

LAMPIRAN

Lampiran 1. Data Beban Listrik Kandang 2020

a. Data Beban Kandang pada bulan Januari Tahun 2020 (kWh)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/01/2020	68,09	14,49	82,59
02/01/2020	68,09	14,49	82,59
03/01/2020	68,09	14,49	82,59
04/01/2020	68,09	14,49	82,59
05/01/2020	68,09	14,49	82,59
06/01/2020	68,09	14,49	82,59
07/01/2020	68,09	14,49	82,59
08/01/2020	97,79	14,49	112,29
09/01/2020	97,79	63,99	161,78
10/01/2020	97,79	63,99	161,78
11/01/2020	97,79	63,99	161,78
12/01/2020	97,79	63,99	161,78
13/01/2020	97,79	63,99	161,78
14/01/2020	97,79	63,99	161,78
15/01/2020	127,49	63,99	191,48
16/01/2020	127,49	63,99	191,48
17/01/2020	127,49	113,49	240,98
18/01/2020	127,49	113,49	240,98
19/01/2020	127,49	113,49	240,98
20/01/2020	127,49	113,49	240,98
21/01/2020	127,49	113,49	240,98
22/01/2020	157,19	113,49	270,68
23/01/2020	157,19	113,49	270,68
24/01/2020	157,19	113,49	270,68
25/01/2020	157,19	162,99	320,17
26/01/2020	157,19	162,99	320,17
27/01/2020	157,19	162,99	320,17
28/01/2020	157,19	162,99	320,17
29/01/2020	186,89	162,99	349,87
30/01/2020	186,89	162,99	349,87
31/01/2020	186,89	162,99	349,87

Pada saat ayam memilii umur 1 hari kandang ayam memerlukan daya sebesar 82,59 dan saat ayam sudah dewasa dan siap panen memerlukan daya 34,987 kWh.

b. Data Beban Kandang pada bulan Februari Tahun 2020 (kWh)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/02/2020	186,89	162,99	349,87
02/02/2020	186,89	162,99	349,87
03/02/2020	186,89	162,99	349,87
04/02/2020	186,89	162,99	349,87
05/02/2020	186,89	162,99	349,87
06/02/2020	186,89	162,99	349,87
07/02/2020	186,89	162,99	349,87
08/02/2020	186,89	162,99	349,87
09/02/2020	186,89	162,99	349,87
10/02/2020	127,49	113,49	240,98
11/02/2020	127,49	113,49	240,98
12/02/2020	127,49	113,49	240,98
13/02/2020	127,49	113,49	240,98
14/02/2020	127,49	113,49	240,98
15/02/2020	68,09	63,99	132,09
16/02/2020	68,09	63,99	132,09
17/02/2020	68,09	63,99	132,09
18/02/2020	68,09	63,99	132,09
19/02/2020	68,09	63,99	132,09
20/02/2020	0,00	0,00	0,00
21/02/2020	0,00	0,00	0,00
22/02/2020	0,00	0,00	0,00
23/02/2020	0,00	0,00	0,00
24/02/2020	0,00	0,00	0,00
25/02/2020	0,00	0,00	0,00
26/02/2020	0,00	0,00	0,00
27/02/2020	0,00	0,00	0,00
28/02/2020	0,00	0,00	0,00
29/02/2020	0,00	0,00	0,00

Pada saat panen ayam mulai berkurang secara bertahap begitu juga dengan konsumsi daya listrik, saat masa pembersihan dan persiapan pemeliharaan kandang ayam tidak memerlukan daya listrik.

c. Data Beban Kandang pada bulan Maret Tahun 2020 (kWh)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/03/2020	0,00	0,00	0,00
02/03/2020	0,00	0,00	0,00
03/03/2020	0,00	0,00	0,00
04/03/2020	0,00	0,00	0,00
05/03/2020	68,09	14,49	82,59
06/03/2020	68,09	14,49	82,59
07/03/2020	68,09	14,49	82,59
08/03/2020	68,09	14,49	82,59
09/03/2020	68,09	14,49	82,59
10/03/2020	68,09	14,49	82,59
11/03/2020	68,09	14,49	82,59
12/03/2020	97,79	14,49	112,29
13/03/2020	97,79	63,99	161,78
14/03/2020	97,79	63,99	161,78
15/03/2020	97,79	63,99	161,78
16/03/2020	97,79	63,99	161,78
17/03/2020	97,79	63,99	161,78
18/03/2020	97,79	63,99	161,78
19/03/2020	127,49	63,99	191,48
20/03/2020	127,49	63,99	191,48
21/03/2020	127,49	113,49	240,98
22/03/2020	127,49	113,49	240,98
23/03/2020	127,49	113,49	240,98
24/03/2020	127,49	113,49	240,98
25/03/2020	127,49	113,49	240,98
26/03/2020	157,19	113,49	270,68
27/03/2020	157,19	113,49	270,68
28/03/2020	157,19	113,49	270,68
29/03/2020	157,19	162,99	320,17
30/03/2020	157,19	162,99	320,17
31/03/2020	157,19	162,99	320,17

Pada saat ayam memiliki umur 1 hari kandang ayam memerlukan daya sebesar 82,59 dan konsumsi daya akan meningkat secara bertahap mengikuti umur ayam.

