

Appendix 3 – cost estimates

A. Biomass boiler and feed system for Cadamstown

B. AD, pasteuriser and CHP system for Ballyboy

<i>Capital costs</i>	€
Digester & pasteuriser	555,000
100kw & 65kw CHP housed & fitted	180,000
Site works	18,000
Storage facilities for liquid & fibre	30,000
Project development costs	25,000
Commissioning & training	15,000
Grid Connection ¹	30,000
District heating ¹	7,000
Total	860,000

<i>Operational costs pa</i>		<i>Operational revenue pa</i>	
Maintenance & parts	10,000	Electricity to development @10c/kw	87,600
Fuel and ops for CHP @1c/kwh	13,200	Heat to development @ 2c/kw	10,000
Labour 1,000hr pa @€12/hr	12,000	Electricity to grid @ 7c/kw	31,000
Transport @ €3.30/cu m slurry	15,000	Gate fees @€35/t	60,000
Nutrient management	10,000	Fibre @€5/cu m	14,000
other	6,000	total	202,600
total	66,200		0

This means that it is estimated that if such an AD project was developed in association with a 50 house development that it could provide a 16% ROI (Return on Investment). It would also provide the farmers involved with a total of at least €20,000 of a reduction in production costs and provide many social and environmental benefits to society and help to reduce imports to Ireland of fertiliser and fuel.