The Bayer process

Mining → Crushing → Bauxite shipping → Stockpile

Coal-fired boilers

Water discharge to estuary → Residue disposal area (Red mud dam) → Neutralisation → Washers

Grinding → Clarification → liquor filtration → Hydrate filtration

Agglomeration precipitation → Growth precipitation → Classification

Cooling

Cooling

Electricity → Steam

Natural gas

Calcination → Alumina storage → Alumina shipping