Challenges for Illinois Basin Coal

The Coal Institute 2016 Spring Meeting

April 13-14, 2016
Ballantyne Resort
10000 Ballantyne Commons Parkway
Charlotte, NC 28277

John T. Hanou

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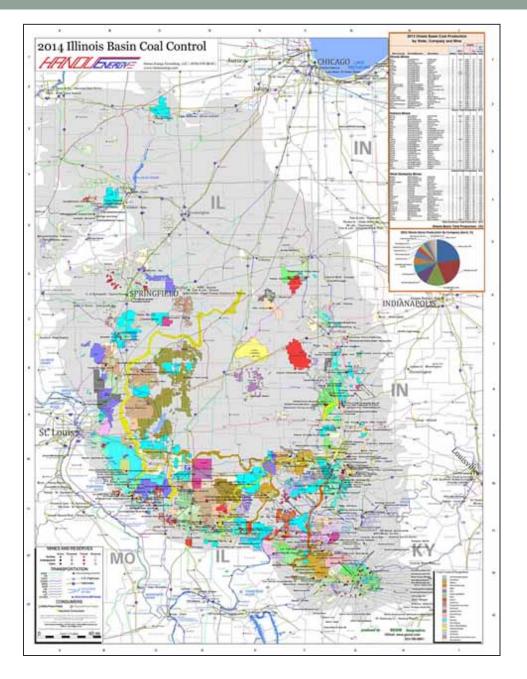
The following presentation has been derived from Hanou Energy's:

- Illinois Basin Coal Supply, Demand & Price Trends 2016-2035
- Powder River Basin Coal Supply, Demand & Price Trends 2016-2035
- Original research

