

**CALCIUM CARBONATE RECOVERY METHOD, CALCIUM CARBONATE
RECOVERY DEVICE, AND CALCIUM CARBONATE RECOVERY PROGRAM**

ABSTRACT

A calcium carbonate recovery device 8 includes: an alkaline aqueous solution generation unit 81 that generates an alkaline aqueous solution containing calcium hydroxide by adding water to a combustion ash containing calcium oxide and/or the calcium hydroxide and calcium carbonate and dissolving the calcium oxide and/or the calcium hydroxide in the water; a residue separation unit 82 that separates a solid residue containing the calcium carbonate from the alkaline aqueous solution; a calcium carbonate elution unit 83 that elutes the calcium carbonate by adding carbon dioxide to the residue; and a calcium carbonate precipitation unit 85 that precipitates solid calcium carbonate by adding the alkaline aqueous solution to the eluted calcium carbonate.

[Fig. 1]