d. Data Beban Kandang pada bulan April Tahun 2020 (kWh)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/04/2020	157,19	162,99	320,17
02/04/2020	186,89	162,99	349,87
03/04/2020	186,89	162,99	349,87
04/04/2020	186,89	162,99	349,87
05/04/2020	186,89	162,99	349,87
06/04/2020	186,89	162,99	349,87
07/04/2020	186,89	162,99	349,87
08/04/2020	186,89	162,99	349,87
09/04/2020	186,89	162,99	349,87
10/04/2020	186,89	162,99	349,87
11/04/2020	186,89	162,99	349,87
12/04/2020	186,89	162,99	349,87
13/04/2020	186,89	162,99	349,87
14/04/2020	127,49	113,49	240,98
15/04/2020	127,49	113,49	240,98
16/04/2020	127,49	113,49	240,98
17/04/2020	127,49	113,49	240,98
18/04/2020	127,49	113,49	240,98
19/04/2020	68,09	63,99	132,09
20/04/2020	68,09	63,99	132,09
21/04/2020	68,09	63,99	132,09
22/04/2020	68,09	63,99	132,09
23/04/2020	68,09	63,99	132,09
24/04/2020	0,00	0,00	0,00
25/04/2020	0,00	0,00	0,00
26/04/2020	0,00	0,00	0,00
27/04/2020	0,00	0,00	0,00
28/04/2020	0,00	0,00	0,00
29/04/2020	0,00	0,00	0,00
30/04/2020	0,00	0,00	0,00

Pada saat panen ayam mulai berkurang secara bertahap begitu juga dengan konsumsi daya listrik, saat masa pembersihan dan persiapan pemeliharaan kandang ayam tidak memerlukan daya listrik.

e. Data Beban Kandang pada bulan Mei Tahun 2020 (kWh)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/05/2020	0,00	0,00	0,00
02/05/2020	0,00	0,00	0,00
03/05/2020	0,00	0,00	0,00
04/05/2020	0,00	0,00	0,00
05/05/2020	0,00	0,00	0,00
06/05/2020	0,00	0,00	0,00
07/05/2020	0,00	0,00	0,00
08/05/2020	68,09	14,49	82,59
09/05/2020	68,09	14,49	82,59
10/05/2020	68,09	14,49	82,59
11/05/2020	68,09	14,49	82,59
12/05/2020	68,09	14,49	82,59
13/05/2020	68,09	14,49	82,59
14/05/2020	68,09	14,49	82,59
15/05/2020	97,79	14,49	112,29
16/05/2020	97,79	63,99	161,78
17/05/2020	97,79	63,99	161,78
18/05/2020	97,79	63,99	161,78
19/05/2020	97,79	63,99	161,78
20/05/2020	97,79	63,99	161,78
21/05/2020	97,79	63,99	161,78
22/05/2020	127,49	63,99	191,48
23/05/2020	127,49	63,99	191,48
24/05/2020	127,49	113,49	240,98
25/05/2020	127,49	113,49	240,98
26/05/2020	127,49	113,49	240,98
27/05/2020	127,49	113,49	240,98
28/05/2020	127,49	113,49	240,98
29/05/2020	157,19	113,49	270,68
30/05/2020	157,19	113,49	270,68
31/05/2020	157,19	113,49	270,68

Pada saat ayam memilii umur 1 hari kandang ayam memerlukan daya sebesar 82,59 dan komsumsi daya akan meningkat secara bertahap mengikuti umur ayam.

f. Data Beban Kandang pada bulan Juni Tahun 2020 (kWh)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/06/2020	157,19	162,99	320,17
02/06/2020	157,19	162,99	320,17
03/06/2020	157,19	162,99	320,17
04/06/2020	157,19	162,99	320,17
05/06/2020	186,89	162,99	349,87
06/06/2020	186,89	162,99	349,87
07/06/2020	186,89	162,99	349,87
08/06/2020	186,89	162,99	349,87
09/06/2020	186,89	162,99	349,87
10/06/2020	186,89	162,99	349,87
11/06/2020	186,89	162,99	349,87
12/06/2020	186,89	162,99	349,87
13/06/2020	186,89	162,99	349,87
14/06/2020	186,89	162,99	349,87
15/06/2020	186,89	162,99	349,87
16/06/2020	186,89	162,99	349,87
17/06/2020	127,49	113,49	240,98
18/06/2020	127,49	113,49	240,98
19/06/2020	127,49	113,49	240,98
20/06/2020	127,49	113,49	240,98
21/06/2020	127,49	113,49	240,98
22/06/2020	68,09	63,99	132,09
23/06/2020	68,09	63,99	132,09
24/06/2020	68,09	63,99	132,09
25/06/2020	68,09	63,99	132,09
26/06/2020	68,09	63,99	132,09
27/06/2020	0,00	0,00	0,00
28/06/2020	0,00	0,00	0,00
29/06/2020	0,00	0,00	0,00
30/06/2020	0,00	0,00	0,00

Pada saat panen, ayam mulai berkurang secara bertahap begitu juga dengan konsumsi daya listrik, saat masa pembersihan dan persiapan pemeliharaan kandang ayam tidak memerlukan daya listrik.

