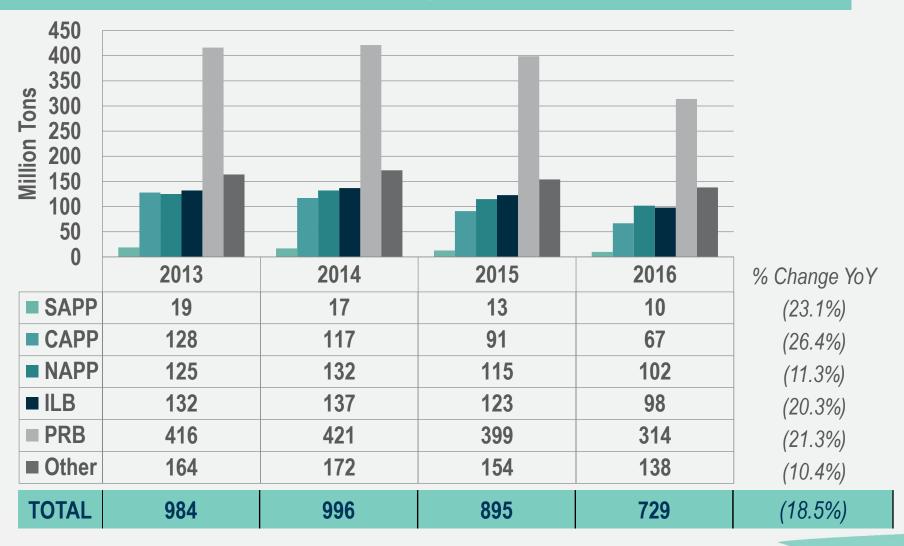


# **Domestic Coal**

**Statistics and Commentary** 



### U.S. Coal Production by Basin (million tons)



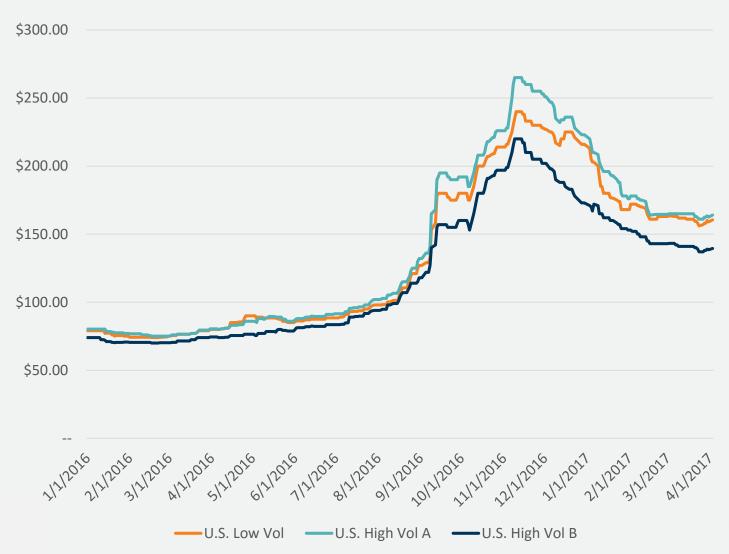
## U.S. Coal Car Loadings by Year



# Projected Domestic Thermal Pricing

	2017 Projections					Calendar Year Projections		
OTC Index	April	May	Q3	Q4	Q1 18	2018	2019	2020
Powder River Basin (PRB)								
8800 0.8	\$11.80	\$11.75	\$11.55	\$11.70	\$11.80	\$11.95	\$12.50	\$13.15
8400 0.8	\$9.20	\$9.20	\$9.20	\$9.35	\$9.45	\$9.60	\$10.15	\$10.80
Central Appalachia (CAPP)								
Nymex 12000 1.7	\$55.25	\$55.25	\$55.15	\$55.00	\$53.10	\$53.51	\$54.46	\$55.46
CSX 12500 1.6	\$52.00	\$51.25	\$53.00	\$52.90	\$53.10	\$53.51	\$54.46	\$55.46
NS 12500 1.6	\$56.00	\$56.00	\$55.50	\$55.00	\$54.15	\$54.15	\$55.31	\$56.31
Northern Appalachia (NAPP)								
MGA Rail 13000 4.0/4.5	\$48.50	\$48.50	\$47.25	\$47.25	\$47.00	\$47.00	\$48.00	\$49.00
Mon Rvr 13000 4.8	\$42.25	\$42.25	\$41.50	\$41.50	\$42.00	\$42.00	\$41.50	\$42.50

## Historical Metallurgical Coal Pricing



# 2017: Year of Evolving Energy Policy

Announced coal-related action that has already begun





#### **REPEAL**

Stream Protection Rule

#### **RESCIND**

Clean Power Plan

#### **REVOKE**

Coal Leasing Moratorium

# Pledged action yet to come



#### **RESCIND**

Waters of the U.S.

