

FIELD CASE STUDY · INDUSTRIAL GAS · CERAMICS · INDIA · 2026

A ceramic spray dryer at CUMI: 14.6% less gas for every kilogram of product

CUMI — Carborundum Universal, part of the Murugappa Group — fitted a Greentech Industrial Gas Saving Module on the PNG line to the burner of its Alfa spray dryer on 15 August 2026. The result comes from the plant's own production and gas figures: July without the module, compared with 1–15 September with it.

726 → 620

Kilocalories of gas per kg of product
— July without the module, 1–15
September with it

–14.6%

Gas per kilogram of
product, by energy
content

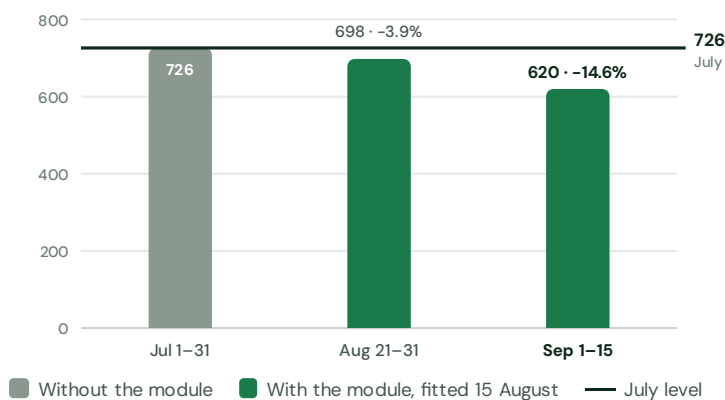
720 Scm

Standard m³ of PNG saved
in fifteen days of
September

8–10%

Committed by Niveda
Green — on a dryer where
even 5% is hard to win

Gas per kilogram of product · kcal/kg, lower is better



The Greentech Industrial Gas Saving Module on the PNG line beside the dryer's burner. Niveda Green site photo, 2026.

The plant's record

Period	Output, kg	PNG, Ncm	kcal / Scm	kcal / kg	vs July
Jul 1–31	127,228	10,375	9,617	726.14	benchmark
Aug 21–31	40,930	3,305	9,332	697.72	–3.9%
Sep 1–15	63,308	4,530	9,355	619.81	–14.6%

At July's 726.14 kcal/kg, the 63,308 kg made in 1–15 September would have needed **45.97 million kcal** of gas. The dryer used **39.24 million** — about **720 standard m³ of PNG** less in fifteen days.

A hard duty

The Alfa spray dryer dries ceramic material with a heavy-duty PNG burner. In Niveda Green's own assessment even 5% is hard to win on a dryer like this; it committed 8 to 10%.

How the plant measured it

Gas energy per kilogram of product, because the gas's calorific value moved between 9,332 and 9,617 kcal/Scm; by volume alone, gas per tonne fell 12.3%. Output ran at a similar pace: 4.1 t a day in July, 4.2 t in early September.

What was fitted

A Greentech Industrial Gas Saving Module, inline on the PNG line to the dryer's burner, fitted on 15 August 2026. No burner replacement, no change to the dryer, no additive, nothing to refill.

For comparison, on Niveda Green's other Indian industrial-gas lines: Indo Shell Cast ≈20% and Metsmith Innovations 10–15% (both signed certificates), MSM Spring India 12% on a 1,000°C furnace, Borosil 8–10% on a glassware line, and 7–8% on an 800°C aluminium melt — the percentage moves with the duty.

Running a spray dryer, a kiln or a furnace on gas? Send Niveda Green one line's equipment, fuel and monthly gas use, and get back the model, the price and what the saving is worth on that line.

Niveda Green · Authorised Greentech Distributor, India · industrial gas
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Source: CUMI's production and gas figures for the Alfa spray dryer (July, 21–31 August and 1–15 September 2026), as reported through Niveda Green; every derived figure above is recalculated from them. 21–31 August, the first days after fitting, came in at –3.9%; later months will be added as they close. Results vary with equipment, duty and fuel. Greentech is developed in Taiwan by Moletech International Technology Ltd.



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