g. Data Beban Kandang pada bulan Juli Tahun 2020 (KW)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/07/2020	0,00	0,00	0,00
02/07/2020	0,00	0,00	0,00
03/07/2020	0,00	0,00	0,00
04/07/2020	0,00	0,00	0,00
05/07/2020	0,00	0,00	0,00
06/07/2020	0,00	0,00	0,00
07/07/2020	0,00	0,00	0,00
08/07/2020	0,00	0,00	0,00
09/07/2020	0,00	0,00	0,00
10/07/2020	0,00	0,00	0,00
11/07/2020	68,09	14,49	82,59
12/07/2020	68,09	14,49	82,59
13/07/2020	68,09	14,49	82,59
14/07/2020	68,09	14,49	82,59
15/07/2020	68,09	14,49	82,59
16/07/2020	68,09	14,49	82,59
17/07/2020	68,09	14,49	82,59
18/07/2020	97,79	14,49	112,29
19/07/2020	97,79	63,99	161,78
20/07/2020	97,79	63,99	161,78
21/07/2020	97,79	63,99	161,78
22/07/2020	97,79	63,99	161,78
23/07/2020	97,79	63,99	161,78
24/07/2020	97,79	63,99	161,78
25/07/2020	127,49	63,99	191,48
26/07/2020	127,49	63,99	191,48
27/07/2020	127,49	113,49	240,98
28/07/2020	127,49	113,49	240,98
29/07/2020	127,49	113,49	240,98
30/07/2020	127,49	113,49	240,98
31/07/2020	127,49	113,49	240,98

Pada saat ayam memilii umur 1 hari kandang ayam memerlukan daya sebesar 82,59 dan komsumsi daya akan meningkat secara bertahap mengikuti umur ayam.

h. Data Beban Kandang pada bulan Agustus Tahun 2020 (KW)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/08/2020	157,19	113,49	270,68
02/08/2020	157,19	113,49	270,68
03/08/2020	157,19	113,49	270,68
04/08/2020	157,19	162,99	320,17
05/08/2020	157,19	162,99	320,17
06/08/2020	157,19	162,99	320,17
07/08/2020	157,19	162,99	320,17
08/08/2020	186,89	162,99	349,87
09/08/2020	186,89	162,99	349,87
10/08/2020	186,89	162,99	349,87
11/08/2020	186,89	162,99	349,87
12/08/2020	186,89	162,99	349,87
13/08/2020	186,89	162,99	349,87
14/08/2020	186,89	162,99	349,87
15/08/2020	186,89	162,99	349,87
16/08/2020	186,89	162,99	349,87
17/08/2020	186,89	162,99	349,87
18/08/2020	186,89	162,99	349,87
19/08/2020	186,89	162,99	349,87
20/08/2020	127,49	113,49	240,98
21/08/2020	127,49	113,49	240,98
22/08/2020	127,49	113,49	240,98
23/08/2020	127,49	113,49	240,98
24/08/2020	127,49	113,49	240,98
25/08/2020	68,09	63,99	132,09
26/08/2020	68,09	63,99	132,09
27/08/2020	68,09	63,99	132,09
28/08/2020	68,09	63,99	132,09
29/08/2020	68,09	63,99	132,09
30/08/2020	0,00	0,00	0,00
31/08/2020	0,00	0,00	0,00

i. Data Beban Kandang pada bulan September Tahun 2020 (KW)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/09/2020	0,00	0,00	0,00
02/09/2020	0,00	0,00	0,00
03/09/2020	0,00	0,00	0,00
04/09/2020	0,00	0,00	0,00
05/09/2020	0,00	0,00	0,00
06/09/2020	0,00	0,00	0,00
07/09/2020	0,00	0,00	0,00
08/09/2020	0,00	0,00	0,00
09/09/2020	0,00	0,00	0,00
10/09/2020	0,00	0,00	0,00
11/09/2020	0,00	0,00	0,00
12/09/2020	0,00	0,00	0,00
13/09/2020	68,09	14,49	82,59
14/09/2020	68,09	14,49	82,59
15/09/2020	68,09	14,49	82,59
16/09/2020	68,09	14,49	82,59
17/09/2020	68,09	14,49	82,59
18/09/2020	68,09	14,49	82,59
19/09/2020	68,09	14,49	82,59
20/09/2020	97,79	14,49	112,29
21/09/2020	97,79	63,99	161,78
22/09/2020	97,79	63,99	161,78
23/09/2020	97,79	63,99	161,78
24/09/2020	97,79	63,99	161,78
25/09/2020	97,79	63,99	161,78
26/09/2020	97,79	63,99	161,78
27/09/2020	127,49	63,99	191,48
28/09/2020	127,49	63,99	191,48
29/09/2020	127,49	113,49	240,98
30/09/2020	127,49	113,49	240,98

