

## DAFTAR PUSTAKA

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# LAMPIRAN





LAMPIRAN 2 (Data Jenis dan Bahan bakar Pembangkit)

UNIT CABANG/SEKTOR	PEMBANGKIT	Bahan bakar	DMN	TML KIT
UPDK BAKARU	BAKARU 1	HIDRO	63.00	27.00
UPDK BAKARU	BAKARU 2	HIDRO	63.00	27.00
UPDK BAKARU	PLTA BILI-BILI # 1	HIDRO	5.78	5.78
UPDK BAKARU	PLTA BILI-BILI # 2	HIDRO	13.69	13.69
UPDK BAKARU	PLTM SAWITTO	HIDRO	1.44	1.44
UPDK BAKARU	PLTM BALLA	HIDRO	0.70	0.70
UPDK BAKARU	PLTM KALUKU	HIDRO	1.40	1.40
UPDK BAKARU	PLTM BONEHAU	HIDRO	0	0
UPDK BAKARU	PLTM BUDONG	HIDRO	0	0
UPDK TELLO	PLTU BARRU 1	BATUBARA	50.00	20.00
UPDK TELLO	PLTU BARRU 2	BATUBARA	50.00	20.00
UPDK TELLO	G E 1	BBM	26	8
UPDK TELLO	G E 2	BBM	28	8
UPDK TELLO	mitsubishi 1	BBM	8	6
UPDK TELLO	mitsubishi 2	BBM	8	6
UPDK TELLO	S W D 1	BBM	8	6
UPDK TELLO	S W D 2	BBM	8	6
UPDK TELLO	CUM 5	BBM	1	1
UPK PUNAGAYA	PLTU PUNAGAYA 1	BATUBARA	100.00	60.00
UPK PUNAGAYA	PLTU PUNAGAYA 2	BATUBARA	100.00	60.00
UPDK KENDARI	PLTU NII TANASA #1	BATUBARA	10.00	6.00
UPDK KENDARI	PLTU NII TANASA #2	BATUBARA	10.00	6.00
UPDK KENDARI	PLTU NII TANASA #3	BATUBARA	0	0
UPDK KENDARI	NII TANASA #1	BBM	9.78	6
UPDK KENDARI	NII TANASA #2	BBM	9.78	6
UPDK KENDARI	NII TANASA #3	BBM	9.78	6
UPDK KENDARI	NII TANASA #4	BBM	9.78	6
UPDK KENDARI	NII TANASA #5	BBM	9.78	6
UPDK KENDARI	NII TANASA #6	BBM	9.78	6
UPDK KENDARI	PLTD WUAWUA	BBM	14.1	1
UPDK KENDARI	PLTD POASIA	BBM	9.6	1
UPDK KENDARI	PLTD LAMBUYA	BBM	3.15	1
UPDK KENDARI	PLTD LANIPA-NIPA	BBM	4.99	1
UPDK KENDARI	PLTM SABILAMBO	HIDRO	2	4.99
UPDK KENDARI	PLTM MIKUASI	HIDRO	0.45	2
UPDK GORONTALO	PLTD SILAE	BBM	24.2	0.45
IPP	PLTGU SKANG GT#11	GAS	42.50	7.50

