

Presented to the 2013 North Carolina Coal Institute
July 16, 2013
Myrtle Beach, South Carolina





Historical Overview

Coal has been mined in West Virginia since the mid-1800s.

- Construction of the C&O and N&W opened the state's coalfields to rapid growth around 1900.
- Despite producing well over 100 million tons almost every year since 1924, West Virginia still has an estimated 54 BILLION tons of recoverable reserves remaining.



It may be hard to believe today, but the scenic New River Gorge area was once a major coal-producing area of the state, clearly showing that mining has a temporary impact on the environment.





Background:

Coal has long been one of the state's leading industries.

- Thousands of good paying jobs
- Millions of payroll and tax dollars for local and state economies
- Low cost, dependable electricity

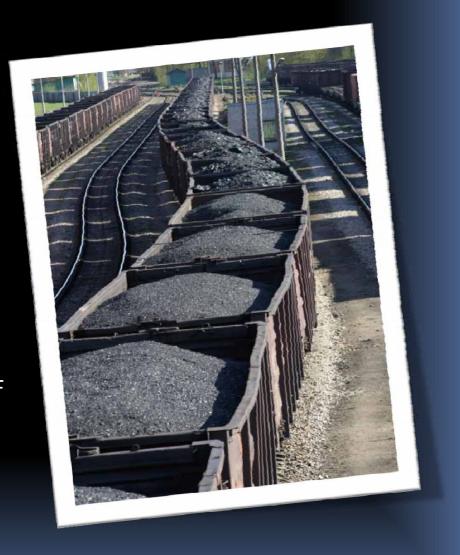






THE BASICS

- Second leading coal producing state
- Leading underground coal producing state
- Leading coal export state (@ 50 million tons)
- 70% of production shipped to 26 domestic states and 37 foreign countries.
- West Virginia coal powers 40% of the East Coast.







Top 15 West Virginia Foreign Exports of Coal 2011/2012

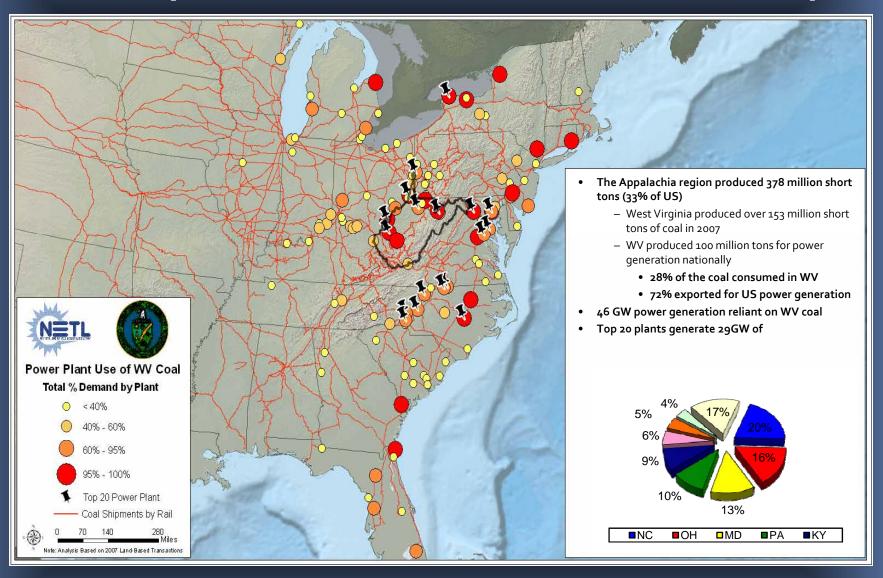
2012 Rank	Country	Exports in U.S. Dollars		% Change 2011
		2011	2012	to 2012
1	Netherlands	\$525,857,080	\$801,363,330	52.39%
2	Italy	\$581,295,247	\$697,805,582	20.04%
3	India	\$602,674,319	\$689,450,833	14.40%
4	China	\$93,418,770	\$ 567,685,012	507.68%
5	Brazil	\$546,916,319	\$ 558 , 017,763	2.03%
6	Korean Republic	\$266,901,592	\$520,296,435	94.94%
7	United Kingdom	\$287,517,238	\$456,904,185	58.91%
8	Turkey	\$276,079,423	\$403,039,403	45.99%
9	Japan	\$29,149,708	\$395,174,585	1255.67%
10	France	\$248,724,083	\$383,074,465	54.02%
11	Ukraine	\$499,430,818	\$358,450,642	-28.23%
12	Canada	\$201,896,245	\$272,030,245	34.74%
13	Germany	\$136,262,151	\$155,687,548	14.26%
14	Morocco	\$73,024,531	\$152,334,270	108.61%
15	Spain	\$52,280,137	\$151,692,138	190.15%

