

# Research Outcomes and Recommendations

## Key Findings:

1. Screened 16 industrial waste candidates using CHGNet
2. Identified Top 5: FlyAshC (90.3), EAFSlag (89.4), WasteGlass (84.7)
3. Generated 32 novel structures with MatterGen (26 valid compositions)
4. Best MatterGen structure: Ca<sub>2</sub>Si<sub>2</sub>O<sub>6</sub> (E/atom = -7.82 eV)



## Expected CO<sub>2</sub> Reduction:

