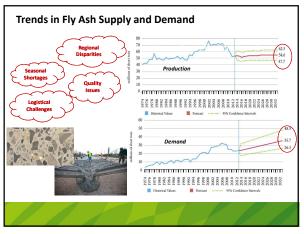
MINNESOTA CONCRETE COUNCIL June 2020



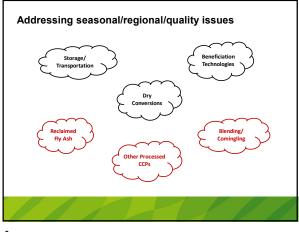
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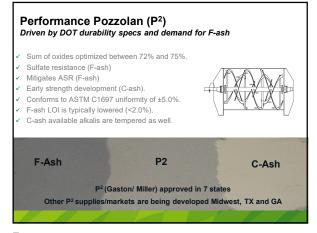




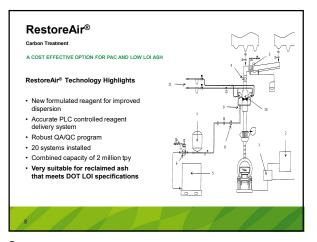
Deploying Technologies

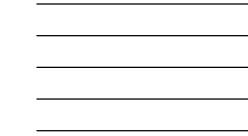
- **Current Focus** .
 - Mitigating sorbent injection impact on ash quality
 - Blended and alternative pozzolan products
 - Beneficiation of ponded / landfilled ash
- Commercialized Technologies P2[®] - Performance Pozzolan (blended ash product)
- ASM[®] (ammonia slip mitigation)
- RestoreAir®/PACT®(passivation of carbon in ash)
- SorbSensor[®] (Instrumentation for ash quality)
- CBO (Carbon Burnout)



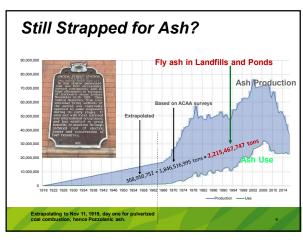




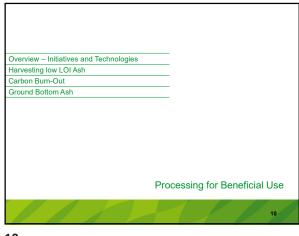




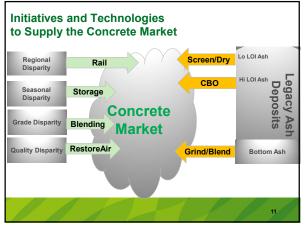






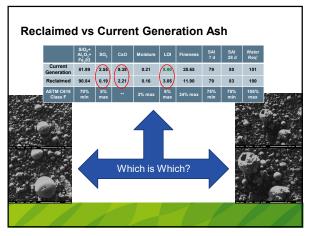


















Carbon Burn Out (CBO)

Recently acquired technology to beneficiate high carbon ash

- Developed by Progress Energy with support from EPRI and other utility partners.
- The technology was spun off through PMI to deploy at other utilities.
- Boral acquired all patents and know-how related to the CBO from PMI.
- 4 CBO plants were built at powerplant sites with a combined operating history of more than 40 years processing more than 7 mm tons of ash.
- Improvements and other design features have been developed to allow its operation without power plant support to reclaim ash <u>from landfills and</u> <u>ponds.</u>

