

COAL FLOW BALANCING USING VARIABLE AREA ROPE BREAKERS

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GREENBANK ENERGY SOLUTIONS INC.

COAL FLOW BALANCING

The Variable Area Rope Breaker (VARB) Design Parameters:

1. Obtain Customer's Pulverized Fuel (Pf) Distribution Data
2. Create a Computational Fluid Dynamics (CFD) Model
3. Simulate Existing Fuel Distribution
4. Predict Position of Pf 'Rope'
5. Insert VARB Design into CFD Model
6. Optimize VARB Design and Position
7. Verify Position of Rope by Survey
8. Install VARB, Control Gate and Optimize



Key Benefits of GESI VARBS

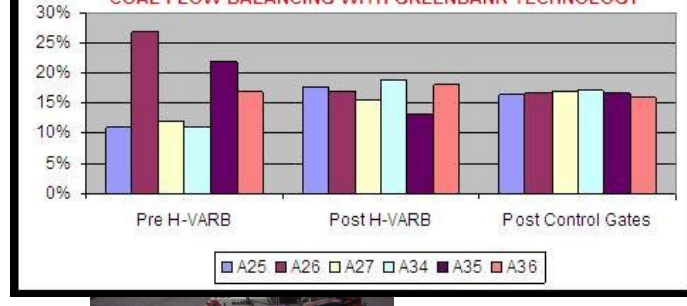
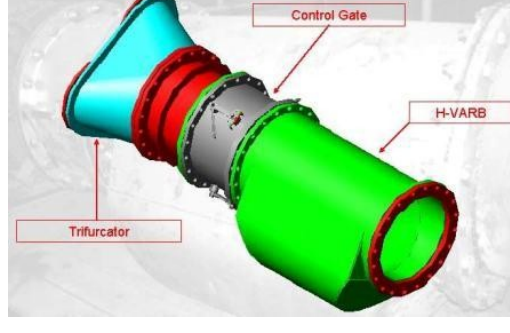
1. Reduction in L.O.I. (Loss of Ignition)
2. Reduction in C.I.A. (Carbon in Ash)
3. Balanced PF (Pulverized Fuel) flow
4. Controlled PF (Pulverized Fuel) distribution
5. Minimal pressure drop
6. Increased efficiency and **fuel savings**
7. Reduced emissions (NOx Reductions)
8. Prolonged life of the coal transport pipe work
9. Available for 2-way, 3-way and 4-way splits
10. Control Gates offer flow flexibility and easy monitoring

Click here for more information

• [VARB Background information](#)

• [VARB Details](#)

H-VARB/Control gate design



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