

# Surface Transportation Board Rail Energy Transportation Advisory Committee Coal Producer Update

November 14, 2019

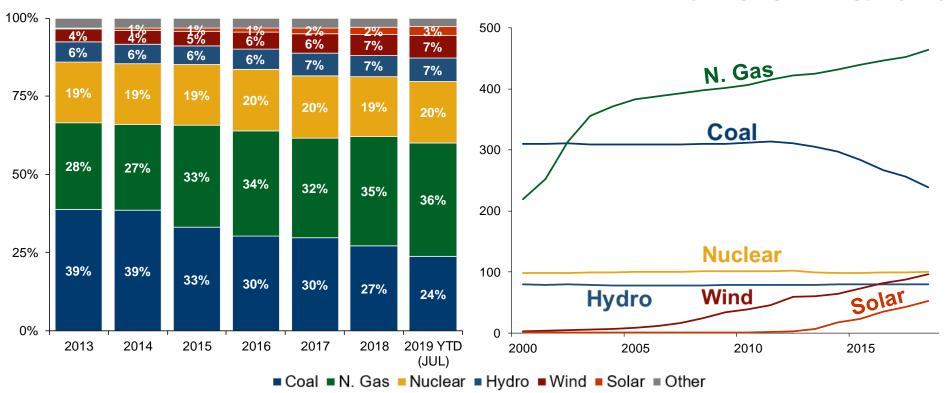
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# United States Electricity Demand and Coal Generation





### U.S. Generation Capacity By Fuel Type (GW)

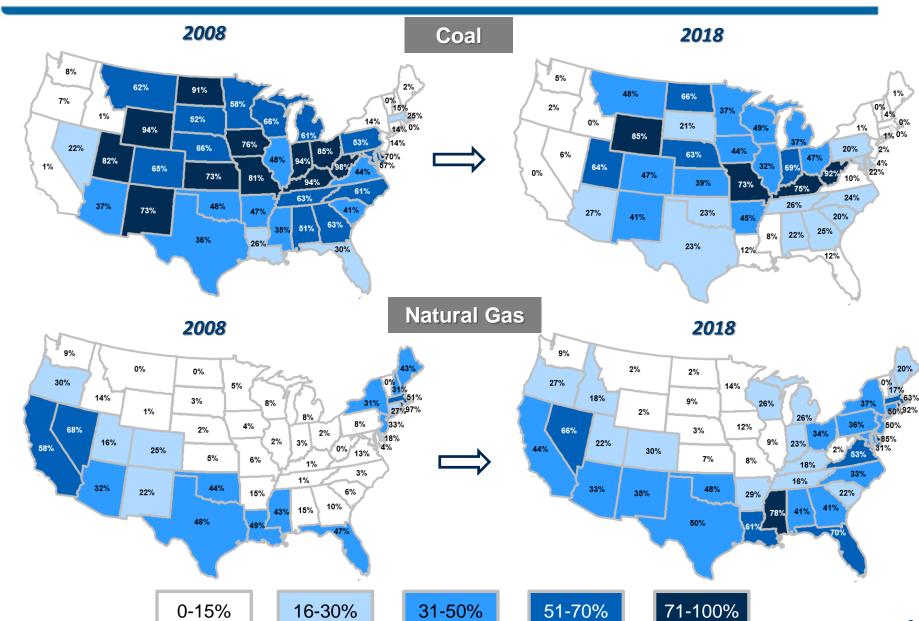


- Coal's share of the U.S. generation mix decline to 27% of total in 2018. Natural gas continues to gain, increasing to a record 35% in 2018.
- Renewables continue to increase largely driven by increased wind generation

# U.S. Generation Mix by State Coal and Gas

Source: EIA



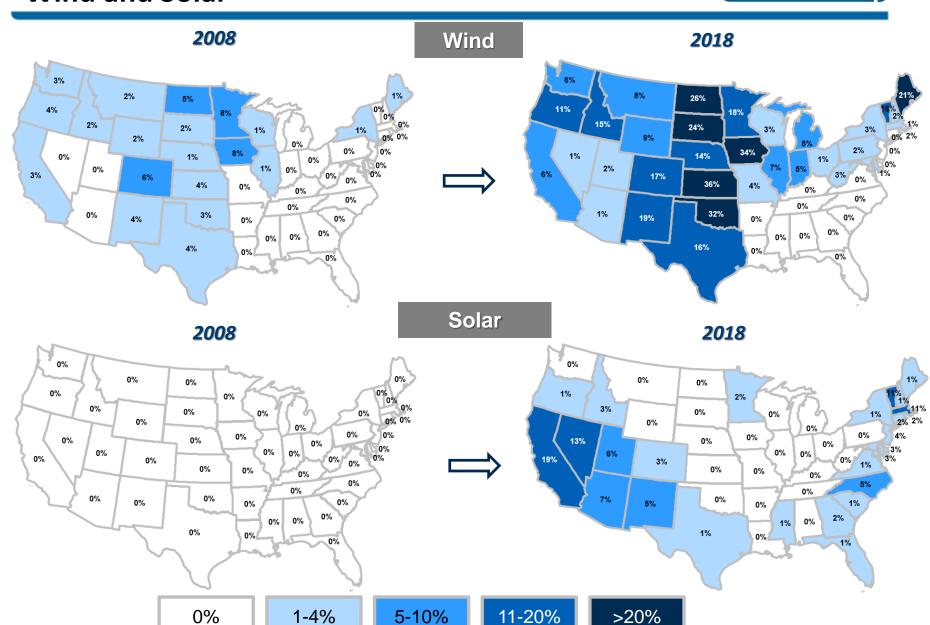


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# U.S. Generation Mix by State Wind and Solar

Source: EIA





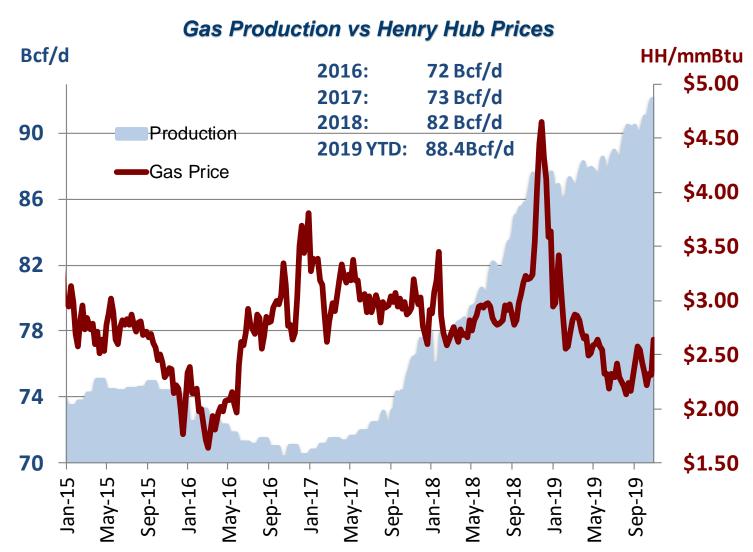
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## Despite Strong Demand Growth, Record Gas Production Keeping Prices Down



