



Coconut waste

The world produces over 100 billion coconut husks and shells every year. More than 50 million tonnes of this waste is dumped or burned annually. A single coconut husk takes 10+ years to decompose, and burning just 1 tonne of husks releases up to 1.5 tonnes of CO₂, more than coal by weight. In cities across South and Southeast Asia, coconut waste is responsible for up to 30% of clogged drainage systems, contributing to millions of dollars in urban flood damage each year. Meanwhile, this waste could fill 20,000 Olympic swimming pools annually, yet less than 10% is recycled or reused.

Open-pit charcoal production burns over 500 million tons of wood annually, causing nearly 9% of global deforestation. Producing 1 kg of charcoal emits 17–20 kg of CO₂, plus methane and other toxic gases. The process wastes over 90% of the wood and releases heavy smoke and particulates, contributing to respiratory illness in millions. Charcoal takes 3–7 days to produce, with continuous toxic emissions polluting local air

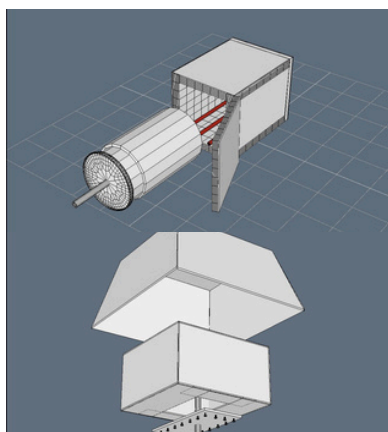


Open-pit charcoal kilns



Rural employment

Our handmade charcoal briquette initiative creates employment for rural women by engaging them in shaping and drying briquettes from agricultural waste. With basic tools and minimal training, they can earn direct income. This model supports women-led micro-units, promotes entrepreneurship, and enables inclusive participation in the green economy. It replaces harmful traditional charcoal-making with a cleaner, community-driven alternative and improving livelihoods while reducing environmental damage.



Electric charcoal oven

Our in-house developed electric charcoal oven dramatically improves the efficiency and environmental impact of charcoal production. Traditional methods require 9–10 kg of biomass to produce just 1 kg of charcoal and take 5–7 days per batch, releasing large amounts of CO₂ and pollutants through open burning. In contrast, our oven uses only 3 kg of biomass to produce 1 kg of charcoal, completing the carbonization process in just 45 minutes. The fully enclosed system eliminates direct emissions from biomass combustion, reducing air pollution and protecting nearby forests. This clean, closed-loop approach sets a new benchmark for sustainable, low-emission charcoal production.



Ethical charcoal brand

RuralbriQs by Carboneed is our ethical, eco-conscious briquette brand committed to delivering high-quality charcoal briquettes that are both environmentally sustainable and socially impactful. Made using our energy-efficient electric carbonization process, each briquette is produced with one-third the biomass and a fraction of the emissions compared to traditional methods. But RuralbriQs is more than just a clean fuel source, it's a rural empowerment movement. Through localized briquette shaping units, the brand creates dignified income opportunities for women and underserved communities, turning agricultural waste into value while promoting climate resilience from the ground up. RuralbriQs stands for clean energy, fair work, and a better future for all.

✗ Cons of traditionally charcoal

- Inefficient Biomass Conversion - 9kg biomass turns into 1kg charcoal.
- Time Consuming Process - takes 5-7 days to complete.
- Causes Deforestation - made mostly from wood.
- Bad Working Environment - exposes workers to toxic gasses and elements.
- Carbon Emissions - emits 15kg CO₂ while producing only 1kg of wood charcoal.

+ Your Benefit?

- Higher Calorific Value - higher carbon content vs wood charcoals
- Longer Burn - 1.25x more burning time than wood charcoals
- Clean, Safe Cooking - tasty foods, lower smokes
- Easy Cleanup - leaves behind less than 5% ash making post-cooking cleanup faster
- Year Around supply and Consistent Prices - our fully automatic production process eliminates weather dependency and sudden price hikes.

✓ Pros of Carboneed charcoal

- Efficient Biomass Conversion - 3kg biomass turns into 1kg charcoal.
- Time Saving Process - takes only 45-60 minutes to complete.
- Causes No Deforestation - made from discarded bio-waste (coconut husk).
- Ethical Job opportunity - involves underserved communities with limited skills and tools.
- No Direct Carbon Emission - no direct carbon emissions because of combustion-less electric charcoal oven.

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Let's Help The Planet