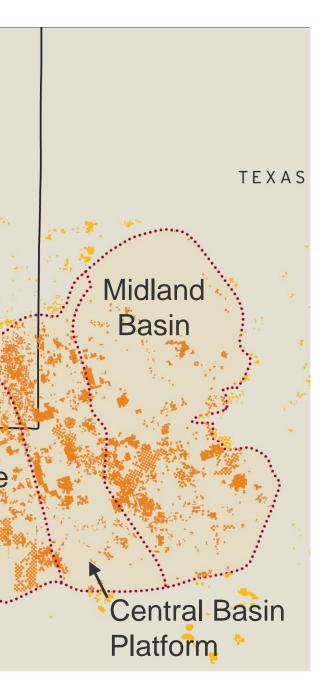
Chevron Lease Acreage

Chevron Lease Acreage

**Outside Permian Basin** 

\* Source: Wood Mackenzie





# **Unconventional Opportunities**

# Midland Basin

## Vertical play

- Wolfcamp/Cline plays
- **Development concentrated on** western and eastern slopes

## Horizontal play

- Development suited to central part of basin
- Strong industry results in the vicinity

# **Delaware Basin**

#### Approach

- Leverage partners to de-risk plays
- Continuing appraisal while transitioning to development
- Building queue to accelerate growth

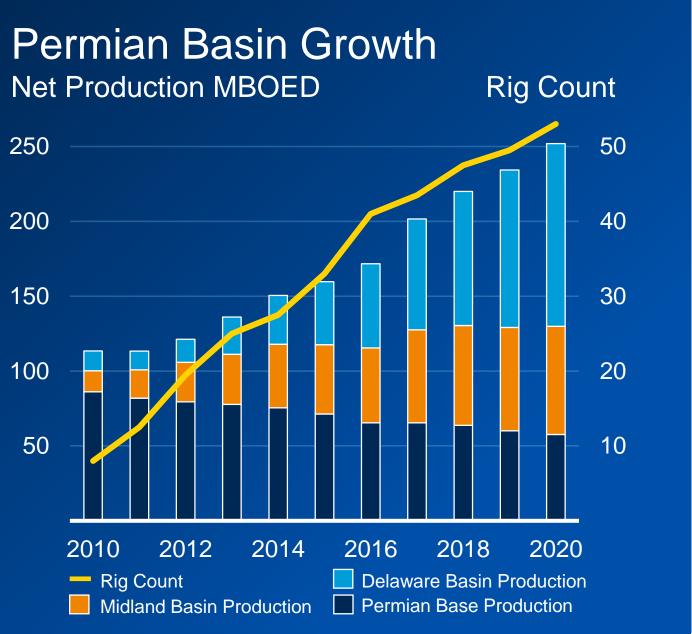
## Infrastructure

- Gathering, processing and transportation
- Electric and water distribution



# Long-Term Potential

- Long-term growth with high value
- Shorter cycle time; limited non-productive capital
- De-risking areas before moving to a 'manufacturing' mode
- Optimizing developments for the long-term