j. Data Beban Kandang pada bulan Oktober Tahun 2020 (KW)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/10/2020	127,49	113,49	240,98
02/10/2020	127,49	113,49	240,98
03/10/2020	127,49	113,49	240,98
04/10/2020	157,19	113,49	270,68
05/10/2020	157,19	113,49	270,68
06/10/2020	157,19	113,49	270,68
07/10/2020	157,19	162,99	320,17
08/10/2020	157,19	162,99	320,17
09/10/2020	157,19	162,99	320,17
10/10/2020	157,19	162,99	320,17
11/10/2020	186,89	162,99	349,87
12/10/2020	186,89	162,99	349,87
13/10/2020	186,89	162,99	349,87
14/10/2020	186,89	162,99	349,87
15/10/2020	186,89	162,99	349,87
16/10/2020	186,89	162,99	349,87
17/10/2020	186,89	162,99	349,87
18/10/2020	186,89	162,99	349,87
19/10/2020	186,89	162,99	349,87
20/10/2020	186,89	162,99	349,87
21/10/2020	186,89	162,99	349,87
22/10/2020	186,89	162,99	349,87
23/10/2020	127,49	113,49	240,98
24/10/2020	127,49	113,49	240,98
25/10/2020	127,49	113,49	240,98
26/10/2020	127,49	113,49	240,98
27/10/2020	127,49	113,49	240,98
28/10/2020	68,09	63,99	132,09
29/10/2020	68,09	63,99	132,09
30/10/2020	68,09	63,99	132,09
31/10/2020	68,09	63,99	132,09

k. Data Beban Kandang pada bulan November Tahun 2020 (KW)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/11/2020	68,09	63,99	132,09
02/11/2020	0,00	0,00	0,00
03/11/2020	0,00	0,00	0,00
04/11/2020	0,00	0,00	0,00
05/11/2020	0,00	0,00	0,00
06/11/2020	0,00	0,00	0,00
07/11/2020	0,00	0,00	0,00
08/11/2020	0,00	0,00	0,00
09/11/2020	0,00	0,00	0,00
10/11/2020	0,00	0,00	0,00
11/11/2020	0,00	0,00	0,00
12/11/2020	0,00	0,00	0,00
13/11/2020	0,00	0,00	0,00
14/11/2020	0,00	0,00	0,00
15/11/2020	0,00	0,00	0,00
16/11/2020	68,09	14,49	82,59
17/11/2020	68,09	14,49	82,59
18/11/2020	68,09	14,49	82,59
19/11/2020	68,09	14,49	82,59
20/11/2020	68,09	14,49	82,59
21/11/2020	68,09	14,49	82,59
22/11/2020	68,09	14,49	82,59
23/11/2020	97,79	14,49	112,29
24/11/2020	97,79	63,99	161,78
25/11/2020	97,79	63,99	161,78
26/11/2020	97,79	63,99	161,78
27/11/2020	97,79	63,99	161,78
28/11/2020	97,79	63,99	161,78
29/11/2020	97,79	63,99	161,78
30/11/2020	127,49	63,99	191,48

i. Data Beban Kandang pada bulan Desember Tahun 2020 (KWh)

Tanggal	Beban Puncak	Beban Non Puncak	Total
01/12/2020	127,49	63,99	191,48
02/12/2020	127,49	113,49	240,98
03/12/2020	127,49	113,49	240,98
04/12/2020	127,49	113,49	240,98
05/12/2020	127,49	113,49	240,98
06/12/2020	127,49	113,49	240,98
07/12/2020	157,19	113,49	270,68
08/12/2020	157,19	113,49	270,68
09/12/2020	157,19	113,49	270,68
10/12/2020	157,19	162,99	320,17
11/12/2020	157,19	162,99	320,17
12/12/2020	157,19	162,99	320,17
13/12/2020	157,19	162,99	320,17
14/12/2020	186,89	162,99	349,87
15/12/2020	186,89	162,99	349,87
16/12/2020	186,89	162,99	349,87
17/12/2020	186,89	162,99	349,87
18/12/2020	186,89	162,99	349,87
19/12/2020	186,89	162,99	349,87
20/12/2020	186,89	162,99	349,87
21/12/2020	186,89	162,99	349,87
22/12/2020	186,89	162,99	349,87
23/12/2020	186,89	162,99	349,87
24/12/2020	186,89	162,99	349,87
25/12/2020	186,89	162,99	349,87
26/12/2020	127,49	113,49	240,98
27/12/2020	127,49	113,49	240,98
28/12/2020	127,49	113,49	240,98
29/12/2020	127,49	113,49	240,98
30/12/2020	127,49	113,49	240,98
31/12/2020	68,09	63,99	132,09

Lampiran 2. Hasil Energi Listrik dari PLTS

a. Hasil Perhitungan Energi Listrik Bulan Januari 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/01/2020	3,17	113,38
02/01/2020	2,90	103,73
03/01/2020	2,81	100,51
04/01/2020	1,41	50,43
05/01/2020	2,05	73,32
06/01/2020	2,68	95,86
07/01/2020	2,88	103,01
08/01/2020	2,83	101,22
09/01/2020	1,31	46,86
10/01/2020	2,99	106,95
11/01/2020	1,60	57,23
12/01/2020	6,76	241,79
13/01/2020	4,95	177,05
14/01/2020	6,33	226,41
15/01/2020	5,30	189,57
16/01/2020	5,75	205,67
17/01/2020	6,82	243,94
18/01/2020	6,75	241,43
19/01/2020	7,05	252,16
20/01/2020	5,36	191,72
21/01/2020	4,90	175,26
22/01/2020	7,11	254,31
23/01/2020	6,62	236,78
24/01/2020	3,47	124,11
25/01/2020	4,29	153,44
26/01/2020	6,58	235,35
27/01/2020	5,86	209,60
28/01/2020	5,88	210,32
29/01/2020	6,31	225,70
30/01/2020	4,94	176,69
31/01/2020	2,70	96,57
Total	140,36	5020,39

b. Hasil Perhitungan Energi Listrik Bulan Februari 2018

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/02/2020	6,48	231,78
02/02/2020	3,79	135,56
03/02/2020	3,72	133,06
04/02/2020	5,22	186,71
05/02/2020	4,29	153,44
06/02/2020	5,53	197,80
07/02/2020	0,89	31,83
08/02/2020	4,61	164,89
09/02/2020	3,52	125,90
10/02/2020	6,65	237,86
11/02/2020	3,36	120,18
12/02/2020	3,31	118,39
13/02/2020	4,48	160,24
14/02/2020	7,06	252,52
15/02/2020	4,69	167,75
16/02/2020	5,81	207,81
17/02/2020	3,00	107,30
18/02/2020	3,79	135,56
19/02/2020	4,27	152,73
20/02/2020	3,84	137,35
21/02/2020	4,80	171,69
22/02/2020	6,73	240,72
23/02/2020	4,06	145,22
24/02/2020	1,11	39,70
25/02/2020	6,30	225,34
26/02/2020	4,24	151,66
27/02/2020	3,31	118,39
28/02/2020	5,28	188,85
29/02/2020	4,12	147,36
Total	128,26	4440,24

c. Hasil Perhitungan Energi Listrik Bulan Maret 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/03/2020	0,89	31,83
02/03/2020	5,98	213,89
03/03/2020	6,02	215,32
04/03/2020	4,81	172,04
05/03/2020	4,15	148,44
06/03/2020	4,18	149,51
07/03/2020	5,99	214,25
08/03/2020	5,59	199,94
09/03/2020	5,79	207,10
10/03/2020	5,22	186,71
11/03/2020	6,67	238,57
12/03/2020	6,41	229,27
13/03/2020	6,88	246,08
14/03/2020	4,48	160,24
15/03/2020	5,72	204,59
16/03/2020	6,63	237,14
17/03/2020	5,74	205,31
18/03/2020	5,23	187,07
19/03/2020	3,83	136,99
20/03/2020	6,12	218,90
21/03/2020	5,01	179,20
22/03/2020	6,20	221,76
23/03/2020	5,79	207,10
24/03/2020	4,16	148,79
25/03/2020	6,32	226,05
26/03/2020	6,21	222,12
27/03/2020	6,04	216,04
28/03/2020	0,00	0,00
29/03/2020	2,48	88,70
30/03/2020	4,09	146,29
31/03/2020	4,52	161,67
Total	157,15	5620,94

b. Hasil Perhitungan Energi Listrik Bulan April 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/04/2020	3,57	127,69
02/04/2020	5,14	183,85
03/04/2020	5,40	193,15
04/04/2020	6,21	222,12
05/04/2020	5,11	182,77
06/04/2020	3,52	125,90
07/04/2020	2,82	100,87
08/04/2020	4,52	161,67
09/04/2020	6,53	233,56
10/04/2020	6,29	224,98
11/04/2020	6,16	220,33
12/04/2020	5,93	212,10
13/04/2020	5,79	207,10
14/04/2020	6,07	217,11
15/04/2020	4,10	146,65
16/04/2020	4,84	173,12
17/04/2020	4,96	177,41
18/04/2020	4,92	175,98
19/04/2020	5,86	209,60
20/04/2020	5,82	208,17
21/04/2020	5,68	203,16
22/04/2020	6,19	221,40
23/04/2020	4,86	173,83
24/04/2020	6,27	224,27
25/04/2020	2,49	89,06
26/04/2020	2,76	98,72
27/04/2020	5,25	187,78
28/04/2020	2,09	74,76
29/04/2020	4,11	147,01
30/04/2020	5,18	185,28
Total	148,44	5309,40

c. Hasil Perhitungan Energi Listrik Bulan Mei 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/05/2020	4,99	178,48
02/05/2020	2,90	103,73
03/05/2020	5,28	188,85
04/05/2020	5,63	201,37
05/05/2020	5,57	199,23
06/05/2020	5,43	194,22
07/05/2020	5,93	212,10
08/05/2020	5,61	200,66
09/05/2020	3,22	115,17
10/05/2020	4,15	148,44
11/05/2020	4,46	159,53
12/05/2020	5,22	186,71
13/05/2020	5,49	196,37
14/05/2020	4,29	153,44
15/05/2020	5,08	181,70
16/05/2020	5,68	203,16
17/05/2020	4,95	177,05
18/05/2020	2,06	73,68
19/05/2020	4,78	170,97
20/05/2020	5,43	194,22
21/05/2020	4,71	168,47
22/05/2020	5,38	192,43
23/05/2020	5,40	193,15
24/05/2020	5,62	201,02
25/05/2020	5,43	194,22
26/05/2020	3,34	119,47
27/05/2020	4,65	166,32
28/05/2020	1,53	54,73
29/05/2020	5,26	188,14
30/05/2020	5,56	198,87
31/05/2020	4,57	163,46
Total	147,60	5279,35

