

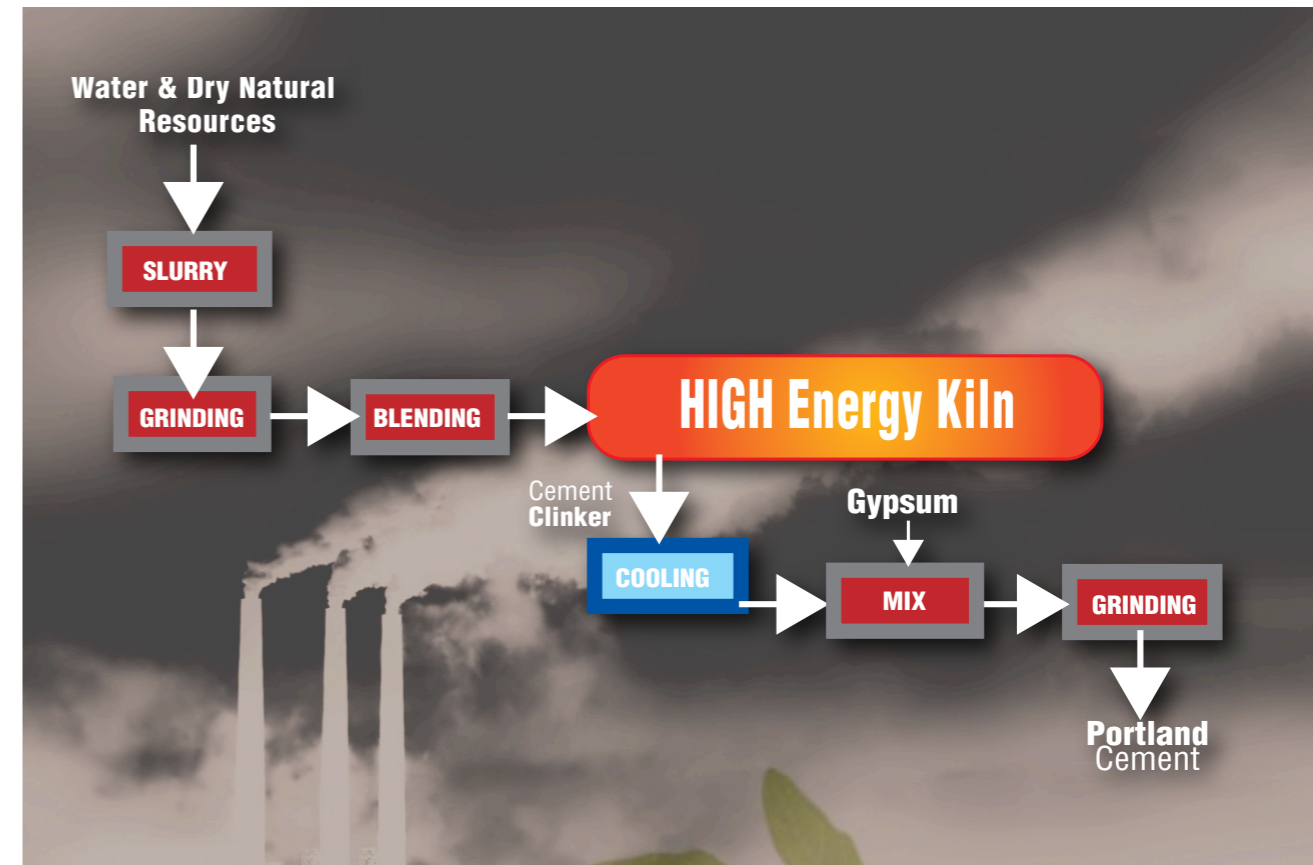
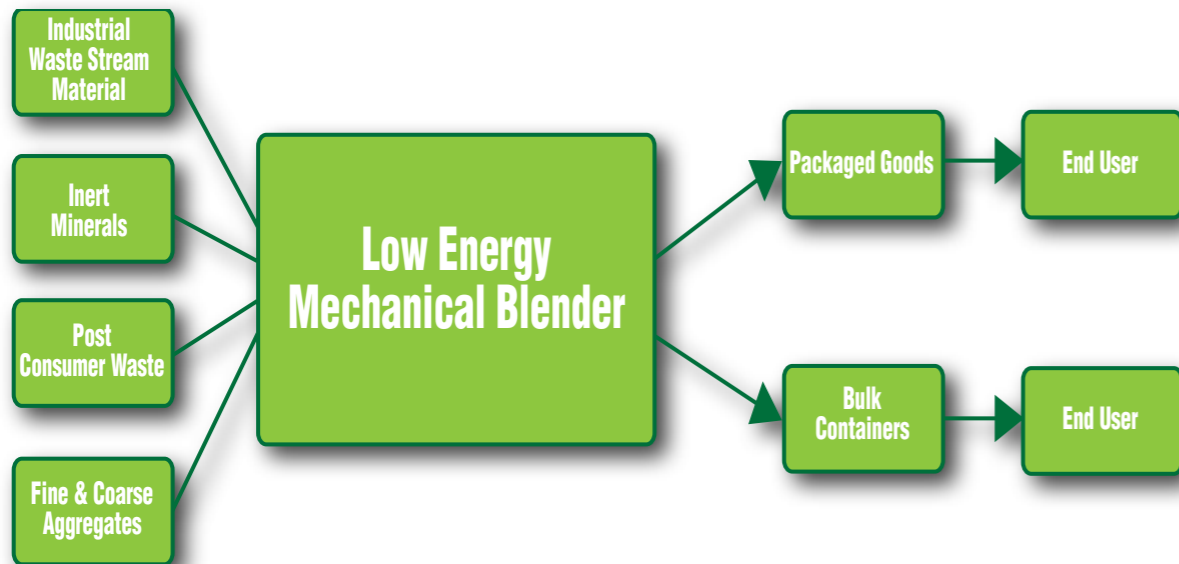
What Makes CERATECHs Products GREEN?

