

Rumah 2

Jam pemakaian	Lampu 1 10 w	Lampu 2 18	Lampu 3 20 w	Tv 120w	radio 70 w	Setrika 300 w	Pompa air 125 w	Rice cooker 150 w	Lemari es 125 w	Jumlah
00.00-01.00	2x10	1x18							1x60	98
01.00-02.00	2x10	1x18							1x60	98
02.00-03.00	2x10	1x18							1x60	98
03.00-04.00	2x10	1x18							1x60	98
04.00-05.00	2x10	2x18	2x20						1x60	156
05.00-06.00	2x10	2x18	2x20				1x125	1x150	1x125	496
06.00-07.00								1x80	1x125	205
07.00-08.00								1x80	1x60	140
08.00-09.00								1x80	1x60	140
09.00-10.00				1x120				1x80	1x60	260
10.00-11.00				1x120				1x80	1x60	260
11.00-12.00								1x80	1x60	140
12.00-13.00				1x120				1x80	1x60	260
13.00-14.00				1x120				1x80	1x60	260
14.00-15.00				1x120				1x80	1x125	325
15.00-16.00					1x70	1x300		1x80	1x125	575
16.00-17.00					1x70	1x300			1x60	430
17.00-18.00	4x10	5x18	3x20				1x125		1x60	375
18.00-19.00	4x10	5x18	3x20	1x120					1x60	370
19.00-20.00	4x10	5x18	3x20	1x120					1x60	370
20.00-21.00	4x10	5x18	3x20	1x120					1x60	370
21.00-22.00	2x10	1x18		1x120					1x60	218
22.00-23.00	2x10	1x18							1x60	98
23.00-00.00	2x10	1x18							1x60	98

Rumah 4

Jam pemakaian	Lampu 1	Lampu 2	Lampu 3	Tv	radio	Setrika	Pompa air	Rice cooker	Lemari es	Jumlah
	10 w	18	20 w	79w	70 w	350 w	150 w	300 w	125 w	
00.00-01.00	2x10	1x18							1x74	112
01.00-02.00	2x10	1x18							1x74	112
02.00-03.00	2x10	1x18							1x74	112
03.00-04.00	2x10	2x18							1x74	130
04.00-05.00	3x10	2x18	1x20						1x74	160
05.00-06.00	3x10	2x18	1x20				1x150	1x100	1x125	461
06.00-07.00		1x18						1x100	1x74	192
07.00-08.00						1x350		1x100	1x74	524
08.00-09.00						1x350		1x100	1x74	524
09.00-10.00									1x74	74
10.00-11.00									1x74	74
11.00-12.00									1x125	125
12.00-13.00				1x79					1x125	204
13.00-14.00									1x74	74
14.00-15.00									1x74	74
15.00-16.00					1x70				1x74	144
16.00-17.00				1x79			1x150	1x300	1x74	603
17.00-18.00	3x10	4x18	2x20					1x100	1x74	374
18.00-19.00	3x10	4x18	2x20	1x79				1x100	1x74	453
19.00-20.00	3x10	4x18	2x20	1x79				1x100	1x74	453
20.00-21.00	2x10	1x18		1x79					1x74	191
21.00-22.00	2x10	1x18							1x74	112
22.00-23.00	2x10	1x18							1x74	112
23.00-00.00	2x10	1x18							1x74	112

Rumah 5

Jam pemakaian	Lampu 1	Lampu 2	Lampu 3	Tv	radio	Setrika	Pompa air	Rice cooker	Lemari es	Jumlah
	10 w	18	20 w	120w	120 w	350 w	150 w	300 w	125 w	
00.00-01.00	2x10	1x18							1x50	88
01.00-02.00	2x10	1x18							1x50	88
02.00-03.00	2x10	1x18							1x50	88
03.00-04.00	2x10	2x18							1x50	106
04.00-05.00	2x10	2x18	1x20						1x50	126
05.00-06.00	2x10	2x18	1x20				1x150	1x300	1x50	576
06.00-07.00								1x100	1x125	225
07.00-08.00								1x100	1x125	225
08.00-09.00								1x100	1x50	150
09.00-10.00								1x100	1x50	150
10.00-11.00								1x100	1x50	150
11.00-12.00								1x100	1x50	150
12.00-13.00				1x120				1x100	1x125	345
13.00-14.00								1x100	1x125	225
14.00-15.00									1x50	50
15.00-16.00						1x350			1x50	400
16.00-17.00						1x350			1x50	400
17.00-18.00	3x10	3x18	2x20				1x150	1x300	1x50	624
18.00-19.00	3x10	3x18	2x20	1x120				1x100	1x50	394
19.00-20.00	3x10	3x18	2x20	1x120				1x100	1x50	394
20.00-21.00	3x10	3x18	2x20	1x120					1x50	294
21.00-22.00	2x10	1x18		1x120					1x50	208
22.00-23.00	2x10	1x18							1x50	88
23.00-00.00	2x10	1x18							1x50	88

