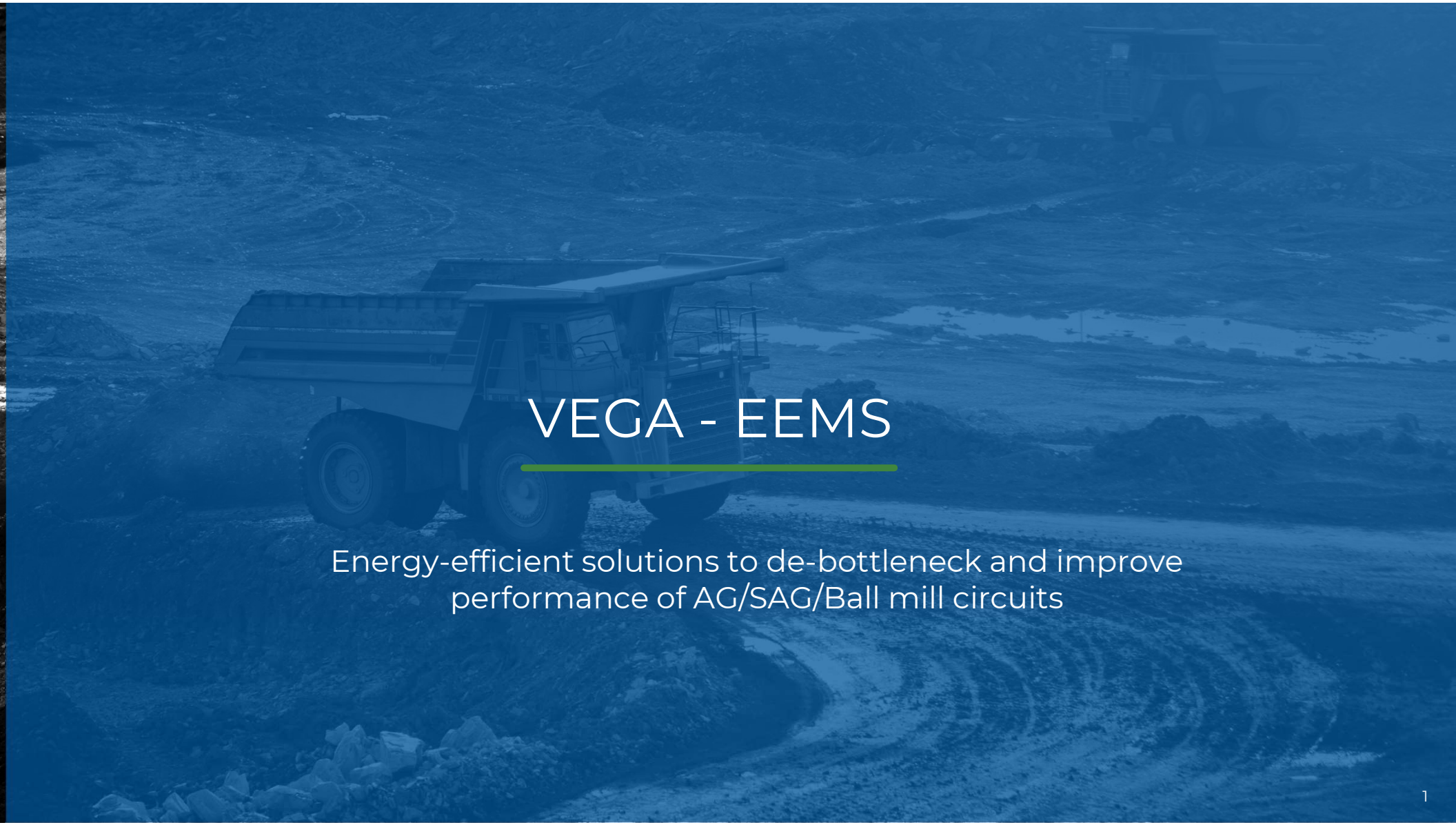


VEGA - EEMS

Energy-efficient solutions to de-bottleneck and improve performance of AG/SAG/Ball mill circuits

EEMS

An alliance that adds value to our offerings

Dr. Sanjeeva Latchireddi

Dr. Sanjeeva Latchireddi is a successful **metallurgist** with over 20 years of expertise in providing energy-efficient solutions to de-bottleneck and improve performance of AG/SAG/Ball mill circuits to the mining industry. Currently, he heads EE-Mill Solutions LLC, USA., EEML Technical Centre, as the Executive Director and brings the following expertise on board.

1

Proficiency in improving the design of mill internals (AG, SAG and BALL mills) using patented and industrially proven systems.

2

Research in the design of Energy Efficient Pulp Lifters leading to improvement in grinding efficiency at the beneficiation plants.

3

Abled supervision and guidance that has added immense value in the installation and commissioning of the first-generation Pulp Lifter at few of our mining sites.

VEGA - EEMS Core

EXPERTISE

- Simulations of Grinding Circuit.
- The innovative and unique EEPL (Energy Efficient Pulp Lifter) liner design through a Holistic approach of Mill Study.

