Presented to the
Rail Energy Transportation Advisory Committee
May 15, 2019
Safe and Getting Safer

Lower Accident & Injury Rates

Train Accidents**
2000-2018: ↓ 37%

RR Employee Injuries*
2000-2018: ↓ 49%

RRs Are Safer Than Most Other Industries
(injuries per 200,000 employee-hours)

Data are for 2017. Source: Bureau of Labor Statistics

*Per 100 employee equivalents. **Per million train-miles. 2018 is preliminary. Source: FRA
## Coal’s Share of Electricity Generation Down Sharply

### % Share U.S. Electricity Generation

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal</td>
<td>52%</td>
<td>50%</td>
<td>45%</td>
<td>33%</td>
<td>27%</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>16%</td>
<td>19%</td>
<td>24%</td>
<td>33%</td>
<td>35%</td>
</tr>
<tr>
<td>Nuclear</td>
<td>20%</td>
<td>19%</td>
<td>20%</td>
<td>20%</td>
<td>19%</td>
</tr>
<tr>
<td>Renewables</td>
<td>2%</td>
<td>2%</td>
<td>4%</td>
<td>7%</td>
<td>10%</td>
</tr>
<tr>
<td>Hydro</td>
<td>7%</td>
<td>7%</td>
<td>6%</td>
<td>6%</td>
<td>7%</td>
</tr>
<tr>
<td>Other</td>
<td>3%</td>
<td>4%</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
</tr>
</tbody>
</table>
Sharp Decline in Rail Coal Carloads

Data are originations for Class I railroads. Source: AAR *Freight Commodity Statistics*
U.S. Rail Revenue From Coal

($ billions)

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenue ($ billions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>'09</td>
<td>$12.1</td>
</tr>
<tr>
<td>'10</td>
<td>$14.0</td>
</tr>
<tr>
<td>'11</td>
<td>$16.4</td>
</tr>
<tr>
<td>'12</td>
<td>$14.9</td>
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<tr>
<td>'13</td>
<td>$14.3</td>
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<tr>
<td>'14</td>
<td>$14.3</td>
</tr>
<tr>
<td>'15</td>
<td>$12.1</td>
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<tr>
<td>'16</td>
<td>$9.1</td>
</tr>
<tr>
<td>'17</td>
<td>$10.3</td>
</tr>
<tr>
<td>'18</td>
<td>$10.7</td>
</tr>
</tbody>
</table>

Data are for Class I railroads. Source: AAR Freight Commodity Statistics
Coal as % of U.S. Class I Railroad Revenue

Source: AAR Freight Commodity Statistics
U.S. Rail Carloads of Crude Oil by Quarter

Quarterly figures may not add precisely to totals. Data are for Class I railroads only. Source: AAR Freight Commodity Statistics
U.S. Rail Carloads of Industrial Sand by Quarter

Quarterly figures may not add precisely to totals. Data are for Class I railroads only. Source: AAR Freight Commodity Statistics
U.S. Carloads of Ethanol

Source: STB Waybill Sample
Record Spending on Infrastructure & Equipment*

*Capital spending + maintenance expenses. Data are for Class I RRs. Source: AAR
Railroad Spending on Infrastructure and Equipment

Data are for Class I railroads. Source: AAR

($ billions, current dollars)
U.S. Rail Carloads of Coal vs. Electricity From Coal

*Generation from coal (left scale)*
**Coal carloads (right scale)**

*3-month moving average, million megawatthours.
**3-month moving average based on weekly originations. Source: EIA, AAR
Record Recent Spending on Infrastructure & Equipment

Data are for Class I railroads. Source: AAR
Average Train Speed: May 2018 - April 2019
(miles per hour, system-wide, 4-week average)

Source: STB
Average Train Speed: May 2018 - April 2019
(miles per hour, system-wide, 4-week average)

May '18  April '19

Source: STB
Terminal Dwell Time: May 2018 - April 2019
(hours, system-wide, 4-week average)

Source: STB
Terminal Dwell Time: May 2018 - April 2019
(hours, system-wide, 4-week average)

Source: STB