# Global Exploration Bobby Ryan Vice President, Global Exploration



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ALL LEWING

# Exploration Strategy Sets Direction & Drives Discipline

## **Exploration Strategy**

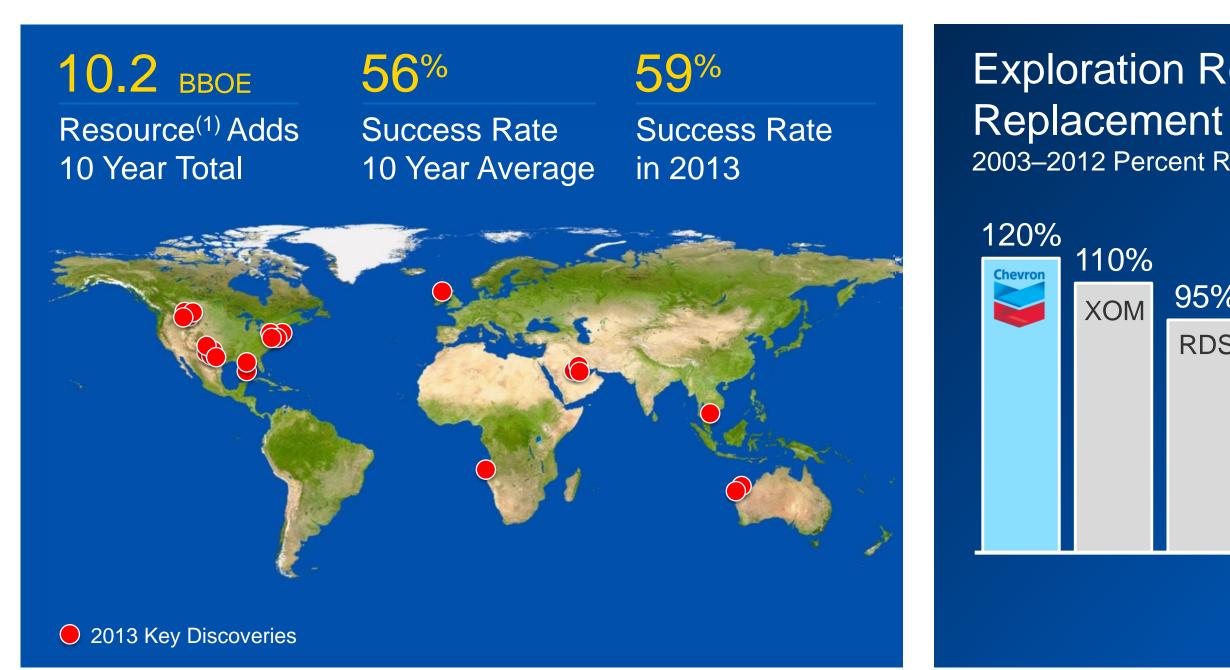
- Technical excellence
- Focused and high-impact
- Risk-balanced global portfolio
- Benchmarked and competitive





#### **Business Unit Leadership**

# **Consistent Exploration Success**

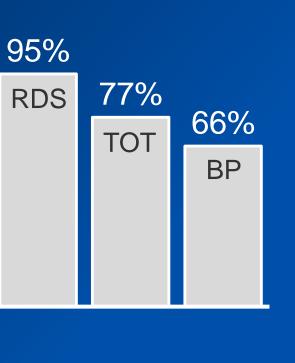


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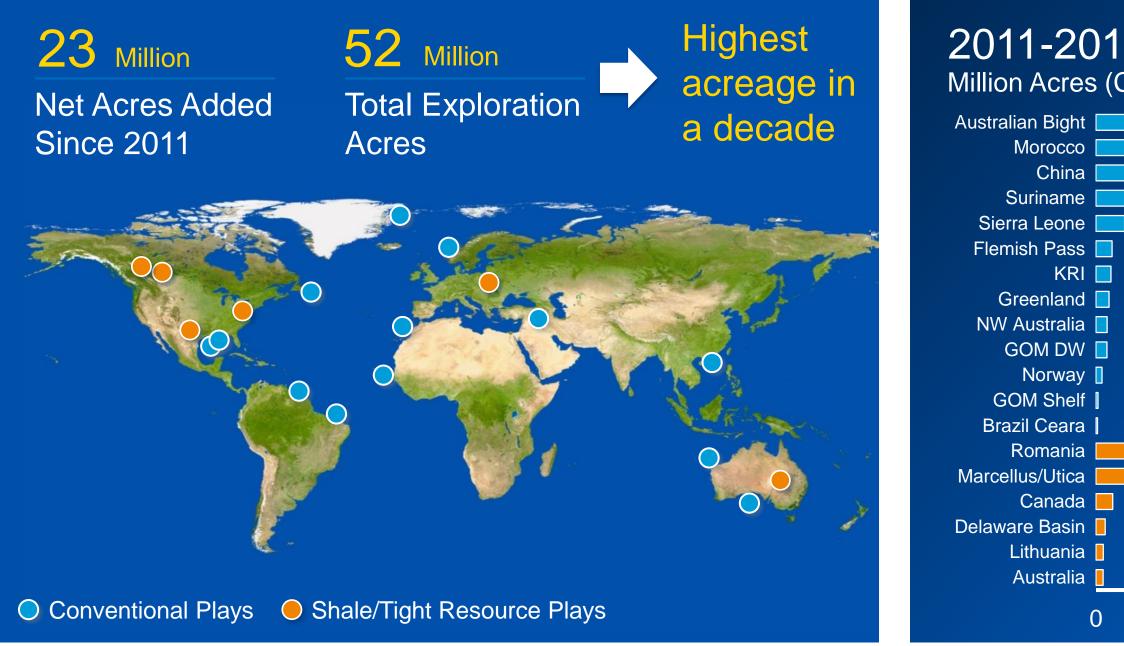
(1) Recoverable resources as defined in the Supplement to the Annual Report and available at Chevron.com (2) Based on Wood Mackenzie estimates of commercial, sub-commercial and unconventional resources