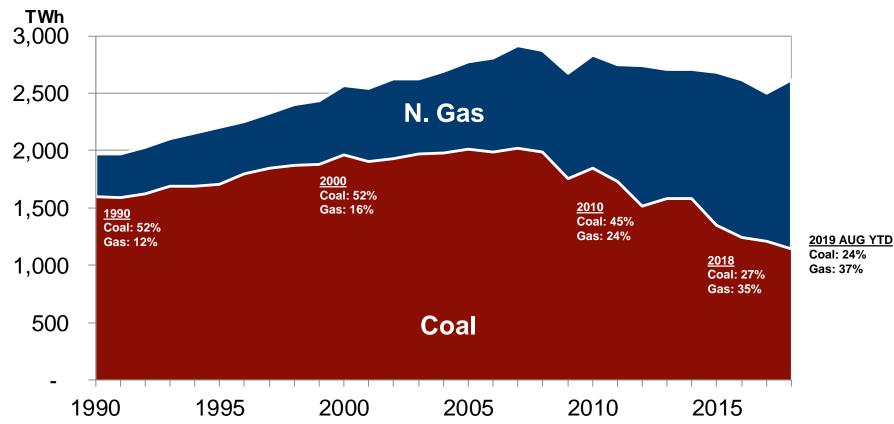
Source: PIRA, EIA, CME

# U.S. Generation Coal vs Natural Gas



### Limited Load Growth and Increasing Renewables, Intensifies Coal vs. Gas Competition

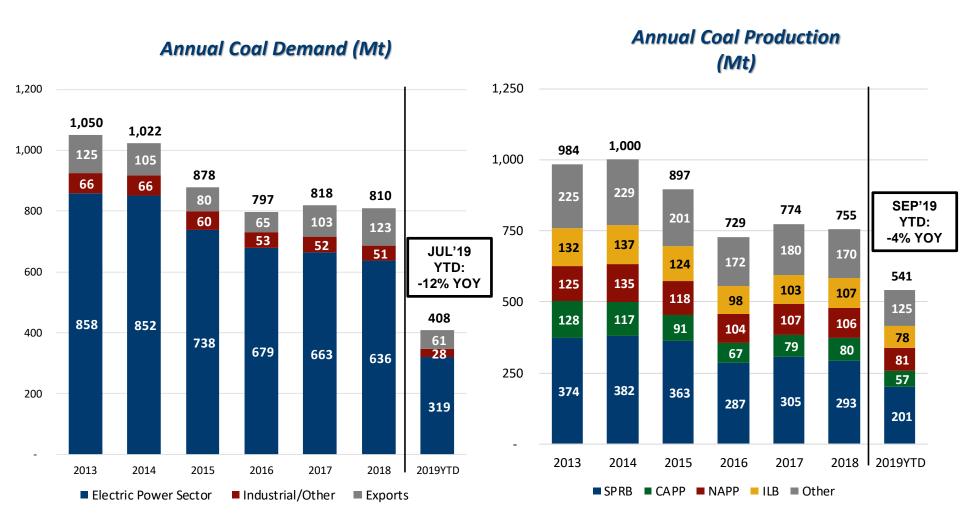




• The gap between gas and coal generation continues to widen, with gas at ~35% of mix and coal at ~27% of mix in 2018, compared to ~33% for both in 2015

## **U.S. Coal Demand by Sector**

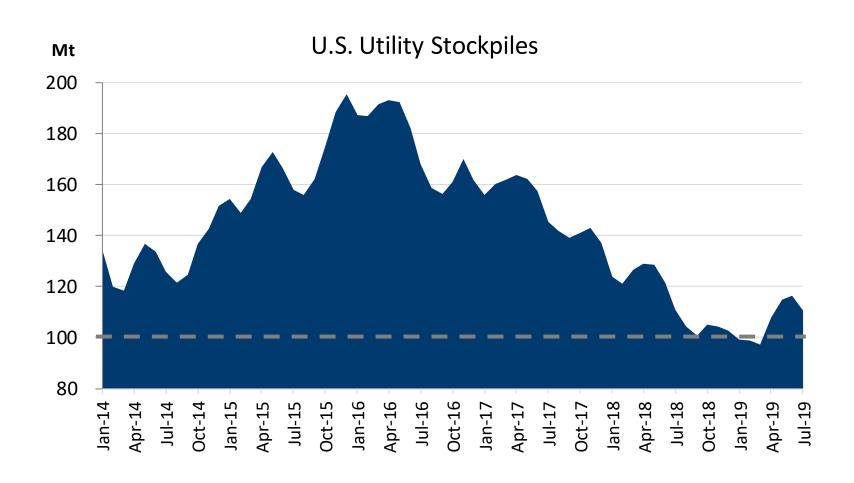




## **U.S. Stockpiles**



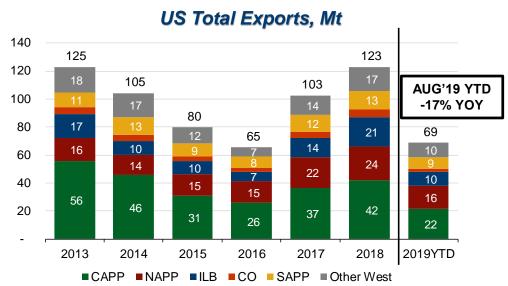
## U.S. Stockpiles Rebounding from Lows Hit in 1Q19



## **U.S. Coal Exports**

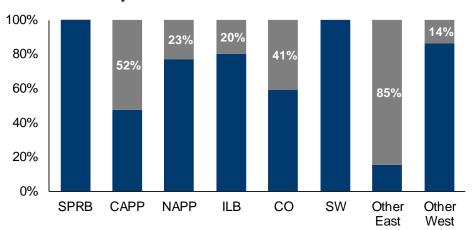


#### U.S. Seaborne Exports Increased Driven by Global Prices



- 2018 exports +20% YOY at 123Mmt; Thermal +23% at ~64Mt and met +16% at ~59Mmt
- Future trajectory of exports is highly dependent on pricing of US coal vs. other origins and demand for seaborne coal

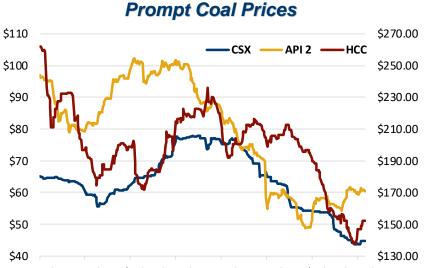
#### 2018 Exports as % of Total Production



■ Domestic Demand

SW Other Other 540
East West Jan-18 Apr-18 Jul-18 Oct-18 Jan-19 Apr-19 Jul-19 Oct-19

Exports



Source: EIA, EVA, CME, Bloomberg

# **2018 Global Supply and Demand Thermal Seaborne Coal Flows**