Data from Global Trade Information Services





US Dependence on WV Coal For Electricity









KEY FINDINGS

□ Payroll \$3.6 Billion

☐ Severance \$500 Million

☐ General Tax & Fe \$490 Million

☐ TOTAL JOB IMPACT 63,000 JOBS

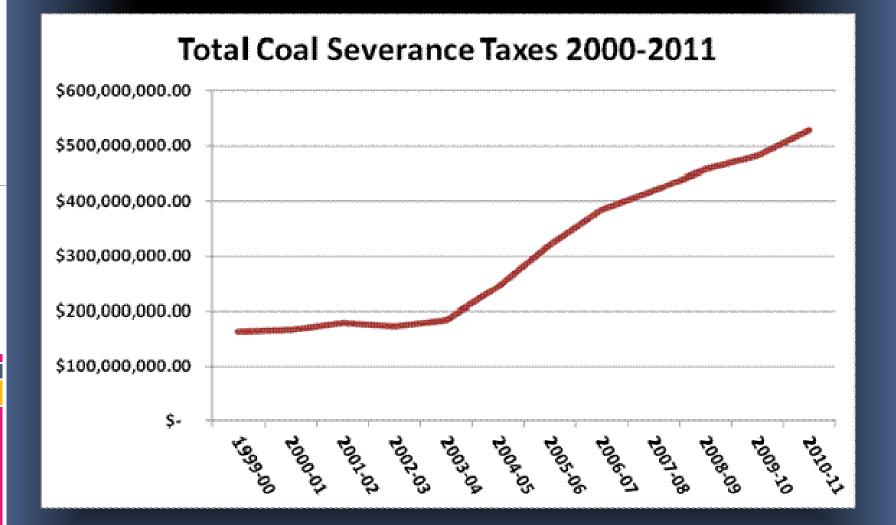
☐ TOTAL IMPACT \$26 BILLION

Note: Coal and electric utilities account for ^

60% of state business taxes

















Coal Severance:

Provides revenue for all 55 counties

First \$22 million dedicated to infrastructure projects

Primary uses: education, seniors, less fortunate

USES

Schools

☐ Roads

☐ Public Services

☐ Water/Sewer





The State of Coal 2012

Total Production (2012) 129,107,370 (2013 to date) 53,783,186
Underground 89,210,479
Surface 39,896,891

Coal Companies Operating in WV 231

Number of Mines 177
Underground 126
Surface 51

West Virginia Coal Employment 22,351 (UG+SU)

(2013 to date)19,261Underground16,868Surface5,483Coal Handling Facilities2,150Contractors2,100Total Coal Employment26,601

Estimated Average Annual Coal Wage \$68,500 Estimated Production Value 2012 \$7,746,422,200 Estimated Coal Severance Tax Paid @ \$500 Million







Today's Reality.....







THE PERFECT STORM

- Economic "uncertainty"
 - America and worldwide
- Mild winter
- Natural gas prices
- Federal government "Encourage, not discourage"
 - EPA
 - MSHA
 - OSM





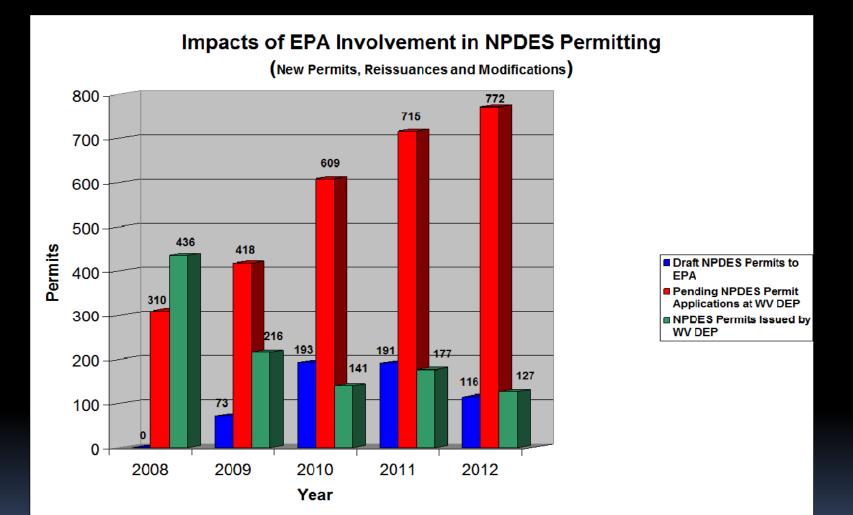
EPA Interference

- Formal objections to mine permits (404 and 402)
- Interagency MOU- Revise permitting and policy
- Enhanced Coordinated Review Process
 (Enhanced Permit Delay)
- Nearly All Permits Held Hostage
- Ecological Assessment
- Suspension of NWP 21
- Revocation of Spruce Fork Permit
- Targeting All Mining





Permitorium







EPA's Interference (Air)

CSAPR

4.8 GW

- \$2-3 billion annually
- SO2
- Nox
- HgMACT

10 GW

- \$10-11 billion annually
- PM?
- NAAQS
 - SO2, NOx, PM, CO, Ozone, Lead
 - Initial Cost = \$1.5 billion annually
 - \$19-25 billion annually by 2020.
 - SO2
 - Ozone
 - PM?

• GHG NSPS

- No New Coal Plants
- Requirements applied to existing plants per NSR
- Technology Does Not Exist
- COAL ASH
 - RCRA Hazardous Waste
 - \$1.5 billion annually
 - WV Amendment-Transportation

•TOTAL PROJECTED IMPACT

•\$22.5 billion - \$40.5 billion





OSM Interference

- More federal inspections
- Direct federal modifications to state issued permit
- OSM becomes the "co-regulator" of mining without regard to state primacy
- Direct reporting by mining companies to OSM
- Proposed regulations- Stream Buffer Zone and Approximate Original Contour, etc.





The National Agenda is "Out-of-Whack!"

- Global climate change
- Carbon Tax legislation
- Increasing renewable portfolio
- EPA's assault on coal
- War on mountaintop mining

The current agenda is regressive, punitive and will displace workers.



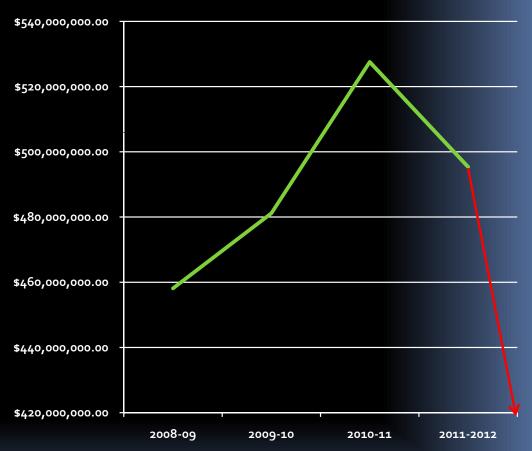




Today's Reality.....

- 25 % Lost Production (165m/tons in 2008 to 129m/tons in 2012).
- 3,000 Lost Jobs in West Virginia and 5,000 Lost Jobs in Region.
- Downward Trending Coal Prices and Mine Efficiencies
- Closure of Coal-Fired Power Plants
- Lost Revenues to Communities and States
- Lost Coal Severance Revenues

