

DAFTAR ISI

HALAMAN JUDUL.....	i
HALAMAN PENGESAHAN.....	ii
HALAMAN PERSEMBAHAN.....	iv
KATA PENGANTAR.....	v
DAFTAR ISI.....	vii
DAFTAR GAMBAR.....	ix
DAFTAR TABEL.....	x
INTISARI.....	ii
ABSTRACT.....	iii
BAB I PENDAHULUAN.....	1
1.1 Latar Belakang.....	1
1.2 Perumusan Masalah.....	3
1.3 Batasan Masalah.....	3
1.4 Tujuan Penelitian.....	4
1.5 Manfaat Penelitian.....	5
1.6 Keaslian Penelitian.....	5
BAB II TINJAUAN PUSTAKA DAN LANDASAN TEORI.....	7
2.1 Tinjauan Pustaka.....	7
2.1.1 <i>Biogas Power Plant</i>	7
2.2 Landasan Teori.....	13
2.2.1 <i>Life cycle assessment (LCA)</i>	13
2.2.2 <i>Life Cycle Costing (LCC)</i>	14
2.2.3 <i>Societal Life Cycle Assessment (SLCA)</i>	15
2.2.4 <i>Life Cycle Sustainable Assesment (LCSA)</i>	17
BAB III METODE PENELITIAN.....	19
3.1 Waktu dan Tempat Penelitian.....	19
3.2 Objek Penelitian.....	19
3.3 Alat dan Bahan Penelitian.....	20
3.4 Tahapan Penelitian.....	20
BAB IV HASIL PENELITIAN DAN PEMBAHASAN.....	32
4.1 Kondisi Terkini <i>Biogas Power Plant Gamping Sleman</i>	32

4.2 Life Cycle Assessment	33
4.2.1 Goals and Scope Definition	33
4.2.2 Life Cycle Inventory.....	36
4.2.3 Life Cycle Impact Assessment	55
4.2.4 Interpretasi Hasil.....	60
4.3 Life Cycle Costing	62
4.3.1 Goals and scope Definition	62
4.3.2 Inventarisasi data	63
4.3.3 Impact Assessment LCC.....	68
4.3.4 Interpretasi Hasil LCC.....	69
4.4 Societal Life cycle assessment (SLCA)	72
4.4.1 Goals and Scope definition	72
4.4.2 Inventarisasi data SLCA	73
4.4.3 Impact Assessment SLCA.....	90
4.4.4 Interpretasi hasil.....	97
4.5 Life Cycle Sustainability Assessment	99
4.5.1 Goals and Scope definition	99
4.5.2 Inventory data.....	100
4.5.3 Impact assessment.....	106
4.5.4 Intepretasi Hasil SLCA.....	106
BAB V KESIMPULAN DAN SARAN	108
5.1 Kesimpulan.....	108
5.2 Saran.....	109
DAFTAR PUSTAKA	111