# Exploration Resource<sup>(2)</sup> 2003–2012 Percent Replacement



# New Acreage is Required as Focus Areas Mature



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Exploration acreage represents a sub-set of the total reported in the 10-K as "undeveloped acreage"

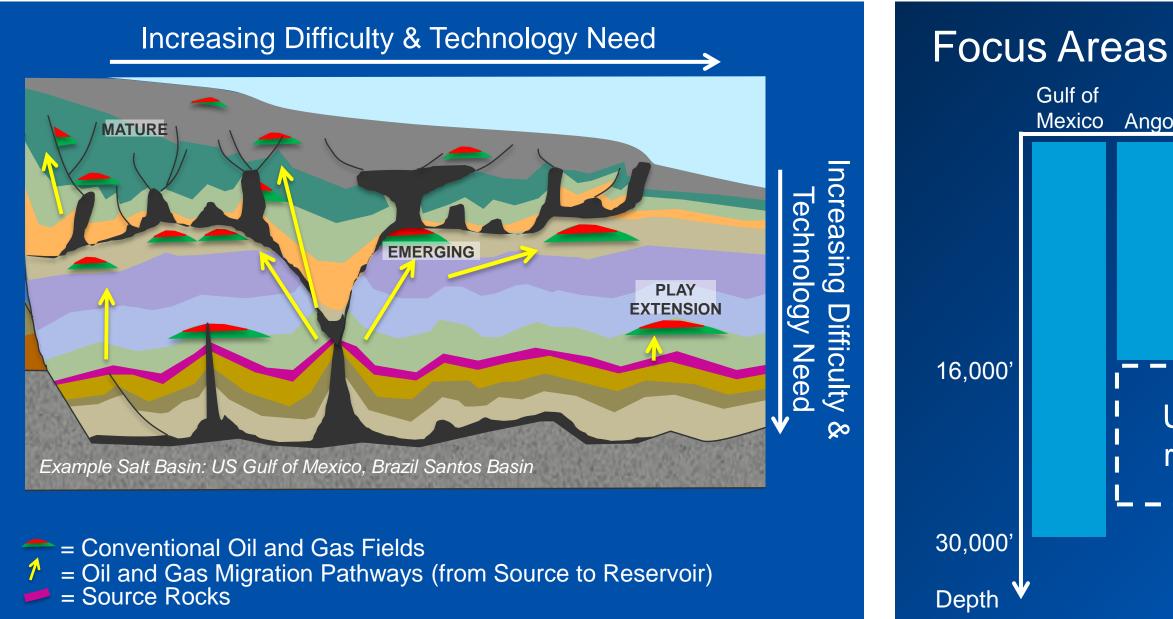








# New Plays in Old Areas – High Potential, Lower Risk



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# Mexico Angola Nigeria Australia **Un-explored** rock volume

