RenewAl™ – World’s first certified low CO₂ aluminium

Customised services and aluminium products, third-party certified for 4tCO₂/tAl or below.
RenewAl™ is a comprehensive package that includes:

**Certified CO₂ content**

4tCO₂/tAl or below

Tonnes of CO₂ emitted per tonne of aluminium produced (Scope 1&2)

- **3 times lower CO₂ footprint with RenewAl™**

**Customised services**

- **Certification** Third-party certified CO₂ emissions (Scope 1&2)
- **Technical expertise** Assistance in leveraging low CO₂ aluminium
- **Traceability** Product tracked from mine to metal
- **CO₂ reduction strategies** Support to optimise your low CO₂ sources
- **Life cycle analysis** Contribution to specific calculation on lifecycle
- **Co-branding** Unique partnerships with RenewAl™

Recycling is not enough, RenewAl™ is a cleaner start to the product life-cycle

![Diagram showing CO₂ footprint calculation](#)

\[
\text{Primary Base} + \text{Recycling} + \text{Recycling} = \text{Final CO₂ footprint}
\]

<table>
<thead>
<tr>
<th></th>
<th>4tCO₂/tAl</th>
<th>Industry average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Base</td>
<td>4</td>
<td>11.5</td>
</tr>
<tr>
<td>Recycling</td>
<td>0.6*</td>
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<tr>
<td><strong>Final CO₂ footprint</strong></td>
<td>5.2t CO₂/tAl</td>
<td>12.7t CO₂/tAl</td>
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Aluminium made with recycled material takes only 5% of the energy to produce, however the primary base impacts in CO₂ footprint.

For example, after recycling an automobile twice, the tCO₂/tAl is 5.2, compared to the industry average of 12.7t CO₂/tAl.

That’s three times lower with RenewAl™

*At every recycle process the CO₂ footprint is 0.6, calculated from 0.4 transformation + 0.2 transportation.

RenewAl™ is available wherever you are

Our advanced AP Technology™ and largely carbon free energy lie at the heart of RenewAl™, the industry’s first low CO₂ primary aluminium.

**2.5 Mt** We deliver 2.5 million tonnes global production from RenewAl™ sites

For more information, contact us at renewal@riotinto.com

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