The War on Coal Takes Hold: Total Severance Collections 2008-2012



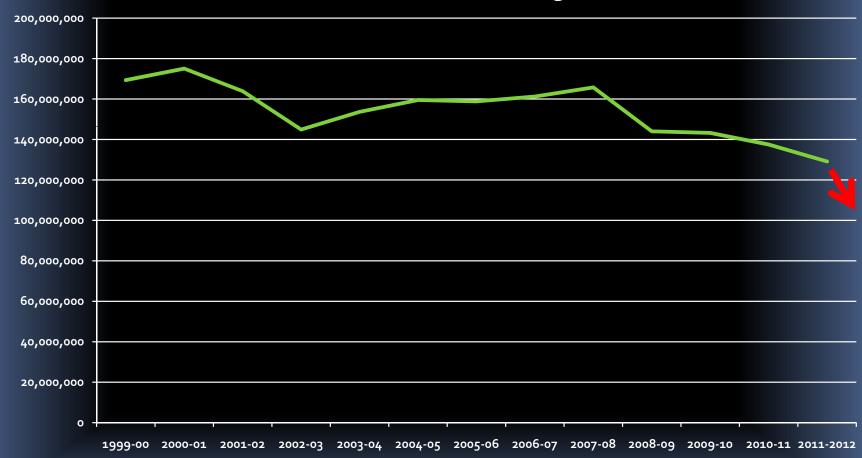




Trends: The Forecast Appears Bleak

West Virginia Coal Production

Annual Production Tonnage







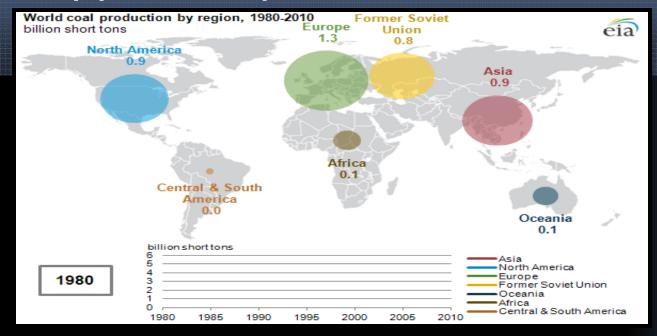
BUT.....







Trends: Opportunity Abounds



Increased Production in Asia, Europe and Australia, but

- China, India, Australia, Indonesia and other Pacific rim nations have abundant domestic coal but are growing at such a rate demand still outpaces capacity.
- European nations are turning to coal and Russia is increasing production but much of the European reserve base has been depleted.

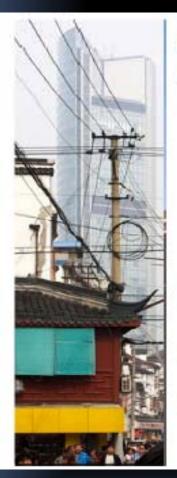
Growth of demand in Asia and Europe

- China, India and the Asian rim nations are expanding their economies.
- European nations are turning away from sustainable energy and nuclear projects back to coal.
- As economic recovery occurs, so will energy demand increase.





West Virginia Coal: Our natural advantage Energy Forecast



Coal continues to gain more of the world's energy share



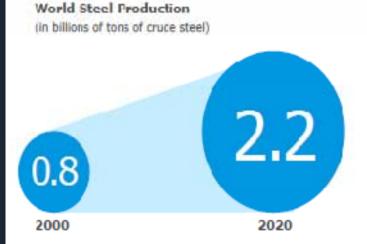


- Coal has been the largest and fastest-growing major fuel source for power generation in the world
- Coal is projected to supplant oil as the world's most prominent energy source by 2015
- By 2020, coal consumption should increase 2 billion tons if trends continue ... and could increase 4 billion tons if some forecasts prove true





We expect continued strength in met coal markets – based on projected growth in global steel consumption





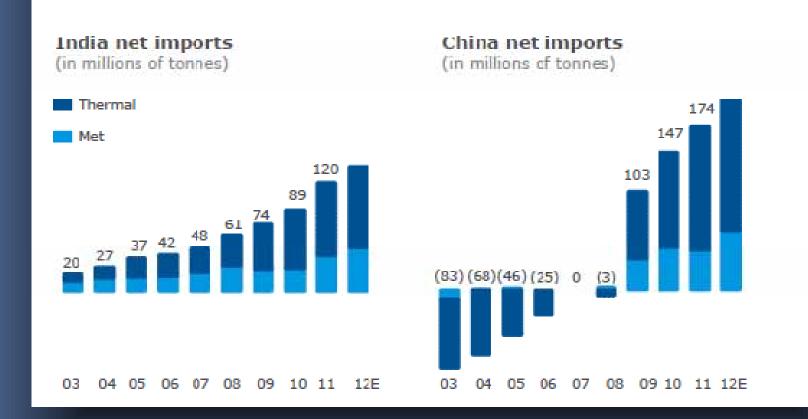


World steel consumption is projected to increase more than 50 percent from 2011 levels of 1.4 billion tons Demand for met coal is driven by increased utilization at existing steel plants and a build-out of new steel capacity