SERVICES

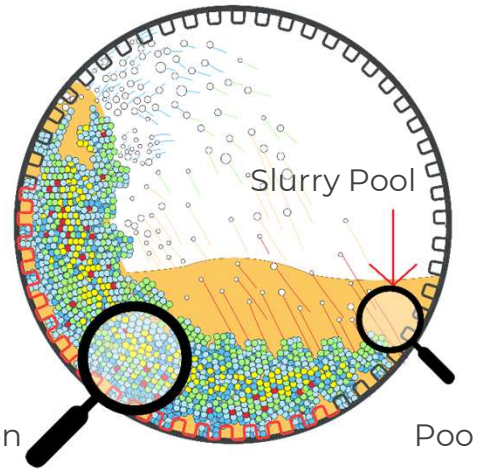
- Plant Surveys – Ore testing – Mill Simulations – mill scanning -
- Complete mill designing capabilities along with the patented EEPL
- Definition of optimum size Grinding Media for an optimum plant performance.
- Deliver training to plant Engineers

EEMS

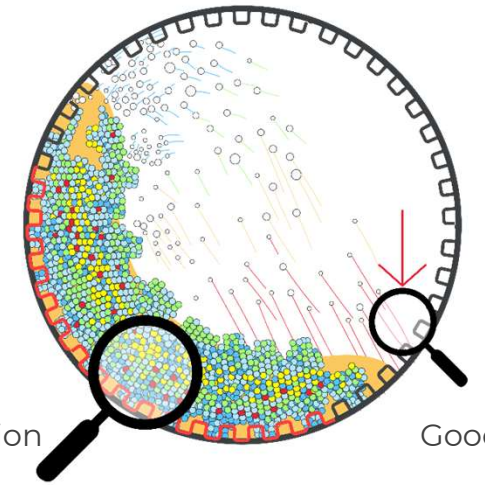
EEPL Ensures Efficient Grinding Condition

Inefficient Grinding → **Efficient Grinding**

Ensures Efficient Grinding conditions inside the mill !



Poor Attrition — Poor Impact



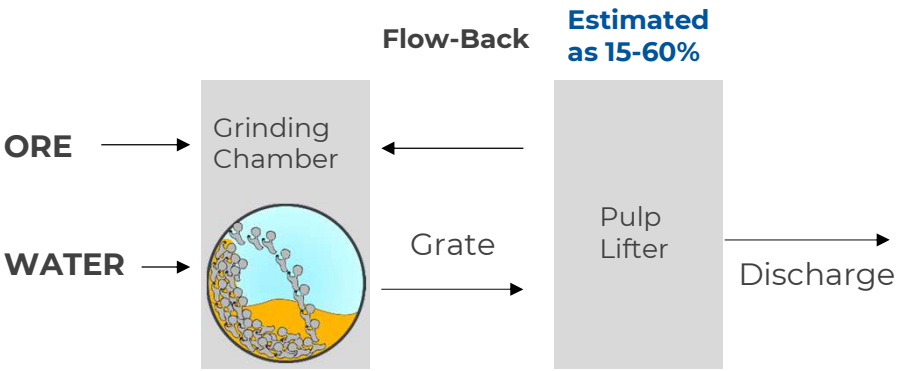
Good Attrition — Good Impact

Also helps in keeping a good rock to ball ratio

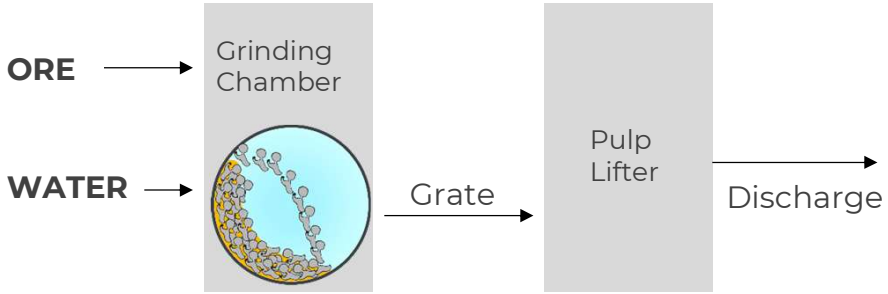
EEMS

Improved material transport after EEPL

Inefficient Grinding (with Radial/Curved/Spiral) → **Efficient Grinding** (with EEPL™)



Flow Through Grate



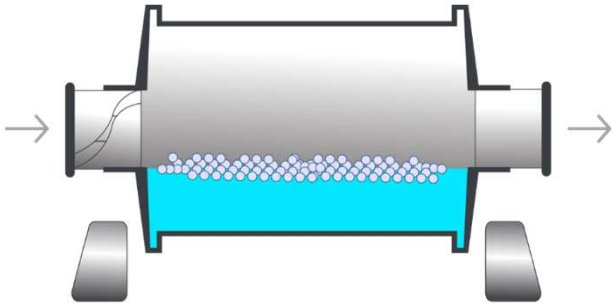
Flow Through Grate

EEMS

Advantages of conversion of overflow to grate discharge mills

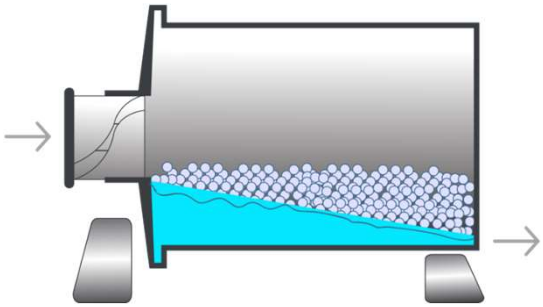
Material Transport

Overflow Mills



- Large slurry buildup
- Flow over discharge trunion
- Lower hydraulic gradient across feed and discharge ends

Grate Discharge Mills



- Low slurry pool
- Flow is through grate
- Higher hydraulic gradient across feed and discharge ends

VEGA - EEMS

Proven benefits

De-bottleneck AG/SAG/Ball mill circuits

Improve Productivity - Achieve >10% increase in throughput

Reduce Energy Consumption (kWh/t) by >15%

Generate Steeper PSD Transfer Size (T80) to improve classification Efficiency

Improved Wear Life of AG/SAG mill liners

Lower Circulating Loads in Ball mill circuits