#### **ADDRESS**

U.S. Involvement in Paris Climate

Agreement

## Policy Impacts to Coal Industry

# REPEALING STREAM PROTECTION RULE

Annual value
of coal lost
to the rule's
restrictions
would have
been between
\$14-29 Billion



Under the final rule, the recovery of demonstrated coal reserves (both surface and underground) was estimated to decrease

64%

# RESCINDING CLEAN POWER PLAN

Rescinding the Clean Power Plan preserves

#### 240 million tons

of annual coal production.

If implemented, the CPP 25% forced an additional of coal generation capacity off the grid, enough to power



# REVOKING COAL LEASING MORATORIUM

In fiscal year 2012 alone, the current federal coal leasing program generated

\$1.2 billion

in revenue to federal and state governments.

Potential impacts from the coal leasing moratorium and associated PEIS process included increased royalty rates and delayed permitting decisions, thereby increasing costs of producing coal on federal lands despite federal royalty rates being

30 - 65 % higher

than prevailing rates for private coal.

### #ThrowbackThursday... to April 2015

#### Technology Continues to Advance... Slowly

- Conceptual design for Mississippi Power's Kemper County Energy Facility began in 2008, with earthwork beginning in 2010.
- A number of delays have postponed the plant's scheduled operation and production dates (now expected in the first half of 2016) and added significant cost to the project.
- Initial 2004 forecasts
   estimated the project would
   cost \$2.2 billion, but ten years
   later, Mississippi Power's
   October 2014 public filing
   estimates the total project cost
   at \$6.1 billion, nearly triple
   original estimates.



SOURCE: Mississippi Power



Technology Continues to Advance... Slowly

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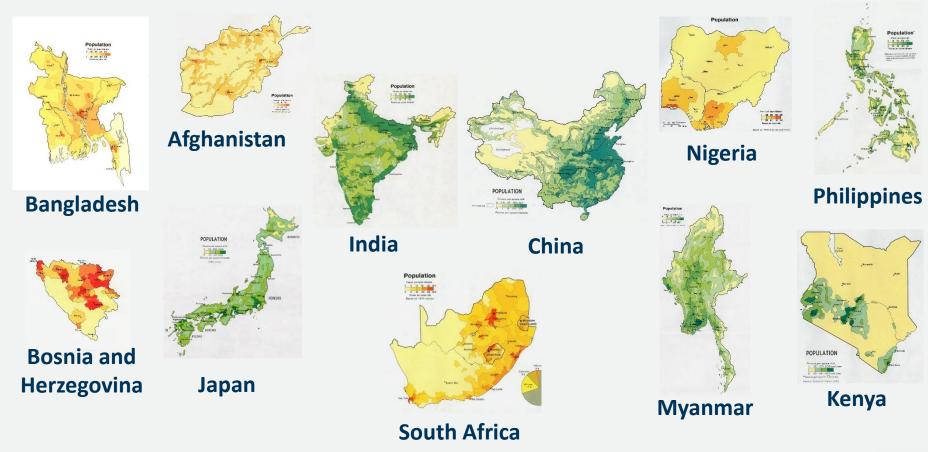
estimated



SOURCE: Mississippi Power

### Where We're Headed: Technological Advances

Commitment to high-efficiency, low-emissions coal technology has become a priority for several countries and a critical part of their pledges made for the Paris Climate Agreement.