Rumah 6

Jam pemakaian	Lampu 1 10 w	Lampu 2 18	Lampu 3 20 w	Tv 150w	radio 70 w	Setrika 350 w	Pompa air 125 w	Rice cooker 300 w	Lemari es 125 w	Jumlah
00.00-01.00	2x10	1x18							1x50	88
01.00-02.00	2x10	1x18							1x50	88
02.00-03.00	2x10	1x18							1x50	88
03.00-04.00	2x10	1x18							1x50	88
04.00-05.00	3x10	3x18	2x20						1x50	174
05.00-06.00	3x10	3x18	2x20				1x125	1x150	1x50	449
06.00-07.00								1x80	1x50	130
07.00-08.00								1x80	1x50	130
08.00-09.00								1x80	1x50	130
09.00-10.00								1x80	1x50	130
10.00-11.00								1x80	1x125	205
11.00-12.00								1x80	1x125	205
12.00-13.00				1x150				1x80	1x50	280
13.00-14.00									1x50	50
14.00-15.00									1x50	50
15.00-16.00									1x125	125
16.00-17.00								1x150	1x125	275
17.00-18.00	4x10	3x18	2x20				1x125	1x80	1x50	389
18.00-19.00	4x10	3x18	2x20	1x150		1x300		1x80	1x50	714
19.00-20.00	4x10	3x18	2x20	1x150		1x300		1x80	1x50	704
20.00-21.00	4x10	3x18	2x20	1x150					1x50	334
21.00-22.00	2x10	1x18							1x50	88
22.00-23.00	2x10	1x18							1x50	88
23.00-00.00	2x10	1x18							1x50	88

Rumah 7

Jam pemakaian	Lampu 1 10 w	Lampu 2 18	Lampu 3 20 w	Tv 120w	radio 70 w	Setrika 300 w	Pompa air 125 w	Rice cooker 150 w	Lemari es 125 w	Jumlah
00.00-01.00	2x10	1x18							1x50	88
01.00-02.00	2x10	1x18							1x50	88
02.00-03.00	2x10	1x18							1x50	88
03.00-04.00	2x10	1x18							1x50	88
04.00-05.00	3x10	3x18	1x20						1x50	154
05.00-06.00	3x10	3x18	1x20				1x125	1x150	1x50	429
06.00-07.00								1x80	1x50	130
07.00-08.00								1x80	1x125	205
08.00-09.00								1x80	1x125	205
09.00-10.00								1x80	1x50	130
10.00-11.00								1x80	1x50	130
11.00-12.00								1x80	1x50	130
12.00-13.00				1x120				1x80	1x50	250
13.00-14.00				1x120					1x50	170
14.00-15.00									1x50	50
15.00-16.00					1x70	1x300			1x125	495
16.00-17.00					1x70	1x300			1x125	495
17.00-18.00	4x10	5x18	3x20				1x125	1x150	1x50	515
18.00-19.00	4x10	5x18	3x20	1x120				1x80	1x50	440
19.00-20.00	4x10	5x18	3x20	1x120				1x80	1x50	380
20.00-21.00	4x10	5x18	3x20	1x120					1x50	380
21.00-22.00	2x10	1x18		1x120					1x50	208
22.00-23.00	2x10	1x18							1x50	88
23.00-00.00	2x10	1x18							1x50	88

