



May 31, 2018

Energy

Linda BrandlVice President Marketing & Sales – Energy

Linda Brandl

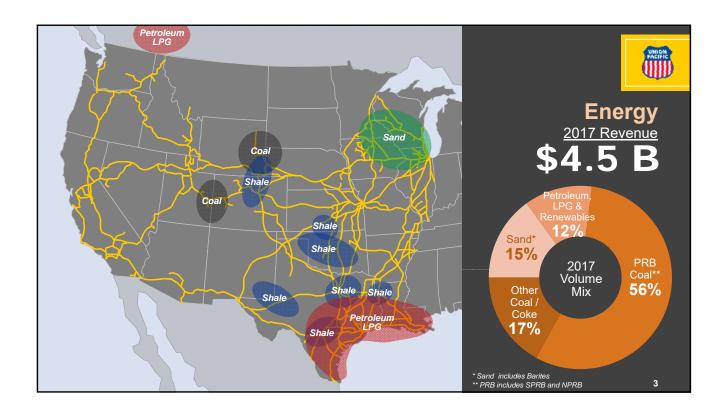
Vice President Marketing & Sales - Energy

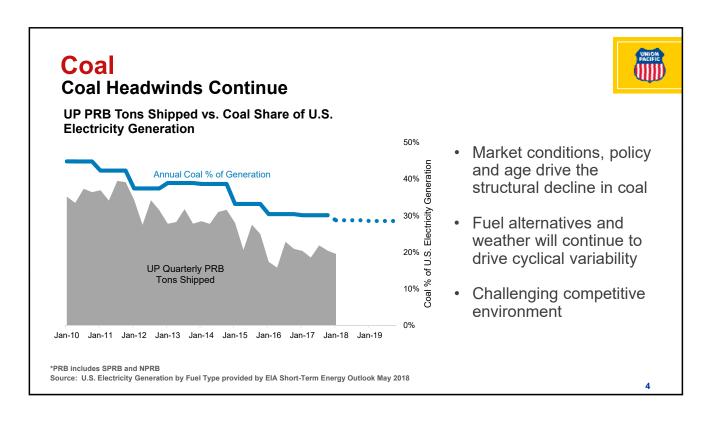
Linda Brandl was named vice president marketing and sales-Energy in September 2017. She is responsible for managing Union Pacific's coal, petroleum coke, frac sand, LPG, petroleum and renewables shipments.

Brandl has held various positions during her tenure with the railroad including recent assignments as vice president and general manager-Coal, vice president and general manager-Automotive and vice president of Union Pacific's National Customer Service Center. She was also president of Union Pacific Distribution Services (UPDS), a wholly owned subsidiary of Union Pacific Railroad, and held management positions in Chemicals, Coal, Automotive, and Premium Operations.



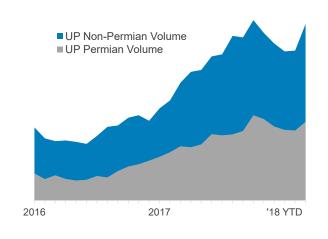






SandGrowing Proppant Demand in an Evolving Supply Chain





- Positive oil market outlook supporting shale drilling activity
- Interest, but uncertainty around in-basin sand
- Timing and adoption rate is unfolding
- UP is well positioned to serve multiple destination markets

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Energy Growth Opportunities

Global Demand for Coal
Oil Prices and Proppant
Demand

Crude Takeaways in Canada and Permian

Mexico Energy Reform
Export Biomass

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