

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

EARLY BIRD RATE
Through Aug 31 \$1,950



 **RBN Energy** LLC

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.

Questions: school@rbnenergy.com and **888-612-9488**

More Details at rbnenergy.com/school-of-energy

School of Energy Faculty



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Martin King
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RBN Energy



Albert Marc Passy
Commodity Analyst

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 1.5b – Propane to Crude Ratio

Module #2: Production

Production Economics – The Basics
LAB Model 2.1b – 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

Crude Quality: Implications for Prices, Pipelines and Refining
Crude Oil Pricing Mechanics and Domestic Trends
Fundamentals of Refining: Units, Processes and Products
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 4.1b: 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, and Price Volatility
NGL Exports and International Markets
Gas Processing

Break

Ethane Rejection
Petrochemical (Steam Cracker) Feedstock Margins

Module #6: Renewables

Legacy CO₂; EOR; Pore Space
CO₂ 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