Rumah 8

Jam pemakaian	Lampu 1 10 w	Lampu 2 18	Lampu 3 20 w	Tv 150w	radio 70 w	Setrika 300 w	Pompa air 150 w	Rice cooker 150 w	Lemari es 125 w	Jumlah
00.00-01.00	2x10	1x18							1x74	112
01.00-02.00	2x10	1x18							1x74	112
02.00-03.00	2x10	1x18							1x74	112
03.00-04.00	2x10	1x18	1x20						1x74	132
04.00-05.00	4x10	3x18	1x20						1x74	188
05.00-06.00	4x10	3x18	1x20				1x150	1x150	1x74	488
06.00-07.00								1x80	1x74	154
07.00-08.00						1x300		1x80	1x74	454
08.00-09.00						1x300		1x80	1x125	505
09.00-10.00								1x80	1x125	205
10.00-11.00								1x80	1x74	154
11.00-12.00								1x80	1x74	154
12.00-13.00				1x150				1x80	1x74	304
13.00-14.00				1x150				1x80	1x74	304
14.00-15.00				1x150					1x74	224
15.00-16.00					1x70				1x125	195
16.00-17.00					1x70				1x125	195
17.00-18.00	4x10	3x18	3x20				1x150	1x150	1x74	528
18.00-19.00	4x10	3x18	3x20	1x150				1x80	1x74	458
19.00-20.00	4x10	3x18	3x20	1x150				1x80	1x74	458
20.00-21.00	4x10	3x18	3x20	1x150					1x74	378
21.00-22.00	2x10	1x18		1x150					1x74	262
22.00-23.00	2x10	1x18		1x150					1x74	262
23.00-00.00	2x10	1x18							1x74	112

Rumah 10

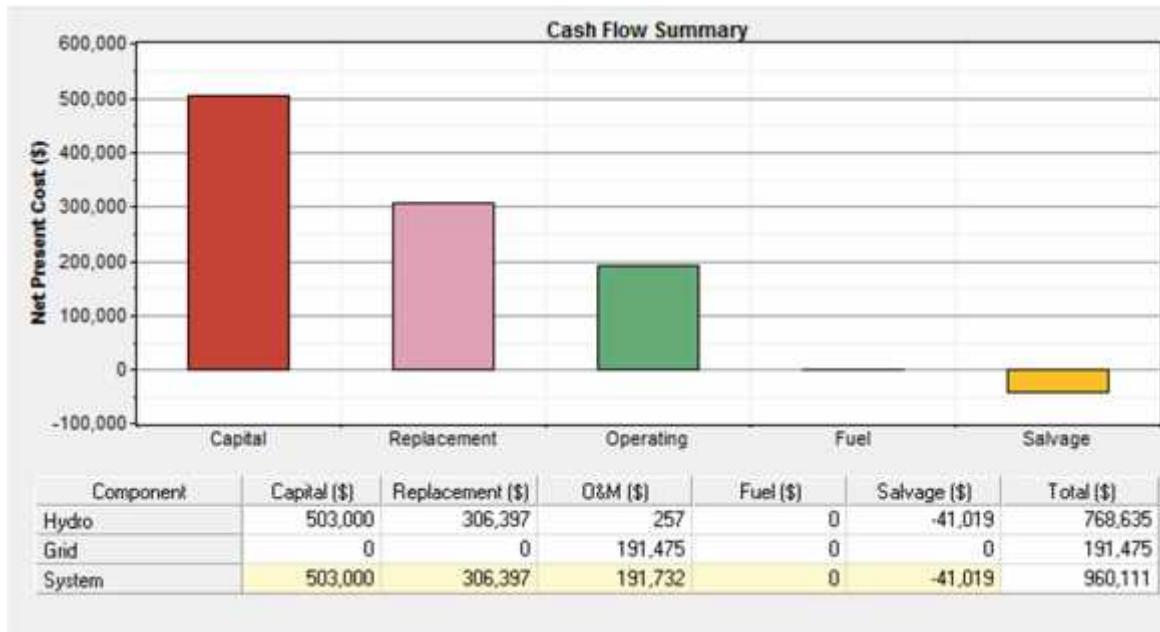
Jam pemakaian	Lampu 1 10 w	Lampu 2 18	Lampu 3 20 w	Tv 100w	radio 170 w	Setrika 350 w	Pompa air 125 w	Rice cooker 150 w	Lemari es 74 w	Jumlah
00.00-01.00	2x10	1x18							1x74	112
01.00-02.00	2x10	1x18							1x74	112
02.00-03.00	2x10	1x18							1x74	112
03.00-04.00	3x10	2x18	2x20						1x74	180
04.00-05.00	3x10	2x18	2x20						1x74	180
05.00-06.00		2x18					1x125	1x150	1x74	385
06.00-07.00								1x80	1x74	154
07.00-08.00								1x80	1x74	154
08.00-09.00						1x350		1x80	1x125	555
09.00-10.00						1x350		1x80	1x125	555
10.00-11.00								1x80	1x74	154
11.00-12.00								1x80	1x74	154
12.00-13.00								1x80	1x74	154
13.00-14.00								1x80	1x74	154
14.00-15.00				1x100				1x80	1x74	154
15.00-16.00				1x100	1x70			1x80	1x125	205
16.00-17.00					1x70			1x80	1x125	275
17.00-18.00	4x10	5x18	3x20				1x125	1x80	1x74	469
18.00-19.00	4x10	5x18	3x20	1x100					1x74	364
19.00-20.00	4x10	5x18	3x20	1x100					1x74	364
20.00-21.00	4x10	5x18	3x20	1x100					1x74	364
21.00-22.00	2x10	1x18		1x100					1x74	212
22.00-23.00	2x10	1x18		1x100					1x74	212
23.00-00.00	2x10	1x18							1x74	112

