

## **Overview of Alumina Refining Energy Consumption**

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### **Abstract**

The specific energy consumption for the production of Alumina is an industry critical metric for economic reasons as well as questions of sustainability. The International Aluminium Institute has been collecting alumina refining energy data from the global industry since 1980s. This database, constructed largely from the validated voluntary input of I.A.I members, has become a reference not only for the industry, but for policy makers, regulators, energy and technology providers. Much has changed since the establishment of the survey, in terms the location of alumina production, fuel mixes, energy costs, technology and the broader sustainability and environmental context, and the underlying trends suggest the direction and magnitude of future changes. This presentation will provide an update and review of the industry's performance on energy consumption, as well as the trends in changing fuel mix.

**Keywords:** Alumina industry, specific energy consumption, fuel mix.