Surface Transportation Board – Rail Energy Transportation Advisory Committee Meeting

Performance Measures Subcommittee Update

September 20, 2016
Using EIA, AAR and individual railroad data sources, a data table is assimilated, and from it……

**Six coal-related dashboards, organized as follows:**

1. Coal Production, Consumption, and Inventories Dashboard
2. Net Generation by Fuel Type Dashboard
3. Coal Exports Dashboard
4. Western Rail Coal Carloads Dashboard
5. Eastern Rail Coal Carloads Dashboard
6. Canadian Rail Coal Carloads Dashboard
7. Railroad Coal Train Speed Dashboard

Most dashboards have three sections:

a. Left - historical and forecasted data (no forecasts of rail metrics)
b. Middle - comparison for the most recent quarter (Q1 or Q2 as noted)
c. Right - current YTD comparison versus the 5-year range
Performance Summary

**Coal Production** (2016 vs 2015)
- **Appalachia:** Decreased 35.9 million tons (-31%)
- **Interior:** Decreased 19.5 million tons (-23%)
- **Western:** Decreased 70.6 million tons (-28%)
- **Total Production:** Decreased 126 million tons (-28%)

**Coal Consumption** (2016 vs 2015)
- **Electricity/Power:** Decreased 71.1 million tons (-19%)
- **Retail/Other:** Decreased 0.3 million tons (-1%)
- **Met/Coke:** Decreased 2 million tons (-20%)
- **Total Consumption:** Decreased 73.2 million tons (-18%)

**Coal Exports** (2016 vs 2015)
- **Met Coal:** Decreased 5.9 million net tons (-23%)
- **Steam Coal:** Decreased 7.3 million tons (-47%)
- **Total Exports:** Decreased 13.4 million tons (-32%)

**Coal Inventories**

### Coal Production MM Tons

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**Coal Consumption MM Tons**

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Performance Summary

**Railroad Carloads** (2016 estimate versus 2015)

- Burlington (BNSF): Decreased 384,364 carloads (-34%)
- Union Pacific: Decreased 182,939 carloads (-29%)
- Kansas City Southern: Decreased 9,011 carloads (-14%)
- Norfolk Southern: Decreased 96,099 carloads (-24%)
- CSX Transportation: Decreased 119,763 carloads (-31%)
- Canadian National: Decreased 25,338 carloads (-29%)
- Canadian Pacific: Decreased 2,685 carloads (-2%)
- **Total Carloads**: Decreased 820,199 carloads (-29%)
NET GENERATION BY FUEL TYPE DASHBOARD

Historical Net Generation by Fuel Type

- Hydroelectric
- Coal
- Natural Gas
- Nuclear
- Renewables

Forecast

Source Data: EIA
WESTERN RAILROAD COAL CARLOADS DASHBOARD

BNSF Historical Originations

BNSF Q2 Originations Comparison

2015 BNSF Originations vs 5-Year Range

UP Historical Originations

UP Q2 Originations Comparison

2015 UP Originations vs 5-Year Range

KCS Historical Receipts

KCS Q2 Receipts Comparison

2015 KCS Receipts vs 5-Year Range

Source Data: AAR, BNSF, UP, KCS
Source Data: AAR, BNSF, UP, KCS, NS, CSX, CN, CP