

### **Key Themes for Discussion**

- Coal continues to fuel the global economy
- Affordable, reliable energy from coal supports economic goals
- Deployment of advanced technologies offers proven success
- Public policy decisions must support technology adoption







### Peabody: The Leading Global Pure-Play Coal Company

- U.S. headquartered,
   NYSE-listed and member of Fortune 500
- Company offers significant scale, high-quality assets and diversity in geography and products
- Sold 187 million tons of coal to customers globally in 2018
- Core portfolios include:
  - Seaborne thermal
  - Seaborne metallurgical
  - U.S. thermal

### 23 operations

in U.S. and Australia

\$5.6 billion

2018 Revenues

4.9 billion

Tons Proven/Probable Reserves

7,600

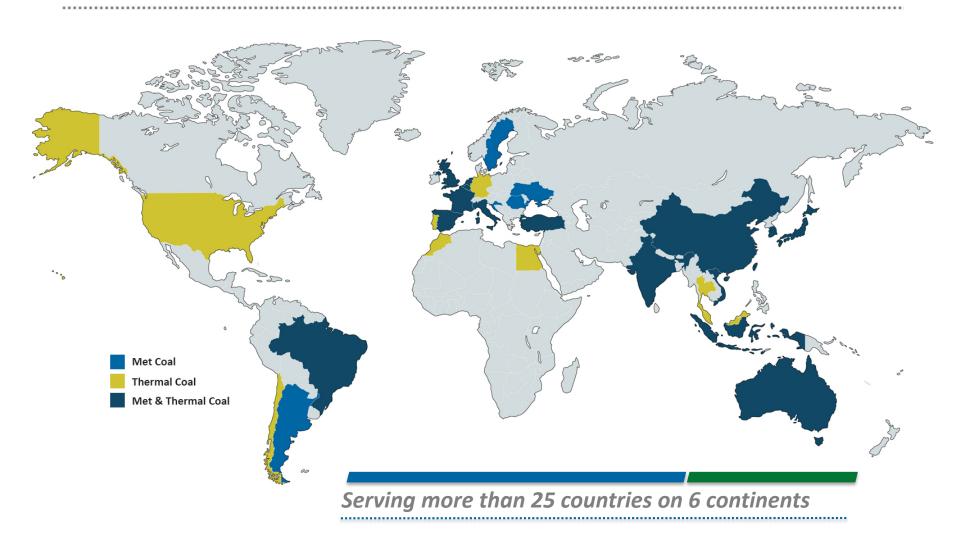
**Employees Globally** 

25+ countries

Served by Peabody



## Peabody Offers Extensive Diversity of Geography, Customers and Products





## **Coal Use Extends Well Beyond Electricity Generation**

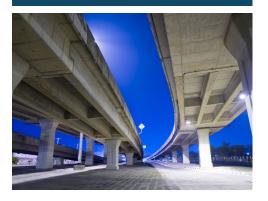
Original
Steel
Making

1 billion tonnes annually



Energy for Cement

**70%** of the energy for production



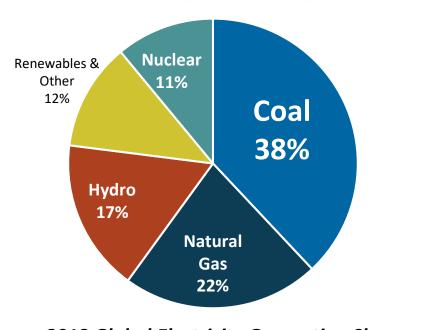
Wind Turbine Production

200 tonnes per turbine

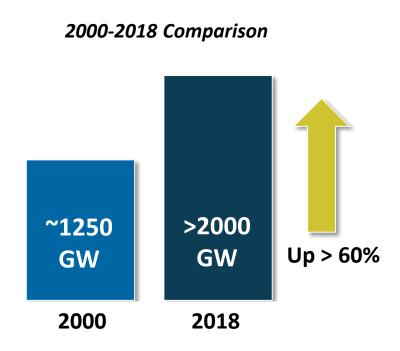




## **Coal Fuels the Global Economy World Consumes 8 Billion Tons Per Year**



2018 Global Electricity Generation Share



#### Global coal capacity exceeds 2,000 GW for first time ever

Global coal generation up more than 60% since 2000

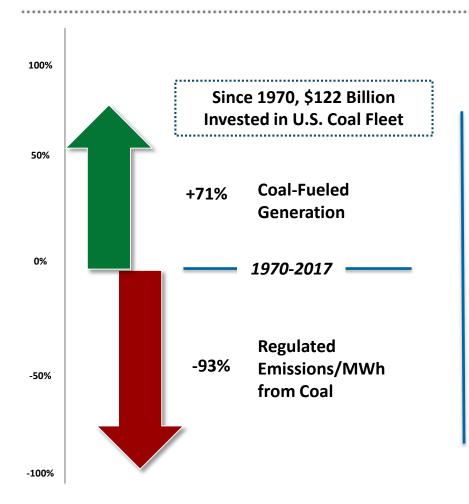
Global capacity is roughly 8x the size of the U.S. fleet

~300 GW of new coal-fueled generating plants currently under construction in Asia





## Improved Emissions from Advanced Coal Technologies Offer Path to the Future



- Nearly 1,000 GW of HELE plants in use or under construction; most being built in Asia
- HELE technologies result in smaller environmental footprint achieving as much as a 25% reduction in CO<sub>2</sub> emissions
- Raising efficiency of coalfueled plants to 40% reduces global emissions by 2 gigatonnes





### Path Forward is Focused on Technology

## Peabody Supports Advanced Coal Initiatives

- Consortium for Clean Coal Utilization
  - Founding member of research center at Washington University
- Coal21 Fund
  - Founding member of initiative in Australia
- National Carbon Capture Center



Technology-neutral carbon capture test center

### WORLD'S LARGEST CARBON CAPTURE PROJECT OF ITS KIND



Petra Nova Project near Houston, Texas / Joint Partnership NRG and JX Nippon Oil & Gas Exploration

- Captures CO<sub>2</sub> for enhanced oil recovery using post-combustion technology
- Received \$190 million U.S.
   Department of Energy grant
  - Capacity for 1.4 million metric tons CO<sub>2</sub> capture annually





# Public Policy Has Potential to Drive Technology Adoption

- 45Q Tax Credit for CCUS
  - \$35/metric ton CO<sub>2</sub> for beneficial use, including EOR
  - \$50/metric ton CO<sub>2</sub> saline aquifer storage
  - 12-year window
  - Construction prior to 2024
  - Transferable
- Other potential public policy options
  - 48A
  - USE IT
  - PAB, MLPs, etc.