d. Hasil Perhitungan Energi Listrik Bulan Juni 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/06/2020	2,26	80,84
02/06/2020	3,38	120,90
03/06/2020	2,96	105,87
04/06/2020	5,65	202,09
05/06/2020	5,64	201,73
06/06/2020	4,89	174,91
07/06/2020	4,83	172,76
08/06/2020	5,48	196,01
09/06/2020	5,35	191,36
10/06/2020	5,18	185,28
11/06/2020	5,56	198,87
12/06/2020	5,57	199,23
13/06/2020	5,58	199,59
14/06/2020	4,41	157,74
15/06/2020	5,40	193,15
16/06/2020	5,14	183,85
17/06/2020	5,43	194,22
18/06/2020	5,19	185,64
19/06/2020	4,64	165,96
20/06/2020	4,25	152,01
21/06/2020	4,03	144,14
22/06/2020	4,14	148,08
23/06/2020	5,29	189,21
24/06/2020	5,40	193,15
25/06/2020	5,26	188,14
26/06/2020	5,40	193,15
27/06/2020	5,55	198,51
28/06/2020	5,54	198,15
29/06/2020	5,44	194,58
30/06/2020	5,57	199,23
Total	148,41	5308,33

e. Hasil Perhitungan Energi Listrik Bulan Juli 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/07/2020	5,44	194,58
02/07/2020	5,48	196,01
03/07/2020	5,19	185,64
04/07/2020	5,59	199,94
05/07/2020	5,34	191,00
06/07/2020	3,82	136,63
07/07/2020	5,43	194,22
08/07/2020	5,54	198,15
09/07/2020	4,53	162,03
10/07/2020	5,24	187,42
11/07/2020	5,36	191,72
12/07/2020	5,43	194,22
13/07/2020	4,49	160,60
14/07/2020	5,14	183,85
15/07/2020	2,61	93,35
16/07/2020	5,41	193,50
17/07/2020	5,67	202,80
18/07/2020	5,67	202,80
19/07/2020	5,66	202,45
20/07/2020	5,60	200,30
21/07/2020	5,52	197,44
22/07/2020	5,75	205,67
23/07/2020	5,58	199,59
24/07/2020	5,66	202,45
25/07/2020	5,85	209,24
26/07/2020	5,56	198,87
27/07/2020	5,89	210,67
28/07/2020	5,89	210,67
29/07/2020	5,96	213,18
30/07/2020	6,08	217,47
31/07/2020	6,00	214,61
Total	166,38	5951,08

f. Hasil Perhitungan Energi Listrik Bulan Agustus 2020

Tanggal	Radiasi Matahari (kWh/m²/hari)	Energi Listrik PLTS (kWh)
01/08/2020	5,80	207,45
02/08/2020	5,86	209,60
03/08/2020	5,84	208,89
04/08/2020	4,25	152,01
05/08/2020	5,61	200,66
06/08/2020	5,85	209,24
07/08/2020	5,42	193,86
08/08/2020	5,92	211,75
09/08/2020	5,98	213,89
10/08/2020	5,78	206,74
11/08/2020	5,73	204,95
12/08/2020	5,66	202,45
13/08/2020	5,47	195,65
14/08/2020	6,03	215,68
15/08/2020	6,00	214,61
16/08/2020	6,11	218,54
17/08/2020	5,95	212,82
18/08/2020	6,15	219,97
19/08/2020	6,22	222,48
20/08/2020	6,28	224,62
21/08/2020	6,28	224,62
22/08/2020	6,26	223,91
23/08/2020	6,34	226,77
24/08/2020	6,45	230,70
25/08/2020	6,50	232,49
26/08/2020	6,49	232,13
27/08/2020	6,49	232,13
28/08/2020	6,39	228,56
29/08/2020	6,38	228,20
30/08/2020	0,00	0,00
31/08/2020	6,47	231,42
Total	179,96	6436,80

I. Hasil Perhitungan Energi Listrik Bulan September 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/09/2020	6,30	225,34
02/09/2020	6,03	215,68
03/09/2020	6,09	217,83
04/09/2020	6,31	225,70
05/09/2020	6,36	227,48
06/09/2020	6,39	228,56
07/09/2020	6,02	215,32
08/09/2020	6,43	229,99
09/09/2020	6,23	222,83
10/09/2020	6,31	225,70
11/09/2020	6,17	220,69
12/09/2020	6,52	233,21
13/09/2020	6,34	226,77
14/09/2020	6,44	230,35
15/09/2020	0,00	0,00
16/09/2020	6,50	232,49
17/09/2020	6,68	238,93
18/09/2020	6,64	237,50
19/09/2020	6,58	235,35
20/09/2020	6,37	227,84
21/09/2020	5,38	192,43
22/09/2020	6,51	232,85
23/09/2020	6,42	229,63
24/09/2020	6,61	236,43
25/09/2020	6,20	221,76
26/09/2020	6,66	238,21
27/09/2020	6,27	224,27
28/09/2020	5,05	180,63
29/09/2020	6,67	238,57
30/09/2020	5,73	204,95
Total	182,21	6517,28