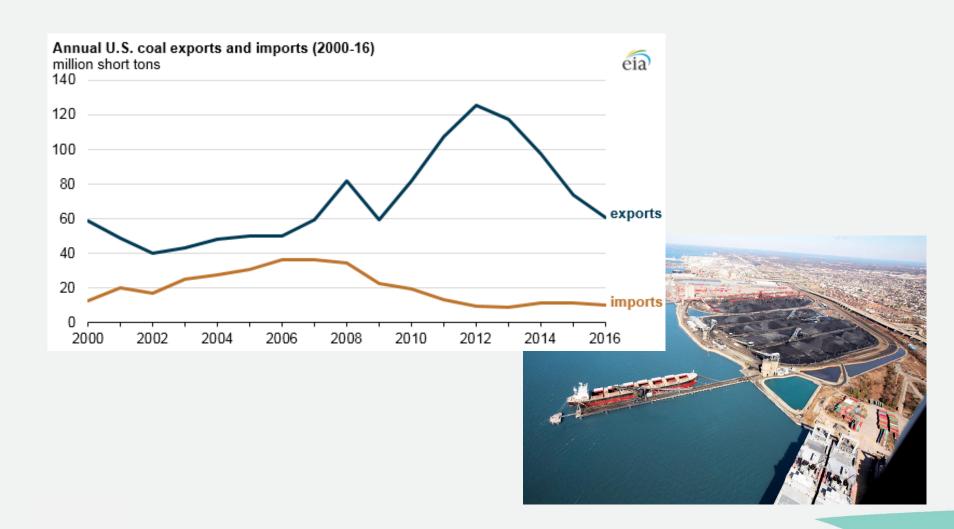


# Global Coal

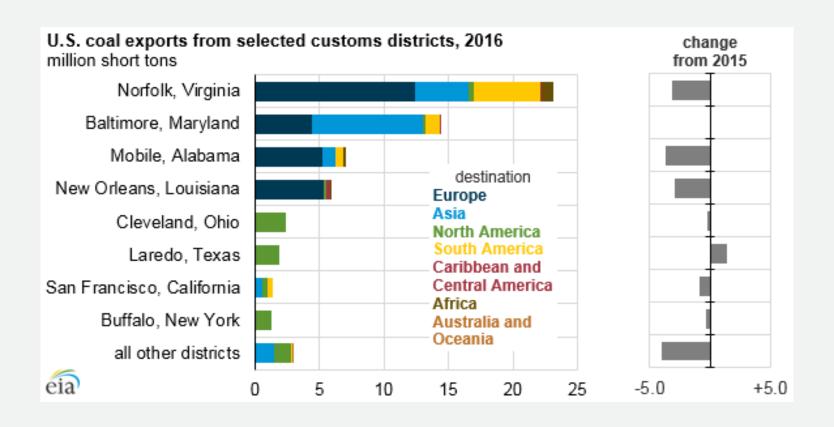
**Statistics and Commentary** 



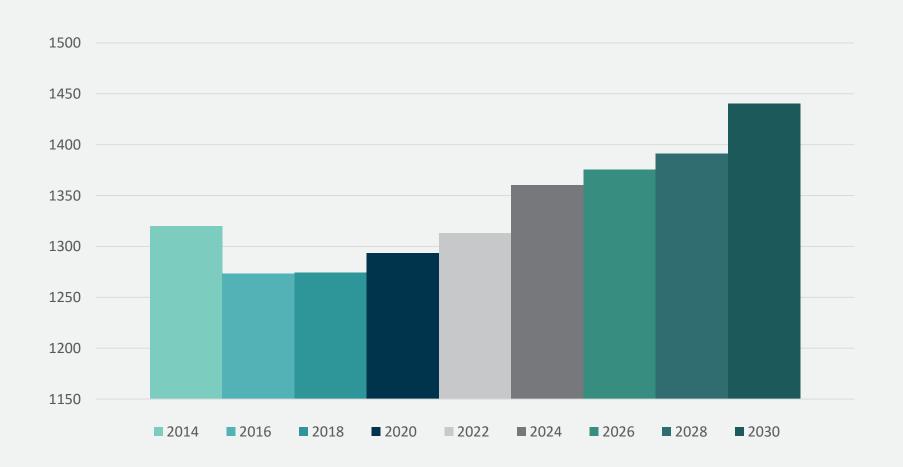
## U.S. Coal Exports and Imports Timeline



### U.S. Coal Export Districts and Destinations



### Projected Global Coal Demand (million tonnes)



### Influences on the Global Coal Market

China's Workday Rules





Cyclone Debbie in Australia

Climate Change Policies





Inelasticity of U.S. Supply

# Weather Update: Cyclone Debbie