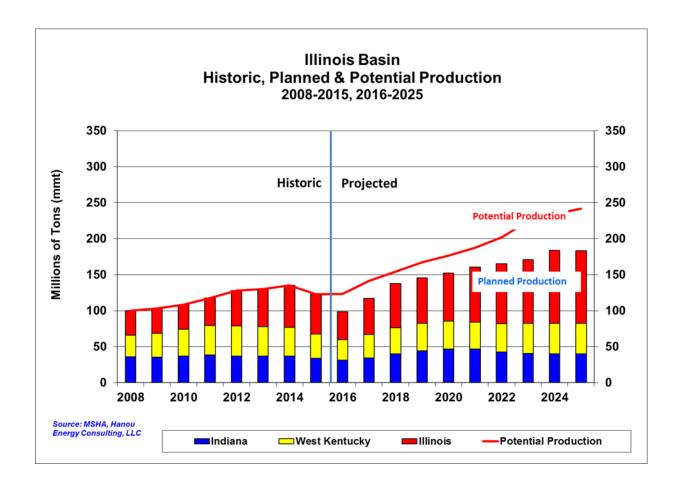
Inquire for details



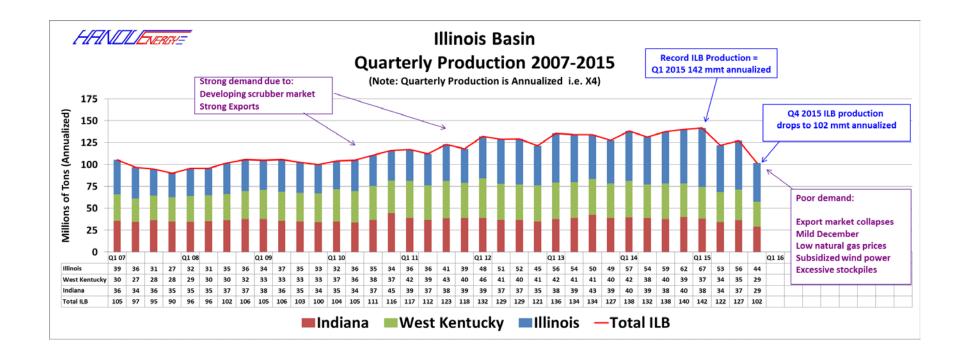
Illinois Basin Coal Control



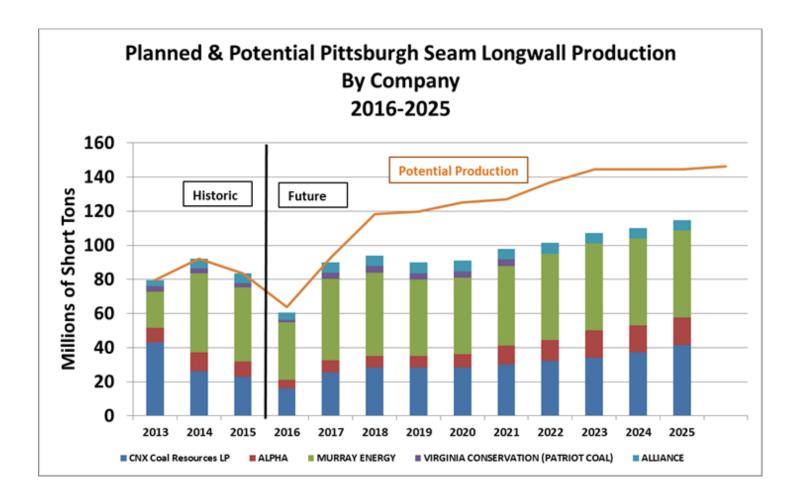




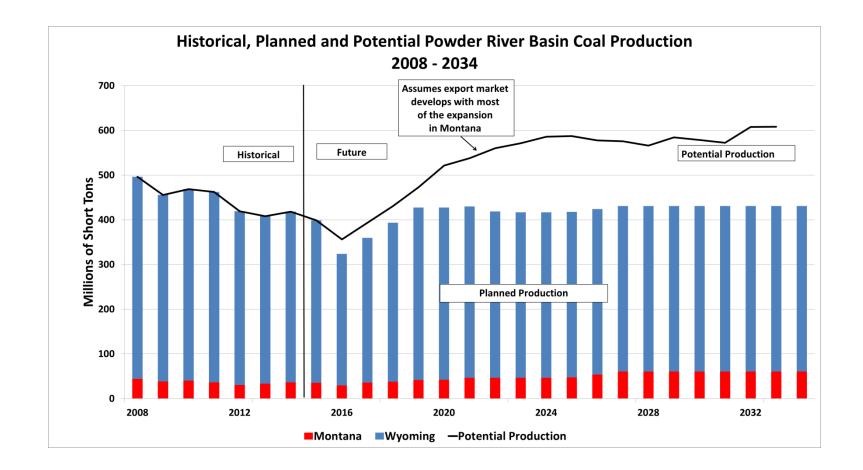




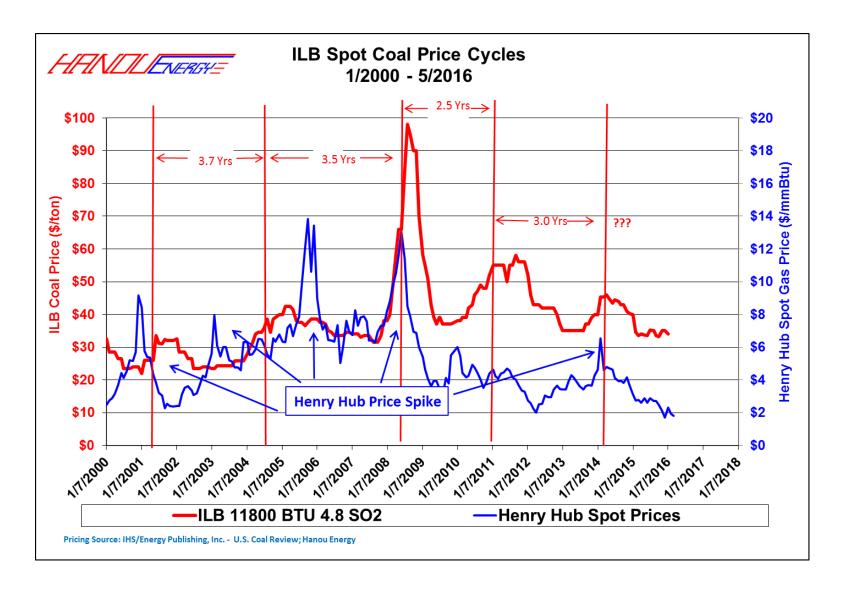








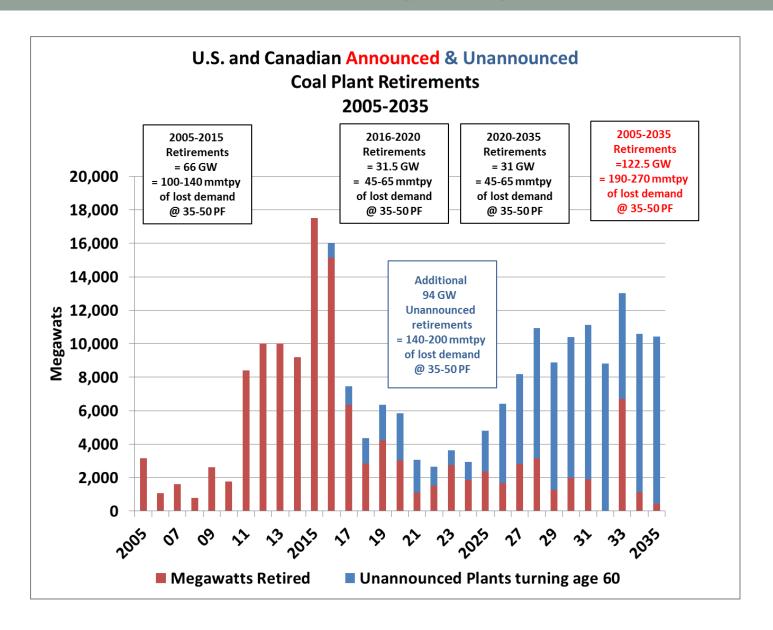




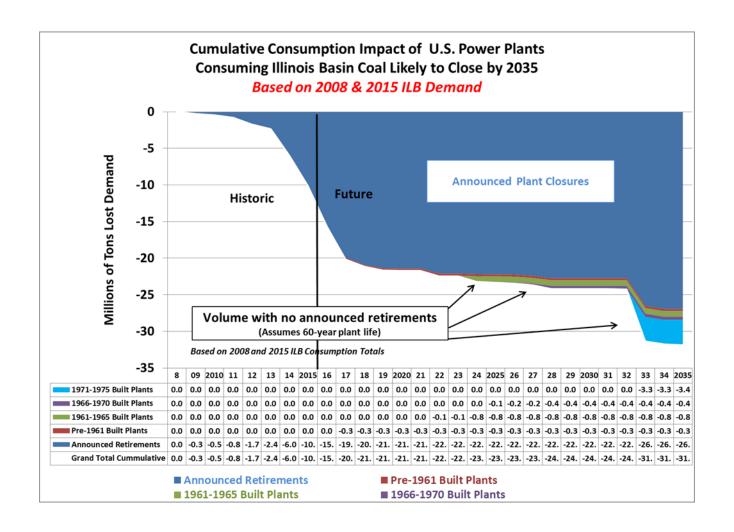


Utility Stocks for Electricity Generation (millions of tons)							
Month/Year	Bituminous Coal	Sub- Bituminous Coal	Lignite Coal	Total			
11/5/13 12/3/13 1/7/14	74.9 73.0 62.2	75.6 70.0 64.8	5.3 5.0 5.3	155.8 148.0 132.3			
2/4/14	54.7	58.9	5.4	118.9			
3/6/14	54.2	58.4	5.4	118.0			
4/3/14 5/1/14 6/5/14 7/3/14 8/7/14 9/4/14 10/2/14 11/6/14 12/4/14	59.5 62.9 61.9 59.5 59.4 62.2 68.2 69.7 72.6	62.6 67.0 64.6 59.7 55.2 55.9 61.9 66.5	6.2 6.3 6.4 6.2 6.4 6.1 6.1 5.6	128.3 136.2 132.9 125.4 121.0 124.2 136.2 141.7 151.4			
1/8/15 2/5/15 3/5/15 4/2/15 5/7/15 6/4/15	70.4 64.7 65.7 71.2 75.1 73.9	79.2 80.3 84.8 91.7 94.3 89.1	5.6 5.3 5.0 5.3 5.2 4.8	155.1 150.3 155.6 168.2 174.6 167.8			
7/2/15 8/3/15 9/3/15 10/1/15 11/5/15	69.3 68.9 70.4 76.2 80.1	86.1 84.5 87.4 95.0 103.7	4.8 4.6 4.6 4.6 4.7	160.2 158.1 162.4 175.8 188.5			
12/3/15 1/7/16 Source: EIA	82.8 78.0	109.4 106.4	5.0 4.7	197.1 189.1			





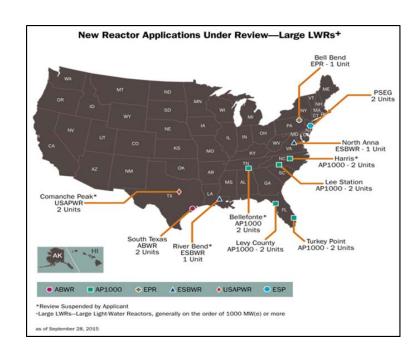






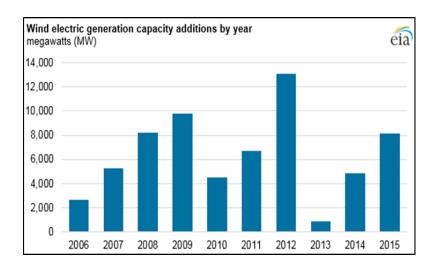
Nuclear Power

Nuclear Units Under Construction in U.S.							
		Capacity (MWe)	Construction	Expected			
Name	Туре	net / gross	Start Date	completion			
Vogtle 3 (Georgia)	AP1000	1,117 / 1,250	3/15/2013	6/1/2019			
Vogtle 4	AP1000	1,117 / 1,250	11/22/2013	2020			
V.C. Summer 2 (South Carolina)	AP1000	1,117 / 1,250	3/9/2013	6/1/2019			
V.C. Summer 3	AP1000	1,117 / 1,250	11/2/2013	6/1/2020			
Watts Bar 2 (Tennessee)	PWR	1,150 / 1,237	1973	9/30/2016			
Total capacity		5,618 / 6,237					
Equivalent tons of coal @ 80%PF		17-19 mmtpy		I.			





Wind Power



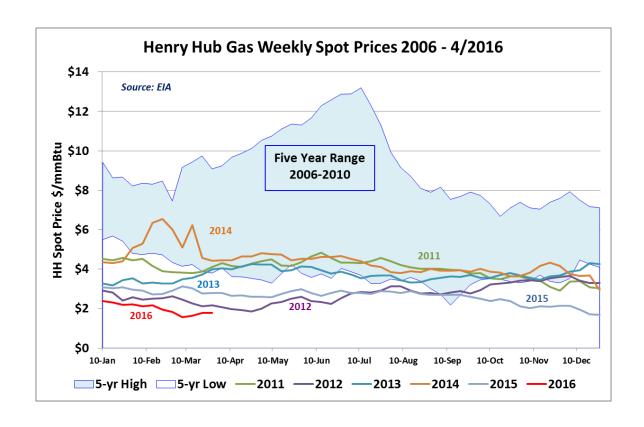
MISO System



Source: EIA



Natural Gas

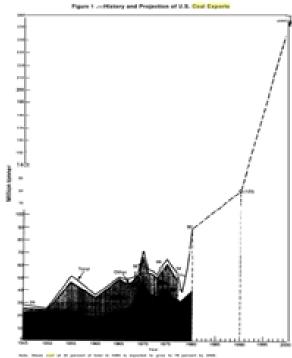




Exports

What was the **US Office of Technology Assessments** projecting in 1978?