j. Hasil Perhitungan Energi Listrik Bulan Oktober 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/10/2020	6,67	238,57
02/10/2020	6,67	238,57
03/10/2020	6,62	236,78
04/10/2020	5,34	191,00
05/10/2020	5,74	205,31
06/10/2020	0,00	0,00
07/10/2020	6,12	218,90
08/10/2020	6,08	217,47
09/10/2020	4,77	170,61
10/10/2020	4,62	165,25
11/10/2020	5,99	214,25
12/10/2020	6,12	218,90
13/10/2020	6,59	235,71
14/10/2020	6,53	233,56
15/10/2020	4,98	178,12
16/10/2020	4,46	159,53
17/10/2020	6,36	227,48
18/10/2020	3,71	132,70
19/10/2020	1,39	49,72
20/10/2020	5,56	198,87
21/10/2020	3,00	107,30
22/10/2020	5,74	205,31
23/10/2020	5,85	209,24
24/10/2020	6,19	221,40
25/10/2020	5,21	186,35
26/10/2020	3,94	140,93
27/10/2020	4,74	169,54
28/10/2020	6,64	237,50
29/10/2020	5,81	207,81
30/10/2020	4,69	167,75
31/10/2020	4,02	143,79
Total	160,15	5728,24

k. Hasil Perhitungan Energi Listrik Bulan November 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/11/2020	4,18	149,51
02/11/2020	3,79	135,56
03/11/2020	4,90	175,26
04/11/2020	5,38	192,43
05/11/2020	4,81	172,04
06/11/2020	5,90	211,03
07/11/2020	0,00	0,00
08/11/2020	6,08	217,47
09/11/2020	6,22	222,48
10/11/2020	6,63	237,14
11/11/2020	6,79	242,86
12/11/2020	5,56	198,87
13/11/2020	6,30	225,34
14/11/2020	5,99	214,25
15/11/2020	5,94	212,46
16/11/2020	5,08	181,70
17/11/2020	6,10	218,18
18/11/2020	6,20	221,76
19/11/2020	5,11	182,77
20/11/2020	6,30	225,34
21/11/2020	4,27	152,73
22/11/2020	5,03	179,91
23/11/2020	2,97	106,23
24/11/2020	3,35	119,82
25/11/2020	3,72	133,06
26/11/2020	4,38	156,66
27/11/2020	3,29	117,68
28/11/2020	4,29	153,44
29/11/2020	3,58	128,05
30/11/2020	3,58	128,05
Total	145,72	5212,11

1. Hasil Perhitungan Energi Listrik Bulan Desember 2020

Tanggal	Radiasi Matahari (kWh/m ² /hari)	Energi Listrik PLTS (kWh)
01/12/2020	6,38	228,20
02/12/2020	3,44	123,04
03/12/2020	3,46	123,76
04/12/2020	5,13	183,49
05/12/2020	3,00	107,30
06/12/2020	0,98	35,05
07/12/2020	0,78	27,90
08/12/2020	3,17	113,38
09/12/2020	1,81	64,74
10/12/2020	2,72	97,29
11/12/2020	3,01	107,66
12/12/2020	3,09	110,52
13/12/2020	1,37	49,00
14/12/2020	4,73	169,18
15/12/2020	3,75	134,13
16/12/2020	4,32	154,52
17/12/2020	2,78	99,43
18/12/2020	2,52	90,14
19/12/2020	5,61	200,66
20/12/2020	6,72	240,36
21/12/2020	4,99	178,48
22/12/2020	3,78	135,20
23/12/2020	5,63	201,37
24/12/2020	6,11	218,54
25/12/2020	6,52	233,21
26/12/2020	3,92	140,21
27/12/2020	5,13	183,49
28/12/2020	5,29	189,21
29/12/2020	3,88	138,78
30/12/2020	3,17	113,38
31/12/2020	4,49	160,60
Total	121,68	4352,25

Lampiran 3. Hasil simulasi PVSyst



PVSyst v7.1.1
Simulation date:
01/03/21 20:54
with v7.1.1

Project: PLTS Peternakan Ayam

Variant: 42,8 kWp

Project summary

Geographical Site	Situation	Project settings
Krajan Tiga	Latitude -6.52 °S	Albedo 0.20
Indonesia	Longitude 110.70 °E	
	Altitude 12 m	
	Time zone UTC+7	
Meteo data		
Krajan Tiga		
NASA-SSE satellite data 1983-2005 (modified by user) - Synthetic		

System summary

Grid-Connected System	No 3D scene defined, no shadings	
PV Field Orientation	Near Shadings	User's needs
Fixed plane	No Shadings	Unlimited load (grid)
Tilt/Azimuth 34 / 0 °		
System information		
PV Array	Inverters	
Nb. of modules 96 units	Nb. of units 4 units	
Pnom total 43.2 kWp	Pnom total 40.0 kWac	
	Pnom ratio 1.080	

Results summary

Produced Energy 64.31 MWh/year	Specific production 1489 kWh/kWp/year	Perf. Ratio PR 83.82 %
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General parameters, PV Array Characteristics, System losses	3
Main results	4
Loss diagram	5
Special graphs	6



