

Answers

1 ai) 118 MJ/s

aii) 0.61 kmol per kmol of CO<sub>2</sub> entering the plant, or 0.38 kmol per kmol of

CO<sub>2</sub> captured

ci) 108 kg/s

cii) - 32 MW (i.e. an increase in power output)

2 b) Embodied energy, 6.34 GJ/tonne, GHG saving 2.2 tCO<sub>2</sub> per t of bioethanol