A clean, cost effective, alternative to charcoal, LPG, and other conventional cooking and heating solutions

Ideal for small scale commercial and industrial as well as residential cooking and heating requirements

A Low investment, high returns solution…can deliver 15-20% savings on fuel costs and maximize profits for small businesses

**Biomass Pellets: an Introduction**

Biomass Pellets are a cost effective and environment friendly fuel made from recyclable biomass residues – generally, sawmill residues and agriculture waste. Pelletizing technology involves conversion of biomass into a densified, uniform fuel that is cost-stable, carbon-neutral, promotes value out of waste generation, promotes economic benefits, and ensures energy self-reliance for individual customers and the nation. Thus, biomass pellets are a powerful replacement to conventional fuels such as Diesel, LPG, PNG, Charcoal and loose biomass. Pellets are widely used in residential, commercial, and industrial energy generation, heating and cooking applications across the globe.

**Biomass Pellets for Cooking and Heat Generation**

Biomass Pellets can be successfully used in conjunction with a range of cooking and heating technologies. Biomass pellet based cooking can meet the need for healthy, hygienic and tasty food as compared to use of other fuels. The slow and consistent heating of pellets locks nutrition and flavor of food cooked. Cooking with pellets also ensures a clean, safe and healthy environment, reducing hazards such as fire, respiratory illnesses, and more.

Heat generation with biomass pellets delivers consistent output over long durations, with cost savings and environmental benefits, making it an ideal solution for small and large scale industrial heat requirements.

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**SAVE BIG**

**15%-20% ON FUEL COSTS**

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**Eco-Pellets deliver a range of benefits for our customers, as they are…**

**Efficient**

Their uniform shape and size ensures that Eco-Pellets offer remarkable consistency & burning efficiency. Eco-Pellets have low moisture and ash content, which further add to their performance.

**Cost Effective**

Customers can significantly lower their energy costs through use of eco-pellets.

**Sustainable & Eco Friendly**

Use of Eco-Pellets reduces emissions through utilization of biomass residue, and replacement to conventional fossil fuels.

**Easily Available**

Eco-Pellets are manufactured locally (within the country) using the abundant biomass resources available as a result of a thriving timber industry. Thus, unlike imported fuels such as LPG and Diesel, there is no fear of shortages, stock-outs, or undue price fluctuations.

**Smokeless Operation**

Eco-Pellets offer smokeless operation as well as clean and hygienic working environment.

**Convenient Pack Size**

Eco-Pellets are available in 15kg bags for small commercial, industrial and residential use. We can also supply pellets in bulk quantities for large scale industrial requirements.

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**“Eco-Pellets” is Abellon’s brand of carbon-neutral, clean, economical, eco-friendly and easy to use biomass pellet fuel made especially for Ghana.**

The pellets are a value from waste solution produced in our state-of-the-art facility located in Kumasi, Ghana. Eco-Pellets are produced by utilizing saw mill residue from the nearby timber industry, which is otherwise disposed of through burning, in the process generating significant emissions and other related issues.

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<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>Value</th>
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<tbody>
<tr>
<td>GCV (kcal/kg)</td>
<td>4200+2%</td>
</tr>
<tr>
<td>Ash (%)</td>
<td>&lt;3</td>
</tr>
<tr>
<td>Moisture (%)</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Bulk Density (kg/m³)</td>
<td>650</td>
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</tbody>
</table>

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**SAVING**

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Calorific Value (kcal)</th>
<th>Pellet(kg)</th>
<th>Charcoal(kg)</th>
<th>LPG(kg)</th>
<th>Diesel(ltr)</th>
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</thead>
<tbody>
<tr>
<td>Pellet(kg)</td>
<td>4200</td>
<td>1.0</td>
<td>1.1</td>
<td>2.2</td>
<td></td>
</tr>
<tr>
<td>Charcoal(kg)</td>
<td>5000</td>
<td>1.2</td>
<td>1.3</td>
<td>2.6</td>
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<tr>
<td>LPG(kg)</td>
<td>11000</td>
<td>1.0</td>
<td>1.1</td>
<td>3.4</td>
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<tr>
<td>Diesel(ltr)</td>
<td>9100</td>
<td>2.0</td>
<td>2.9</td>
<td>4.4</td>
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</tbody>
</table>

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*Fossil fuel rates are as per the current rate. Above data is based on theoretical analysis and is meant to serve as guideline only.*
Abellon’s first biomass pellets manufacturing facility in Ghana has a capacity of 1,00,000 tonnes/annum. The facility would utilize 120,000 tonnes of wood residue, and help reduce 160,000 tonnes of CO₂ through replacement of fossil fuels/wood/charcoal.

Abellon CleanEnergy Ghana

Abellon CleanEnergy Ghana is a wholly owned subsidiary of Abellon Clean Energy, a sustainable energy solutions company, set up with a vision to contribute to clean energy generation with focus on bioenergy including biomass pellets, biofuels, bio-power, solar energy, and other forms.

Abellon has established its global footprint and presence across four continents including Asia (India), North America, Europe, and Africa (Ghana).

One of Abellon’s key focus areas is to partner with emerging nations such as Ghana and India to support achievement of energy self-reliance and the MDGs, by harnessing the abundant potential of bio-energy.

Abellon is a member of the Global Alliance for Clean Cookstoves and has received several recognitions for its innovative biomass pellet and pellet based equipment model globally including the prestigious Zayed Future Energy Prize 2013, and the Ashden Awards, 2011.

The company has a pipeline of products/solutions lined up in Ghana including clean cook stoves powered by wood pellets as an alternative to wood and charcoal fired stoves, bio-power/solar power generation, and large scale agro forestry projects that utilize marginal land for cultivation of energy crops such as bamboo.

Abellon CleanEnergy Ghana

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