

DAFTAR ISI

LEMBAR PENGESAHAN	i
LEMBAR PERNYATAAN ORISINALITAS	ii
ABSTRAK	iii
ABSTRACT.....	iv
LEMBAR PERSEMBAHAN	v
KATA PENGANTAR	vii
DAFTAR ISI.....	viii
DAFTAR GAMBAR	x
DAFTAR TABEL.....	xii
BAB I PENDAHULUAN.....	1
1.1 LATAR BELAKANG MASALAH.....	1
1.2 RUMUSAN MASALAH	2
1.3 BATASAN MASALAH	2
1.4 TUJUAN DAN MANFAAT	2
1.5 METOD PENELITIAN	3
1.6 SISTEMATIKA PENULISAN.....	3
BAB II TINJAUAN PUSTAKA	4
2.1 PRINSIP KERJA KONSEP	4
2.2 MANAJEMEN ENERGI	5
2.3 PANELSURYA	5
2.4 <i>OFF-GRID SYSTEM</i>	6
2.5 <i>CHARGE CONTROLLER PWM</i>	7
2.6 <i>DEEPCYCLE BATTERY</i>	8
2.7 ANALISIS PEMILIHAN IMPLEMENTASI	8
2.8 PERAMALAN <i>FORECASTING</i>	10
2.9 <i>DATA TIMES SERIES</i>	10
2.10 JENIS MODEL ALGORITMA <i>TIMES SERIES</i>	10
2.10.1 <i>ARIMA (AUTOREGRESSIVE INTEGRATED MOVING AVERAGE)</i>	11
2.10.2 <i>SARIMA (SEASONAL AUTOREGRESSIVE INTEGRATED MOVING AVERAGE)</i>	11
2.11 <i>AUTOCORRELATION FUNTION (ACF)</i>	12
2.12 <i>PARTIAL AUTOCORRELATION (PACF)</i>	12
2.13 <i>MEAN SQUARE ERROR (MSE)</i>	12

2.14	<i>ROOT MEAN SQUARE ERROR (RMSE)</i>	13
2.15	<i>DIFFERENCING (INTEGRETED)</i>	13
2.16	<i>AIC (AKAIKE INFORMATION CRITERION)</i>	14
BAB III PERANCANGAN SISTEM		15
3.1	DESKRIPSI SISTEM PANEL SURYA	15
3.2	<i>SCALLING</i> BEBAN	15
3.3	<i>SIZING</i>	16
3.4	FUNGSI DAN SPESIFIKASI	17
3.4.1	FUNGSI KOMPONEN	17
3.4.2	SPESIFIKASI KOMPONEN	18
3.5	DESKRIPSI SISTEM <i>SUPPLY, DEMAND, MONITORING</i>	18
3.6	<i>SARIMA FLOWCHART</i>	21
3.7	PROSES ALGORITMA SARIMA	22
BAB IV PENGUJIAN DAN ANALISIS		20
4.1	DATA PRODUKSI KWH	23
4.2	IDENTIFIKASI DATA	24
4.3	IDENTIFIKASI MENGGUNAKAN ACF DAN PACF	25
4.4	ANALISIS MODEL SARIMA	32
4.4.1	MODEL ALGORITMA SARIMA $(1,0,1)X(2,1,1)_{24}$	32
4.4.2	MODEL ALGORITMASARIMA $(1,1,1)X(2,1,1)_{24}$	33
4.4.3	MODEL ALGORTIMA SARIMA $(1,0,1)X(2,0,1)_{24}$	34
4.4.4	MODEL ALGORTIMA SARIMA $(1,1,1)X(2,0,1)_{24}$	35
BAB V KESIMPULAN DAN SARAN		32
5.1	KESIMPULAN	36
5.2	SARAN	36
DAFTAR REFERENSI		37
LAMPIRAN		35
LAMPIRAN A		39
LAMPIRAN B		40