



Austin Alloy Cast Pvt. Ltd.

We believe in a sustainable growth strategy.
For our state of the art foundry,
we use green energy produced by
solar power plant with a total capacity of 1.5 MW

Period of supply: 11 September 2021 to 12 September 2046

In a normal scenario in the Indian Investment Casting industry, A company manufacturing 110 MT/month will emit approximately 4,18,000 Kgs of CO₂ considering that 1 Kg of Investment Castings produced results in consumption of 4 KWh (this is based on our data of production and the electricity consumption). 75% power generated in India is from coal-based thermal power plants¹.

Calculation: $110 \text{ (MT)} \times 1000 \text{ (convert to Kgs)} \times 950 \text{ grms}^2 \text{ (CO}_2 \text{ emitted from 1 KWh power generated from coal)} \times 4 \text{ (1 Kg Investment Casting produced uses 4 KWh)} = 41,80,00,000 \text{ grms.}$

On the other hand, Austin Alloy Cast by using green solar power emits CO₂ emission equivalent of 2,31,000 Kgs leading to reduction in our carbon footprint by 1,87,000 Kgs.

Calculation:

Solar Power Emission = $55 \text{ (MT)} \times 1000 \times 100 \text{ grms}^2 \text{ (CO}_2 \text{ emitted from 1 KWh power generated from Solar)} \times 4 = 2,20,00,000 \text{ grms}$

Coal-based Thermal Power Emission = $55 \text{ (MT)} \times 1000 \times 950 \text{ grms} \times 4 = 20,90,00,000 \text{ grms.}$

To conclude, we manufacture Investment castings with a lower carbon footprint emitting 1,700 grms less CO₂ for every 1 Kg of casting produced.

Data Source Footnote:

- 1) <https://coal.nic.in/en/major-statistics/generation-of-thermal-power-from-raw-coal>
- 2) <https://www.planete-energies.com/en/media/article/electricity-generation-and-related-co2-emissions>

Satellite Image of our Group Solar Farm

At a Group Level, we use a total green energy of 7 MW generated from our company owned wind turbines and solar power plant

