



## **CLNO | CLEANTECH TRANSIT | SUMMARY | PROFILE**

**CleanTech Transit Corp., [CLNO.OB](#)** , is a company focused on producing power from renewable sources. The company plans to produce and sell clean electricity globally, with a focus on sustainable energies using renewable resources such as Geothermal, Solar and Wind.

**CleanTech CLNO**, has just announced that it is planning to acquire a 25% stake in **Phoenix Energy** ([phoenixenergy.net](http://phoenixenergy.net)), a manufacturer and distributor of biomass-generated power plants.

**Phoenix Energy** has a fully constructed, one-half megawatt (500 kilowatt) biomass energy project located in California.

## **CONVERTING BIO MASS TO ENERGY**

**Phoenix Energy's** model PHX-1000 converts wood into a synthetic natural gas (&quot;syngas&quot; or &quot;producer gas&quot;) through the process of gasification. This syngas is then used to fuel a specially modified natural gas genset to produce electricity and heat.

In a process very similar to manufacturing charcoal, the gasification process partially combusts wood in an oxygen starved environment. By depriving the fire of sufficient oxygen the wood does not burn, but rather gives off a flammable gas. As the wood gives off the syngas, it is transformed into charcoal and ash of approximately 1-5% of the volume of wood fuel. The syngas is then captured, cleaned and cooled before being sent as fuel to the genset. The gensets are provided by a variety of nationally known vendors such as Cummins, Caterpillar, GE and others. This ensures that there are readily available spare parts and maintenance technicians available locally in addition to support from Phoenix Energy.

## **ENVIRONMENTAL BENEFITS**

The technology used by **Phoenix Energy** to turn your waste from industry agriculture and forestry into power has many environmental benefits. At Phoenix Energy we are deeply committed to our customers both in reducing their costs of operation and in helping them be good corporate citizens, having a positive impact on the environment. By installing our wood waste gasification systems our customers help to:

- Reduce greenhouse gas emissions
- Reduce the amount of toxic pollutants in the atmosphere
- Save landfill space from taking up more of our landscape and Reduce groundwater contaminants
- Improve energy security and reduce dependence on foreign sources of energy

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