High-performance, energy-efficient, low-cost, and sustainable building materials are vital to a modern and growing construction industry. Utilizing coal enables production of superior building materials including roofing tiles, siding, decking, insulation, joists/studs, sheathing, and architectural block.

**DECKING AND SIDING**
Coal plastic composite decking boards reduce manufacturing costs compared to commercial wood plastic composite decking boards.

**INSULATION**
Polyurethane and other coal-derived thermal insulating foams reduce construction costs and building energy consumption.

**CONCRETE AND CEMENT ADDITIVES**
Coal-derived graphene in cement formulations increases compressive and flexural strength by 15-35%, reduces porosity and improves corrosion resistance.

**ARCHITECTURAL BLOCK AND BRICK**
Coal-derived materials added to block and brick formulations enable improved structural and thermal insulating properties.