- **No Portland Cement**
- **Eliminates Need To Mine Virgin Resources**
- **Generates A Minimal Carbon Footprint**



What Makes CERATECHs Products GREEN?

Blended Powder Manufacturing Process Requires Minimal Energy Compared To Energy Intensive PCC Production



Greenhouse Gas Emissions (CO²) Reduced By 1 Ton Per 1 Ton of Cement Produced



What Makes CERATECHs Products GREEN?

- **Post Industrial Waste Does Not Need To Be Landfilled**
- **Cement Production Process Can Utilize Waste From Local Source**
 - Fly Ash
 - Wood Ash
 - Crushed Glass
 - Recycled Concrete
- **Flexible Base Chemistry Accepts Post Consumer Waste As Binder and or Aggregate**



Overall Product Benefits

- **Reduced Permeability**
- Reduces susceptibility to corrosion
- **Improved Acid and Sulfate Resistance**
- **Improved Dimensional Stability Via Lower Heat of Hydration Process**



Overall Product Benefits

- **Protection From ASR**
- Alkali Silica Reaction
- **Enhanced Durability**
- Abrasion
- Freeze Thaw
- **Enhanced Strength
Development**



GREEN Content of Repair Products

Percentage of **GREEN** Components Within
Cement Binder



35



65



35



35



65



65



GREEN Content of Construction Products

Percentage of **GREEN** Components Within
Cement Binder



94



88



94



90



94



90



75



An Even **GREENER** Future!

- **CERATECH cements currently possess the highest content of recycled materials in the world.**
- **CERATECH next generation of products will incorporate recycled materials as aggregates, both coarse and fine.**
 - Bottom ash as fine aggregate
 - Cemented ash as coarse aggregate
 - Recycled glass as both fine & coarse aggregate
 - Recycled Portland concrete as coarse aggregate