The trend line in seaborne coal demand is clear ... with little reason to believe it will change soon

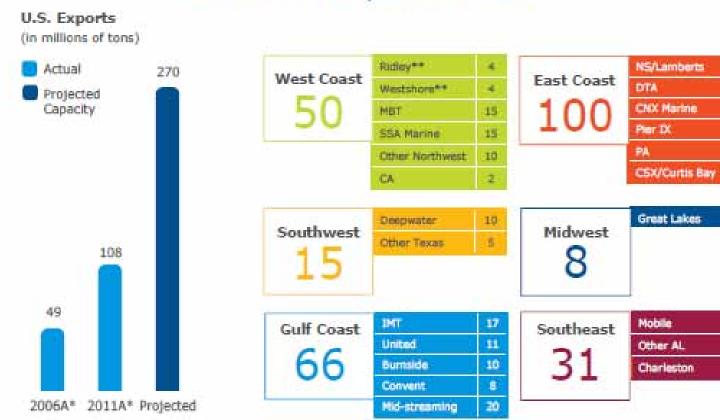








Planned U.S. port expansions will support a more than doubling of coal exports over the next five years or so







32

20

16

16

18

Energy Forecast

World energy needs and coal usage will increase.

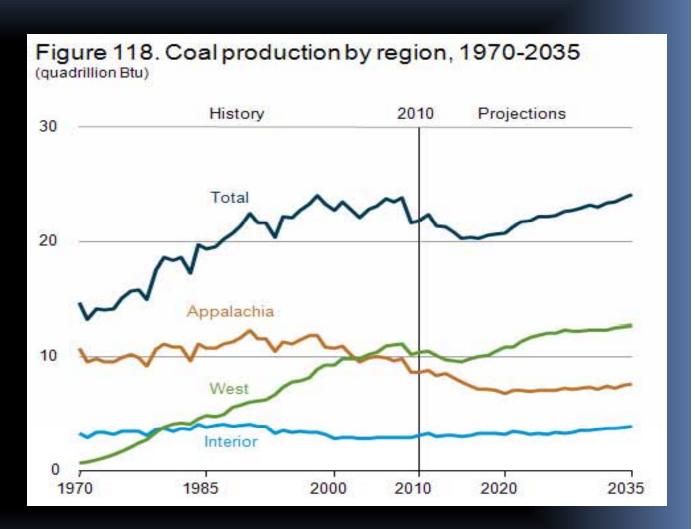
The real question is not whether coal will continue to be used but rather where will it come from?

- East of the Mississippi River
 - 40 percent of the nation's output
 - 8o percent of mining jobs
- Western Coal
- Illinois Basin
- Foreign Imports





Appalachia's share of the national coal market is projected to decline while the western region (Powder River) continues to climb.







Competitive Forces



A Powder River, Wyoming Coal Seam





By Comparison ...







Regional Challenges

- Increased Mining Cost:
 - Thinner, Deeper Seams
 - Higher Ratios
- Litigation
- Geological Challenges
- Manpower Needs







Poised for the Future:

The West Virginia coal industry is well-poised on high-growth opportunities as the country pursues energy independence and economic growth from a strong domestic energy industry

- The industry has great capacity
- Committed management teams in place
- Aggressive business plans
- Qualified, experienced workforce
- Strong will to succeed







National Agenda Should Be:

- National Security & Defense
- Energy Independence
- National Energy Policy
- Coal to Liquids Reality
- Mine Production & Combustion Technologies
- Natural Resources as Assets







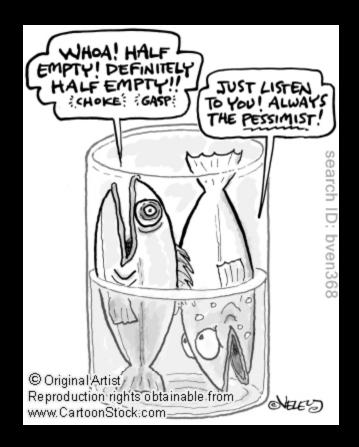
Summary

- West Virginia/Central App is Changing.
 - Mid- to long-term prospects are questionable
 - Production is down to @ 129 million tons but appears to have stabilized.
 - Export markets are particularly attractive (China, India, Asia).
 - World coal use is growing (Opportunities Abound).
- Coal Remains Vital to the Economy
 - Key for energy independence
 - Provides a transition fuel for the future
 - Abundant , Affordable and Reliable
- Coal Infrastructure Well Established (Production to Consumption)
 - Rail, river, truck, port facilities, industrial, electric power, end user and consumer.