# **2014 Exploration Program Highlights**



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# Gas and Midstream

#### Pierre Breber

Corporate Vice President and President, Chevron Gas and Midstream



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# Gas and Midstream Organization



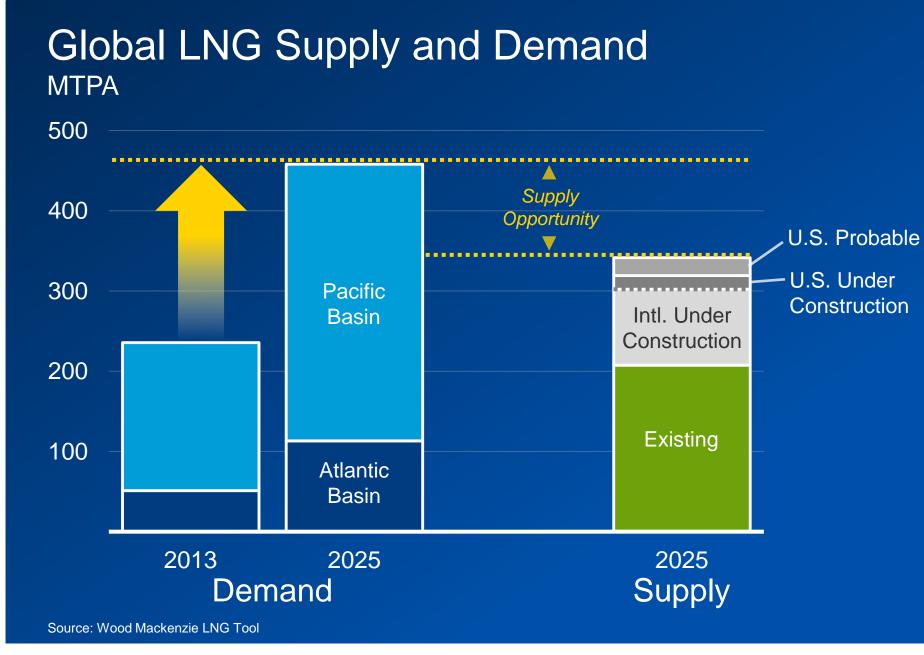
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#### Energy **Solutions**

