CHALLENGES OF COAL TRANSPORT-WAY AHEAD

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DR. ARJA SRIKANTH
EXECUTIVE DIRECTOR
NTPC
Coal Vs Power Demand...

- Last 5 Years India Added 58GW And Add 90GW More In Next 5 Years.
- Last 5 Years Coal India Added 100MTPA And Next 5 Years It Can Add Same Max.
- By Next 5 Years To Reach 200GW, Requirement Would Be 1bt.
- But The Gap Between Domestic Demand And Production Would Be Less By A Quarter.
Production And Consumption Centers.
COAL PRODUCTION ISSUES

- Exploration
- Eastern Sector
- Seasonal Production
- Captive coal Blocks-PPP
- Social Interferences
- Land Acquisition
- Underground Mining
Coal Quality At Mine And Power Plant
Rail Complexities & Over Crowding
Cumberson Mixed Operations
Saturated Routes
Chicken Necks Of Transport
Poor Port Connectivity
More Social Interferences
Complexities Of Investment Planning
24/7/365 Complex Operations
More Interdependencies
SEASONAL HAVOC...
## Indian road network

<table>
<thead>
<tr>
<th>Type of roads</th>
<th>Length (km)</th>
<th>Length (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expressway</td>
<td>200</td>
<td>0.01</td>
</tr>
<tr>
<td>National highways</td>
<td>70,934</td>
<td>2.1</td>
</tr>
<tr>
<td>State highways</td>
<td>1,31,899</td>
<td>3.9</td>
</tr>
<tr>
<td>Major district roads</td>
<td>4,67,763</td>
<td>14.1</td>
</tr>
<tr>
<td>Rural and other roads</td>
<td>26,50,000</td>
<td>79.8</td>
</tr>
<tr>
<td>Total</td>
<td>33,20,796</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Source: NHAI, PINC Research
PORTS AND CONNECTIVITY
INLAND WATER WAYS ....

- Proposed waterway
- River distance:
  - Haldia (Sagar) - Farakka: 580 km
  - Farakka - Patna: 480 km
  - Patna - Allahabad: 600 km
  - Total length: 1620 km
CONSUMPTION END-ISSUES
Mis-Match At Unloading Points
- Dilution Of Pit Head Concept
- TH & WT Suited For MGR Movements
- Old Conveyor Systems, Poor Evacuation
- Additional Burden Of Boulder, Stone, Ash Management
- Bunching Constraints.
- Skilled Team
- Competition For Resources
Way Forward....

- Alternate Routs-sea Cum-rail
- Best Use Of Rail Infrastructure
- Seasoned Domestic And Import Supplies
- Mine Head Road Movements RCR
- Expediting Captive Coal Blocks
- Production Centers And Evacuation Measures To Go Hand In Hand.
- Port Connectivity And Least Cost Port-plant Movements To Be Encouraged.
Road Cum Rail
Coal Transport A Necessary Evil - Handle With Care...

- Transport Of Coal Better Or Power?
- Transport Of Quantity Or Quality?
- Pit Heads Or Far Off TPS?
- FSA Or GCV?

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- What Ever May Be Coal Is A Necessary Evil
- Equal Importance To Coal, Its Transport And Handling Like Boiler And Turbine
- One Path Lost=3700T Coal Lost Permantly
And Finally...

- Climate Change Is A Greater Threat To Humanity Than Terrorism,
- And No Less Urgent.
Thank You for Attention