North. Eastern. Tasmania
Pellet Fires

Mervyn Jones
Production Manager

History

- Scottsdale Hopgrowers began the plant in 1974 to find an efficient way to export hops to overseas breweries.
- In 2001 the demand for hops had decreased, so new options were required.
- The business turned to manufacturing wood pellets.
The Problem

- The need for a viable, cost efficient and environmentally safe way to dispose of or use waste materials after saw milling.

The Solution

- To use waste materials from sawmilling to produce top quality wood pellet fuel for the use in high efficiency home heaters.
The Process

- Involves manufacturing waste sawmill materials into a high quality pellet fuel.

Unprocessed sawdust  finished product

The Process

- The waste material is dried, compressed, and formed into small pellet sized pieces that are about the same size in diameter as a pencil rubber.

Pellet Mill
The Process

- The wood is turned from a waste material of relatively low value to products with an expanding retail market.

Costs

- One 20kg bag of pellets will burn for up to 30 hours or more. The fuel pellets will provide heating to a typical home for approximately $20 per week.

- Fuel pellets are a cost effective & convenient heat source. Over 10kws of heat output to heat up to 14 squares on highest setting of pellet fire.

- One tonne of pellets equates to around 4 - 5 tonnes or 10 meters of fire wood.
Energy Efficiency

- The burning process is highly combustible and produces little residue with an energy efficiency of up to 94.5%.
- Pellet Fires are up to 50% more efficient than slow combustion wood heaters and 350% more efficient than open fires.
- Heat output can be effectively controlled between 25% and 100% without compromising efficiency or smoke emission.
- With an emission Factor only 1 gram the pellet fuel fires actually qualify for some buy back programs.

Environmentally Friendly

- Pellet Fires have the lowest emission rate of any wood burner available in Australasia. In fact, they are virtually smokeless! Pellet Fires generate heat that is both efficient and cooperative with our effort in restoring environmental quality.
- **Renewable Fuels Alternative Energy**
- Pellet Fuel not only reduces dependence on finite supplies of fossil fuels like oil gas and coal, it is carbon neutral. That means when you use pellet heat, you are not contributing to greenhouse gas which causes global warming.
Pellet Heater

- Pellet Heaters are manufactured in Victoria to ISO 9002 standards, flue components are made in Tasmania and exceed the Australian Standards for wood fire heaters when correctly installed.

New products

- Recently we have had success in producing an environmentally friendly animal litter, which is proving to be well accepted with animal owners.

- We have also identified other biomass materials that are suitable for pellet production.
Conclusion

- Utilizing waste materials to make an environmentally friendly product.
- Needs to fast track changes in government policy on Kyoto protocol as it is presently holding the pellet industry back.
- Carbon trading & Pellet association essential to move the industry forward.

Contact us.

- 0363532202
- 0419898647
- mervynjjones@westnet.com.au
- Or see me at the end of the conference.