# ownstr

# LNG Outlook



# LNG demand expected to almost double by 2025 Over 100 MTPA of new supply

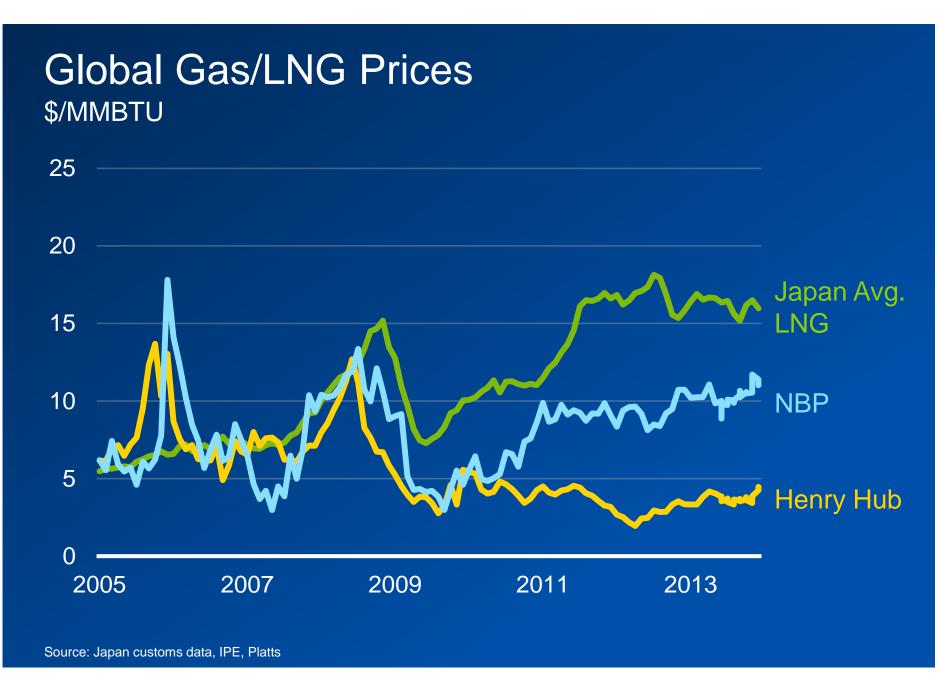
required

Robust pricing needed for greenfield projects

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# **Regionally Distinct Gas Pricing**



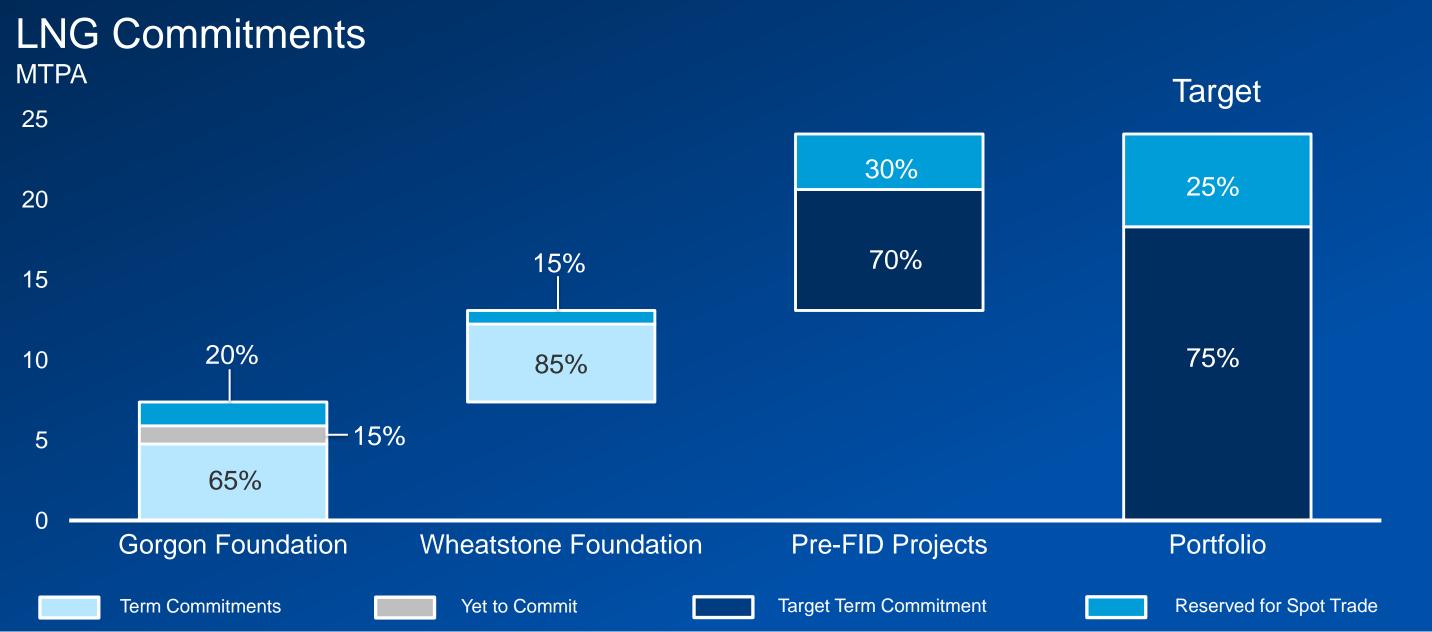
Market characteristics and drivers differ

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## **Regional gas** markets are expected to persist

# LNG Project Portfolio



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# **Midstream Businesses**

Shipping: Expanding global fleet of LNG ships

Supply and Trading: Flow assurance, value optimization and commercial opportunity capture

Pipe Line and Power: Aligning assets with enterprise strategies