PVsyst V7.1.1
Simulation date:
01/03/21 20:54
with v7.1.1

Project: PLTS Peternakan Ayam

Variant: 42,8 KWp

General parameters

Grid-Connected System	No 3D scene defined, no shadings	
PV Field Orientation	Models used	Horizon
Orientation	Transposition	Free Horizon
Fixed plane	Perez	
Tilt/Azimuth	Diffuse Perez, Meteonorm	
	Circumsolar separate	
Near Shadings	User's needs	
No Shadings	Unlimited load (grid)	

PV Array Characteristics

PV module		Inverter	
Manufacturer	Astronergy	Manufacturer	Solaxpower
Model	CHSM72M-DG-F-BH-450-Bifacial	Model	X3-MIC PRO-10.0kW with 2 MPPT
(Original PVsyst database)		(Original PVsyst database)	
Unit Nom. Power	450 Wp	Unit Nom. Power	10.00 kWac
Number of PV modules	96 units	Number of inverters	3 * MPPT 50% 4 units
Nominal (STC)	43.2 kWp	Total power	40.0 kWac
Modules	8 Strings x 12 In series	Operating voltage	160-850 V
At operating cond. (50°C)		Pnom ratio (DC:AC)	1.08
Pmpp	39.4 kWp	Total inverter power	
U mpp	455 V	Total power	40 kWac
I mpp	87 A	Nb. of inverters	4 units
Total PV power		Pnom ratio	1.08
Nominal (STC)	43 kWp		
Total	96 modules		
Module area	215 m ²		

Array losses

Thermal Loss factor		DC wiring losses		Module Quality Loss				
Module temperature according to irradiance		Global array res.	87 mΩ	Loss Fraction	-0.8 %			
Uc (const)	20.0 W/m ² K	Loss Fraction	1.5 % at STC					
Uv (wind)	0.0 W/m ² K/m/s							
Module mismatch losses		Strings Mismatch loss						
Loss Fraction	2.0 % at MPP	Loss Fraction	0.1 %					
IAM loss factor								
Incidence effect (IAM): Fresnel smooth glass, n = 1.526								
0°	30°	50°	60°	70°	75°	80°	85°	90°
1.000	0.998	0.981	0.948	0.862	0.776	0.636	0.403	0.000



Project: PLTS Peternakan Ayam

Variante: 42,8 KWp

PVsyst V7.1.1
Simulation date:
01/03/21 20:54
with v7.1.1

Main results

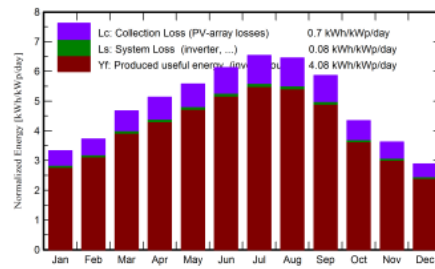
System Production

Produced Energy 64.31 MWh/year

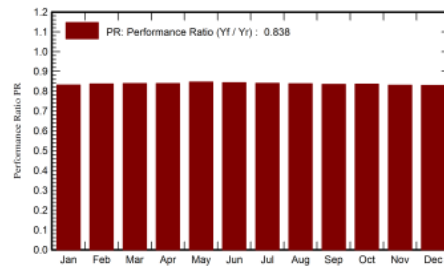
Specific production
Performance Ratio PR

1489 kWh/kWp/year
83.82 %

Normalized productions (per installed kWp)



Performance Ratio PR



Balances and main results

	GlobHor kWh/m ²	DiffHor kWh/m ²	T_Amb °C	GlobInc kWh/m ²	GlobEff kWh/m ²	EArray MWh	E_Grid MWh	PR ratio
January	140.4	70.40	25.81	103.4	97.8	3.808	3.718	0.832
February	128.3	65.50	25.77	104.4	99.9	3.866	3.778	0.837
March	157.2	69.40	25.87	144.9	140.3	5.364	5.254	0.839
April	148.4	57.60	26.03	154.1	150.3	5.700	5.586	0.839
May	147.6	48.70	25.94	173.1	169.8	6.451	6.328	0.846
June	148.4	43.20	25.62	183.9	180.9	6.833	6.704	0.844
July	166.4	41.50	25.36	202.8	199.3	7.500	7.359	0.840
August	180.0	43.40	25.65	200.2	196.1	7.387	7.248	0.838
September	182.2	49.50	26.09	176.1	171.1	6.473	6.351	0.835
October	160.2	62.90	26.20	134.6	129.2	4.966	4.864	0.836
November	145.7	66.90	25.94	108.8	102.9	3.995	3.904	0.831
December	121.7	70.40	25.78	89.6	84.5	3.295	3.211	0.830
Year	1826.5	689.40	25.84	1775.9	1722.2	65.637	64.306	0.838

Legends

- GlobHor Global horizontal irradiation
- DiffHor Horizontal diffuse irradiation
- T_Amb Ambient Temperature
- GlobInc Global incident in coll. plane
- GlobEff Effective Global, corr. for IAM and shadings
- EArray Effective energy at the output of the array
- E_Grid Energy injected into grid
- PR Performance Ratio