

# School of Energy

RBN's Latest Crude, Gas, NGL, Refined Products and Renewables Curriculum

## Connection – Mastering Oil, Gas and NGL Market Links Is Key to Surviving New Era in Energy

Across the energy landscape, from oil to gas to NGLs to products (renewable fuels too!), commodities and markets are more interconnected than ever before. Domestic crude prices, which are top of mind for producers planning future production, are now joined at the hip to international markets through surging exports and a WTI now included in the international Brent benchmark. What happens in crude-focused production basins like the Permian will have far-reaching effects as growing volumes of associated natural gas flow through new processing plants and pipelines to Gulf Coast LNG export markets, which will see another stair-step up in capacity as early as next year.

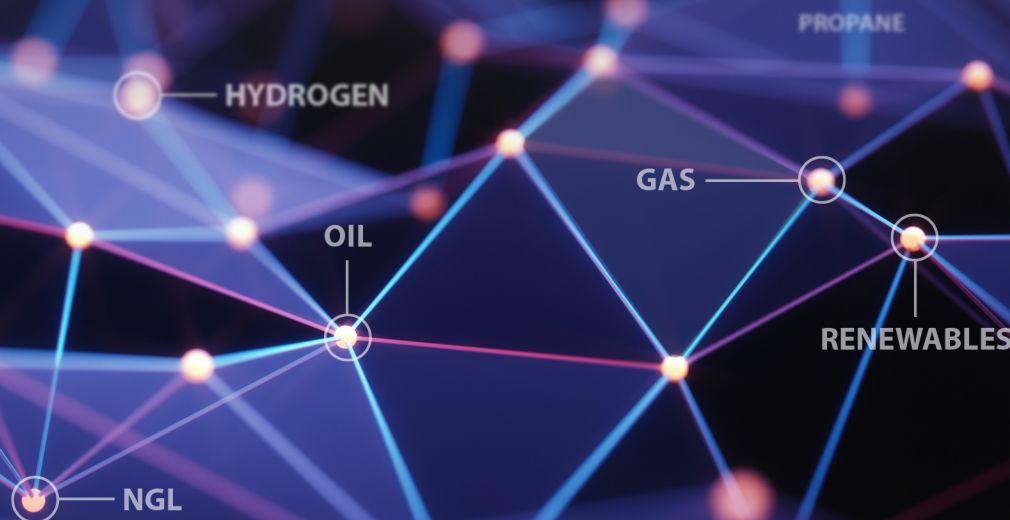
The market is changing, and the stakes are huge. Understanding the connections among energy commodities — and what they mean for your business — is absolutely essential to not only survive the next phase of energy evolution but also to identify and capitalize on opportunities.

At RBN's upcoming School of Energy we will provide a forum for energy professionals to acquire essential knowledge and an in-depth understanding of the industry and its interconnections, recent trends and an outlook for upcoming changes.

**Sept 19 & 20, 2023**

**Houston, TX**

**The Houstonian Hotel**



# Making Connections Across Energy Markets

At School of Energy, attendees will get educated on the different components of the energy market and how they interrelate. You will learn how to monitor these markets, spot opportunities, and understand the possible impacts of taking action. You will also get a better idea of the current state of the market, as well as potential future trends that could affect them or their businesses. Just as important, you

will get a chance to meet other energy professionals with diverse backgrounds and critical insights.

RBN's 17th School of Energy will be held September 19- 20, 2023, at The Houstonian Hotel in Houston. Get ready to immerse yourself in the interconnected world of energy and find out what trends major market players are pumped-up for, keeping close track of, or have them downright nervous.

## Register Now!

**Early Bird Rate Through August 31: \$1,950**

**September 1 and on: \$2,450**

Group rates available by contacting  
Scott Potter at [spotter@rbnenergy.com](mailto:spotter@rbnenergy.com).

Questions: [school@rbnenergy.com](mailto:school@rbnenergy.com)  
and **888-612-9488**

More Details at  
[rbnenergy.com/school-of-energy](https://rbnenergy.com/school-of-energy)

## School of Energy Faculty



**Rusty Braziel**  
Executive Chairman,  
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**David Braziel**  
President & CEO,  
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**Scott Potter,**  
Managing Director,  
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**TJ Braziel,**  
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**Robert Auers**  
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**Martin King**  
Senior Analyst and  
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**Jeremy Meier,**  
Production Analyst,  
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**Albert Marc Passy**  
Commodity Analyst



**Rock Graham**  
Regional Manager,  
Origination &  
Producer Services,  
Wholesale Natural  
Gas

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CANARY**

# RBN School of Energy Curriculum: September 19-20, 2023

*Subject to Change*

## Registration & Breakfast – 7AM

### Day 1: Welcome, Introductions – 8AM

#### Module #1: Fundamentals

Market Update: Interconnectivity: Consolidation,  
Exports and Transition Stall  
The Fundamentals of Fundamentals  
North American NGL Fundamentals

#### Break

Understanding Energy Fundamentals Models  
*LAB Model – Propane to Crude Ratio*

#### Module #2: Production

Production Economics – The Basics  
*LAB Model – Production Economics*

### Lunch – 12PM

Forecasting Production: Concepts and Methodologies;  
Current Trends  
Oil, Gas and NGL Production Forecasts

#### Module #3: Crude Oil Markets

Crude Oil Market Overview, Export Drivers and  
Constraints  
Permian Crude Infrastructure, Flows, Constraints

#### Break

Fundamentals of Refining: Units, Processes and  
Products  
Crude Quality: Implications for Prices, Pipelines  
and Refining  
Crude Oil Pricing Mechanics and Domestic Trends  
Refined Products Outlook  
Renewable Diesel and SAF

### Happy Hour Reception – 5PM

### Day 2: Welcome Back – 8AM

#### Module #4: Natural Gas Markets

North America Gas Market Overview  
Natural Gas Prices and Demand  
*LAB Model – Key Driver of Demand: Coal to Gas  
Switching*  
LNG Exports, Feedgas, Projects and the European  
Impact  
Natural Gas Transportation, Rates and Regulation

#### Break

Appalachian Gas Balance, Egress, and Basis  
Permian Gas: Flow, Capacity, and Pricing Developments  
Certified Natural Gas

### Lunch – 12PM

#### Module #5: Natural Gas Liquids Markets

NGL Production, Demand, Price Volatility, and  
Ethane Rejection  
NGL Exports and International Markets  
Gas Processing

#### Break

Petrochemical (Steam Cracker) Feedstock Margins

#### Module #6: Renewables

Legacy CO<sub>2</sub>; EOR; Pore Space  
CO<sub>2</sub> Regulation-45Q  
Green, Blue, and Pink Hydrogen Projects  
Where Do We Go From Here  
Final Wrap

### Adjourn – 4PM

## Bonus Material and Lab Modules - Prerecorded

Production Forecast Model  
Crack Spread Model  
Refinery Yield Model  
Pipeline Rate Model  
Analytics Flow Data Model  
Frac Spread Model  
Gas Processing Model

Ethane Rejection Model  
Petchem Margin Model  
Hydrogen Conversions  
Production Forecast  
Petroleum Product Prices and Crack Spreads  
Refinery Yields and Representative Margins  
Estimating Rates for Natural Gas Pipelines

Gas Market Analytics Using Pipeline Flow Data  
The NGL Frac Spread  
Natural Gas Processing Model  
Ethane Recovery and Rejection Economics  
Petrochemical (Steam Cracker) Feedstock Margins  
Hydrogen Unit Conversion Calculator