BUT.....



Is the glass half-empty or half-full?









13,000 JOBS CREATED ON FORMER SURFACE MINE SITES IN WEST VIRGINIA

"With some areas of our state having little flat land for development, the use of surface mined lands has been critically important to providing land for new industry and facilities for use by the general public," said former Division of Energy Director Jeff Herholdt. "In addition to the flat land, many projects are able to take advantage of infrastructure, roads, and electric service used during coal mining."



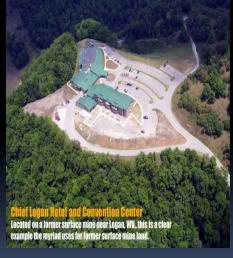


Opportunity---Alternate Post-Mining Land Use



- MINING creates level land, land that has the potential for many other uses. Properly planned -- mining can truly be "building a new West Virginia."
 - DEVELOPED SITES
 - West Virginia:
 - Joint Base West Virginia Tyler-Morgan, Fola, Logan
 - Bechtel Summit Boy Scout Complex Fayette
 - Mingo Central High School
 - King Coal Highway
 - Mingo County Regional Airport
 - Twisted Gun Golf Course
 - Hatfield-McCoy Trail System
 - The City of Weirton
 - Pete Dye golf course
 - Mount View High
 - Robert Byrd High School
 - Logan County Airport
 - Anker Sports Complex
 - Beckley YMCA Soccer Complex
 - FBI Complex
 - Mylan Park
 - Bright Mountain Subdivision









The Rest of the Story

Former surface mines can provide the flat land so essential to industrial and community development



Earl Ray Tomblin Hotel and Convention Center

Located on a former surface mine near Logan, WV., this is a clear example the myriad uses for former surface mine land.





Mingo Central Comprehensive High School is a consolidated high school which resulted from Burch, Gilbert, Matewan and Williamson High Schools. Mingo Central opened it's doors to new students in August 2011. Mingo Central is a Comprehensive 9-12 high school on a beautiful 90 acre site along the King Coal Highway overlooking the mountains of Mingo County. It is a 172,535 square foot school containing approximately 60 classrooms.







The Rest of the Story

Mylan Park in Morgantown is built on a former surface mine site.







Mingo County Mountaintop
Post-Mine Land Use Projects





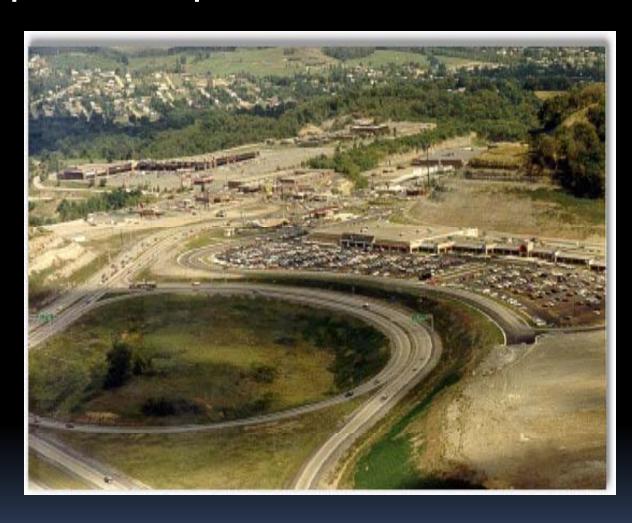






The Rest of the Story

A shopping mall in Bridgeport shows the wide range of development made possible across the state by the cooperation of mining and local planners.







We Can Have Both!

West Virginia demonstrates every day that we can have a thriving industrial base and robust tourism while protecting our natural environment.







Oh, I almost forgot Obama's "Climate Change Initiative"