Jumlah 10 rumah

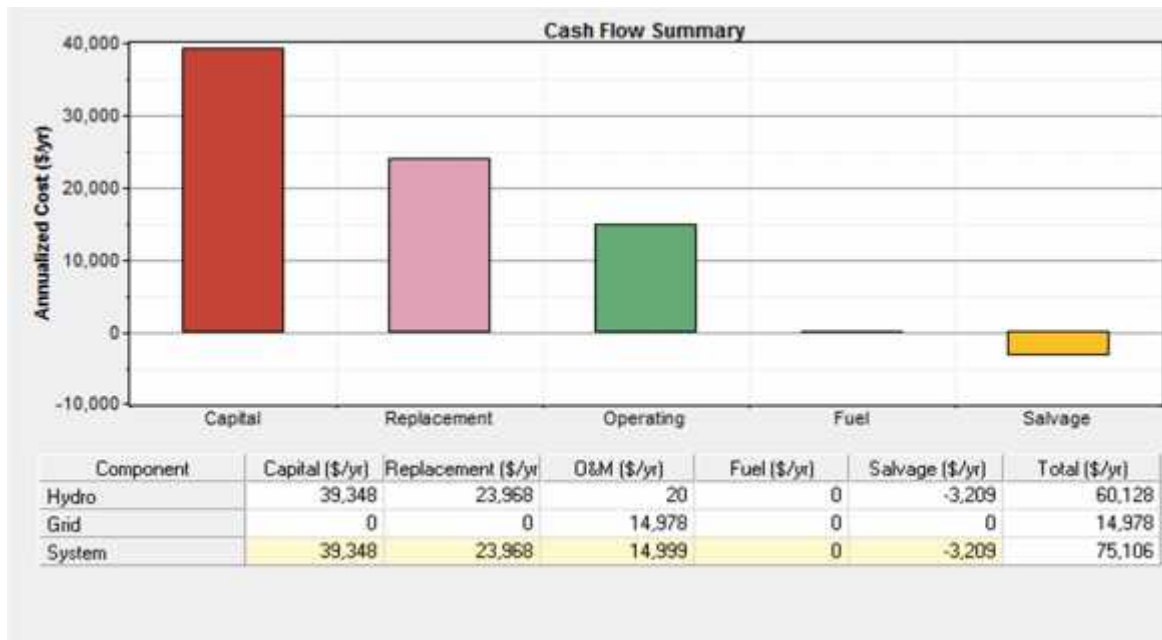
Jam pemakaian	Rumah 1	Rumah 2	Rumah 3	Rumah 4	Rumah 5	Rumah 6	Rumah 7	Rumah 8	Rumah 9	Rumah 10	Rata rata watt	Jumlah 100 rumah
00.00-01.00	38	98	20	112	88	88	88	112	78	112	83,4	8.430
01.00-02.00	38	98	20	112	88	88	88	112	78	112	83,4	8.430
02.00-03.00	38	98	20	112	88	88	88	112	78	112	83,4	8.430
03.00-04.00	48	98	48	130	106	88	88	132	136	180	105,4	10.540
04.00-05.00	48	156	66	160	126	174	154	188	146	180	139,8	13.980
05.00-06.00	517	496	226	461	576	449	429	488	571	385	459,8	45.980
06.00-07.00	80	205	80	192	225	130	130	154	140	154	149	14.900
07.00-08.00	380	140	80	524	225	130	205	454	140	154	243,2	24.320
08.00-09.00	380	140	430	524	150	130	205	505	215	555	323,4	32.340
09.00-10.00	200	260	430	74	150	130	130	205	215	555	234,9	23.490
10.00-11.00	200	260	80	74	150	205	130	154	140	154	154,7	15.470
11.00-12.00	80	140	80	125	150	205	130	154	140	154	135,8	13.580
12.00-13.00	200	260	80	204	345	280	250	304	140	154	221,7	22.170
13.00-14.00	200	260	200	74	225	50	170	304	140	154	177,7	17.770
14.00-15.00	120	325	200	74	50	50	50	224	140	154	138,7	13.870
15.00-16.00	70	575	70	144	400	125	495	195	515	205	279,4	27.940
16.00-17.00	70	430	70	603	400	275	495	195	515	275	332,8	33.280
17.00-18.00	465	375	130	374	624	389	515	528	455	469	432,4	43.240
18.00-19.00	390	370	250	453	394	714	440	458	450	364	428,3	42.830
19.00-20.00	390	370	250	453	394	704	380	458	450	364	421,3	42.130
20.00-21.00	310	370	250	191	294	334	380	378	450	364	332,5	33.250
21.00-22.00	158	218	158	112	208	88	208	262	258	212	188,2	11.820
22.00-23.00	38	98	38	112	88	88	88	262	78	212	110,2	11.020
23.00-00.00	38	98	38	112	88	88	88	112	78	112	95,2	9.520

