



# Abellon CleanEnergy

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## Biomass Pellets and Pellet-Based Appliances

CASE STUDY



Figure 1: Solid Biofuel Manufacturing Facility in Vithalpara, Gujarat

PELLETS & PELLET BASED APPLIANCES



Figure 2: Pellets & Pellet based Appliances

### Summary

Globally, heat generation accounts for about 42 per cent of total energy requirement. In India, however, renewables focus remains primarily on power. Even within the heat generation/cooking, the focus is on the residential segment, the lower socio-economic strata, where adoption is heavily dependent on subsidization.

Our business model focuses on commercial/industrial entities currently using fossil fuels such as LPG/diesel, have the desire to adopt alternative fuels, and paying capacity to switch, without adding to the nation's subsidy burden.

Thus, we have successfully developed and market our range of biomass pellets and pellet-based cook stoves and burners to the commercial/industrial segments pan India.



## **Objective of Intervention**

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Showcasing how biomass pellets and pellet-based appliances can effectively meet commercial/industrial cooking and other heat generation needs, replacing fossil fuels such as liquefied petroleum gas (LPG) and diesel, and leading to economic, environmental, and social benefits.

## **Type of Intervention and Location**

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Development and manufacturing of a range of pellet appliances to meet commercial cooking and heating needs at biomass pellet manufacturing facilities in Gujarat with cumulative capacity of 1,00,000 tonnes per annum

## **Description of Intervention**

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- Two state-of-the-art biomass pellet manufacturing facilities established in Gujarat, India, with cumulative capacity of 100,000 tonnes per annum to ensure consistent and price stable fuel supply.
- Development and manufacturing of a range of pellet appliances to meet diverse commercial cooking and heating needs. Currently setting up own manufacturing facility for appliances in Gujarat.
- Established a pan India sales, service, and distribution network with 150+ sales and service force and 60+ distribution partners
- Demonstration/trial-based sales, followed by after-sales training/hand holding to ensure correct and effective use of technology
- Participation in conference, exhibitions, and other public platforms round the year for one-to-many reach

## **Intangible or Tangible Benefit**

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### **Customers**

- Economic benefit:
  - Net savings on fuel cost
  - Predictable availability and cost of fuel
  - Payback period ranging between 3–6 months of purchase
  - Efficiency comparable with LPG/diesel/FO based systems



- Health:
  - No unhealthy fumes, noise, and fire hazard

### Nation

- Reduced fossil fuel use and cost
- Environment and health benefits
  - Reduced emissions, air pollution, health risks
  - Energy self-reliance
  - A 'Made in India' solution
- Income and employment opportunities

### About Abellon CleanEnergy

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Abellon CleanEnergy is a sustainable energy solutions provider focussing on bioenergy, solar, and other forms of clean energy.

A modern bioenergy pioneer in India, Abellon's global presence extends across North America, Europe and Africa, through pellet and appliances manufacturing/marketing networks, bio-power, solar, and energy farming and technology development operations.