



MOUNT ALEXANDER BIOENERGY

BIOMASS PLANT

PyroCal 1800 CCT (technology may vary with detailed design)

- Uses a gasification/pyrolysis process that heats organics in a low/no oxygen chamber to produce biochar and a synthetic gas (syngas) consisting on CH₄ and H₂.
- Gas will be scrubbed/cleaned and then used as gas substitute by Don Smallgoods natural gas use.
- No waste materials are **combusted**
- Feedstock streams - clean untreated wasted timber and woody waste, some unrecyclable cardboard from Don Smallgoods, potentially 'oversize' from composting facilities, potentially some incidental unrecyclable (non toxic) plastic wrap from Don Smallgoods.
- Digestate from the Anaerobic Digester can be processed
- No mixed waste, no 'toxic waste' and no other plastics will be used.
- The types of biomass that can be received will depend on the technology selected and EPA requirements.
- Biochar can be supplied to the agricultural / garden supplies market
- Biochar can be 'activated' with nutrients from AD digestate to make a valuable fertiliser.
- When biochar is ploughed into topsoil it can help retain moisture and sequester carbon. It can also be added to feedstock to reduce cattle's methane emissions.
- Stack height will be a maximum of 10m but probably considerable less.



FACT SHEET
MAB002 DRAFT
30 JULY 2021