JAM PEMAKAIAN	Total daya jumlah 100 rumah
00.00-01.00	8.430
01.00-02.00	8.430
02.00-03.00	8.430
03.00-04.00	10.540
04.00-05.00	13.980
05.00-06.00	45.980
06.00-07.00	14.900
07.00-08.00	24.320
08.00-09.00	32.340
09.00-10.00	23.490
10.00-11.00	15.470
11.00-12.00	13.580
12.00-13.00	22.170
13.00-14.00	17.770
14.00-15.00	13.870
15.00-16.00	27.940
16.00-17.00	33.280
17.00-18.00	43.240
18.00-19.00	42.830
19.00-20.00	42.130
20.00-21.00	33.250
21.00-22.00	11.820
22.00-23.00	11.020
23.00-00.00	9.520

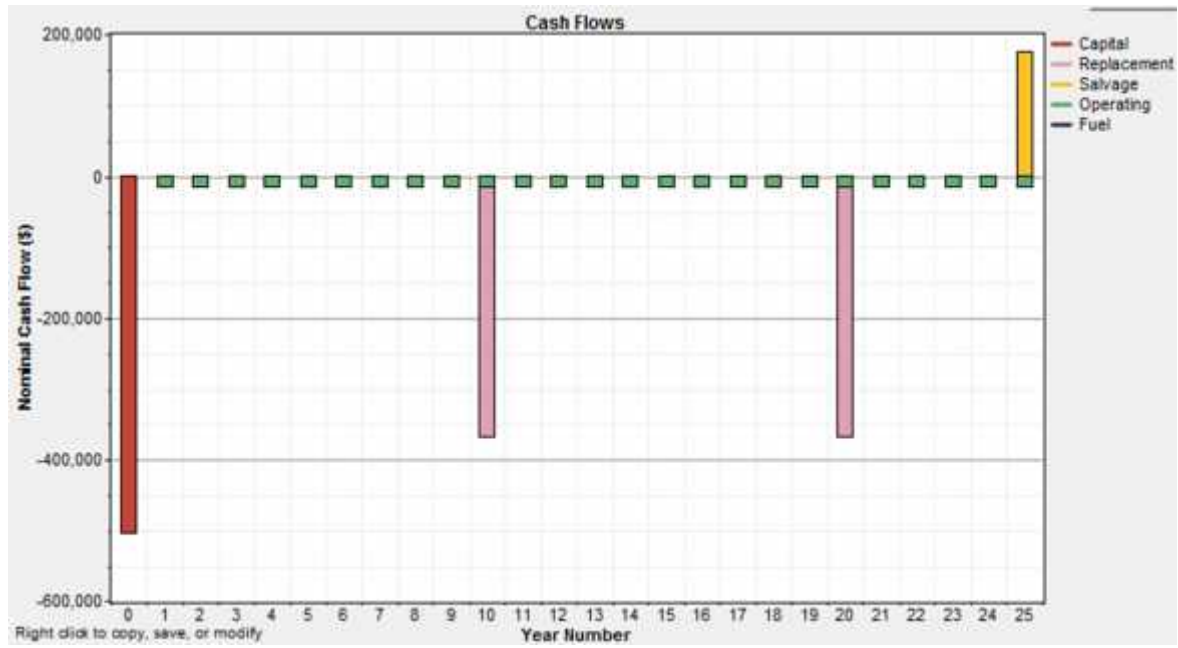
Net Present Cost



Annulized Cost



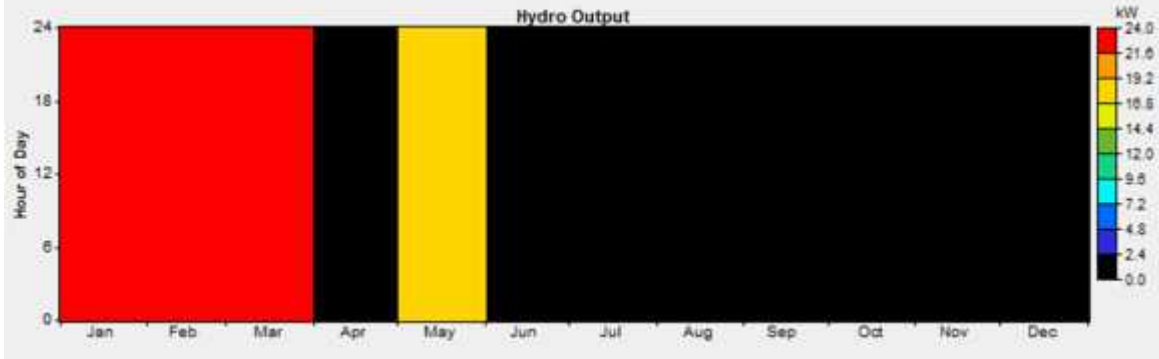
Nominal Cash Flow



Hydro

Quantity	Value	Units
Nominal capacity	23.5	kW
Mean output	7.0	kW
Capacity factor	29.7	%
Total production	61,161	kWh/yr

Quantity	Value	Units
Minimum output	0.0	kW
Maximum output	22.0	kW
Hydro penetration	32.0	%
Hours of operation	2,904	hr/yr
Levelized cost	0.983	\$/kWh



Grid

Month	Energy	Energy	Net	Peak	Energy	Demand
	Purchased	Sold	Purchases	Demand	Charge	Charge
	[kWh]	[kWh]	[kWh]	[kW]	(\$)	(\$)
Jan	4,120	4,399	-279	55	192	83
Feb	3,415	4,102	-686	50	136	76
Mar	4,478	4,091	387	67	243	100
Apr	15,788	0	15,788	70	1,579	106
May	5,100	2,918	2,182	52	364	79
Jun	15,907	0	15,907	74	1,591	111
Jul	16,119	0	16,119	70	1,612	105
Aug	17,040	0	17,040	68	1,704	102
Sep	16,007	0	16,007	67	1,601	100
Oct	16,031	0	16,031	71	1,603	106
Nov	15,377	0	15,377	73	1,538	110
Dec	16,227	0	16,227	78	1,623	117
Annual	145,609	15,510	130,098	78	13,785	1,193