- US exports to grow
 - from 40 mmt in 1978
 - To 90 mmt in 1980
 - to 120 mmt in 1990
 - to 255 mmt in 2000
- Is history repeating itself?
 - -1981 = 113 mmt =record

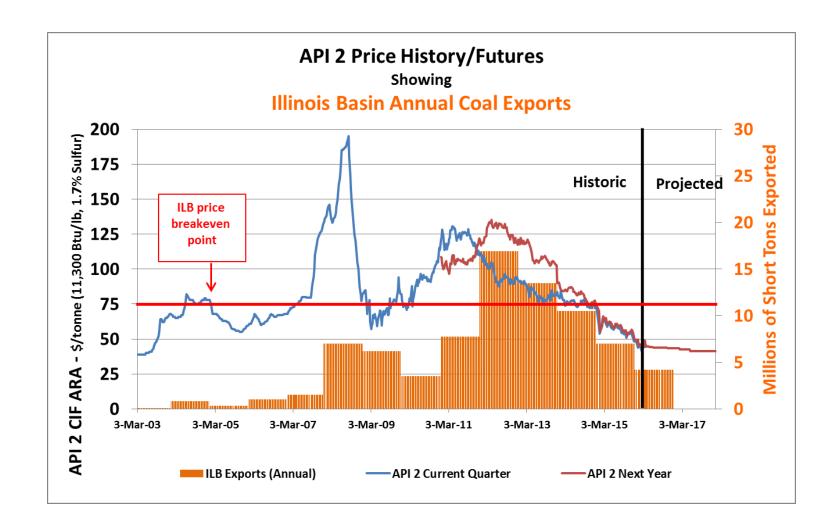






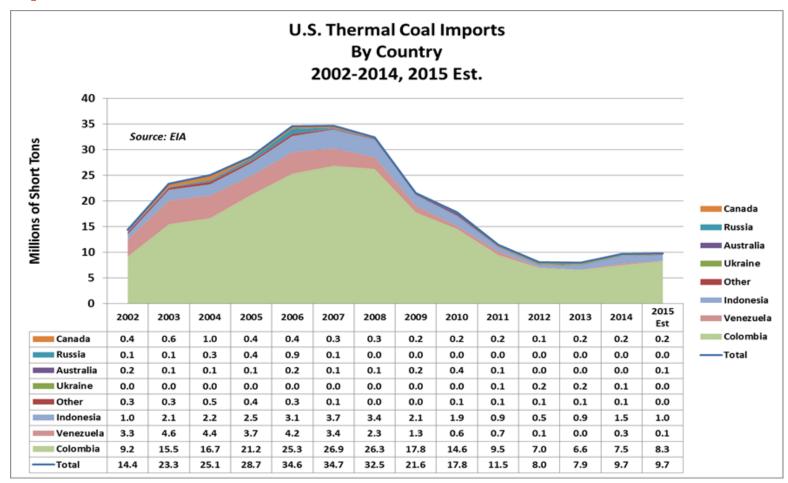
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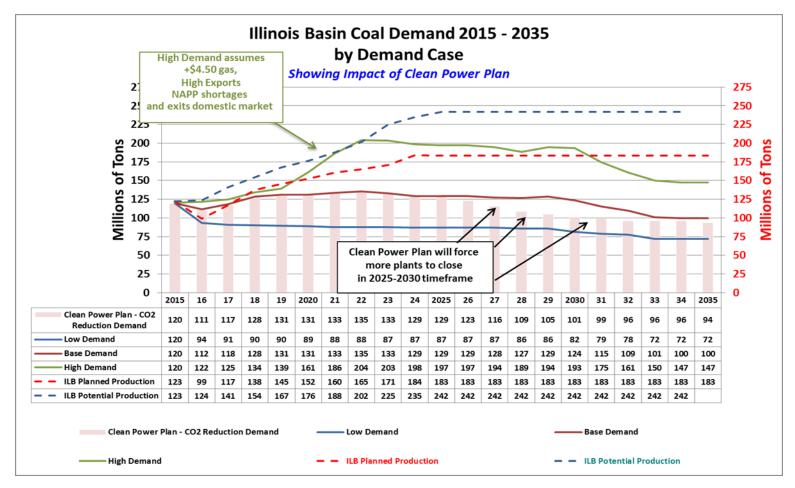


Imports





Illinois Basin Demand Forecast





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The future belongs to the low cost producer!

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