IPP	PLTGU SKANG GT#12	GAS	42.50	7.50
IPP	PLTGU SKANG ST#18	GAS	50.00	18.00
IPP	PLTGU SKANG GT#21	GAS	60.00	15.00
IPP	PLTGU SKANG GT#22	GAS	60.00	15.00
IPP	PLTGU SKANG ST 28	GAS	60.00	15.00
IPP	PLTU JENEPONTO#1	BATUBARA	100.00	56.00
IPP	PLTU JENEPONTO#2	BATUBARA	100.00	56.00
IPP	PLTU JENEPONTO#3	BATUBARA	125.00	56.50
IPP	PLTU JENEPONTO#4	BATUBARA	125.00	56.50
IPP	PLTU MAMUJU #1	BATUBARA	25.00	12.50
IPP	PLTU MAMUJU #2	BATUBARA	25.00	12.50
IPP	PLTD SUPPA	BBM	62.2	8
IPP	PLTB SIDRAP	ANGIN	70	0
IPP	PLTB TOLO	ANGIN	60	0
IPP	PLTA POSO-1 #1	HIDRO	30.00	15.00
IPP	PLTA POSO-1 #2	HIDRO	30.00	15.00
IPP	PLTA POSO-1 #3	HIDRO	30.00	15.00
IPP	PLTA POSO-1 #4	HIDRO	30.00	15.00
IPP	PLTA POSO-2 #1	HIDRO	65.00	26.00
IPP	PLTA POSO-2 #2	HIDRO	65.00	26.00
IPP	PLTA POSO-2 #3	HIDRO	65.00	26.00
IPP	TAWAELI#1	BATUBARA	27	0
IPP	TAWAELI#2	BATUBARA	30	0
IPP	PLTU MORAMO #1	BATUBARA	50.00	30.00
IPP	PLTU MORAMO #2	BATUBARA	50.00	30.00
UIW SULSELRABAR	PLTA TANGKA MANIPI	HIDRO	10.00	2.00
UIW SULSELRABAR	PLTA MALEA	HIDRO	6.70	0.00
UIW SULSELRABAR	PLTM SIMBUANG	HIDRO	3.00	0.00
UIW SULSELRABAR	PLTM SITEBA	HIDRO	7.50	0.00
UIW SULSELRABAR	PLTM BUNGIN	HIDRO	3.00	0.00
UIW SULSELRABAR	PLTM TOMBOLO	HIDRO	2.00	0.00
UIW SULSELRABAR	PLTM SALUNOA	HIDRO	2.00	0.00
UIW	PLTM PONGBATIK	HIDRO	3.00	0.00

SULSELRABAR				
UIW SULSELRABAR	PLTM BANTAENG	HIDRO	4.70	0.00
UIW SULSELRABAR	PLTS PANGKEP	SURYA	1	0
UIW SULSELRABAR	PLTM RANTEBALLA	HIDRO	2.40	2.40
UIW SULUTTENGGO	PLTM BAMBALO	HIDRO	2.4	2.40
UIW SULUTTENGGO	PLTM SAWIDAGO	HIDRO	0.25	0.25
UIW SULUTTENGGO	PLTM TOMASA	HIDRO	10	0



LAMPIRAN 3 (WASP-IV)

Output Modul Loadsy:

WASP COMPUTER PROGRAM PACKAGE

LOADSY MODULE

CASE STUDY

Case 1

\* NUMBER OF PERIODS PER YEAR = 1 \*

\* HOURS IN EACH PERIOD = 8760.00 \*

\* NUMBER OF COEFFICIENTS OF COSINE TERMS \*

\* IN FOURIER APPROXIMATION OF THE L.D.C. = 50 \*

PEAK LOAD FOR YEAR \*\*\*\*\* 2021 \*\*\*\*\* IS : 1565.3 MW

NUMBER OF PERIODS FOR WHICH DATA FOLLOW : 1

INDEX OF PERIODS TO BE CHANGED : 1

PERIOD 1 : 48 POINTS

LD DUR

1.0000 0.0210

0.9940 0.0420

0.9740 0.0630

0.9650 0.0830

0.9550 0.1040

0.9480 0.1250

0.9210 0.1460

0.8960 0.1670

0.9720 0.1880

0.8680 0.2080

0.8680 0.2290

0.8670 0.2500

0.8650 0.2710

0.8580 0.9200

0.8530 0.3130

0.8420 0.3330

0.8320 0.3540

0.8290 0.3750

0.8270 0.3960

0.8250 0.4170

0.8240 0.4380

0.8230 0.4580

0.8230 0.4790

0.8180 0.5000

0.8100 0.5210

0.7900 0.5420

0.7880 0.5630

0.7730 0.5830

0.7560 0.6040

0.7510 0.6250

0.7330 0.6460

0.7050 0.6670

0.6930 0.6880

0.6770 0.7080

0.6660 0.7290

0.6610 0.7500

0.6610 0.7710  
0.6570 0.7920  
0.6530 0.8130  
0.6470 0.8330  
0.6470 0.8540  
0.6460 0.8750  
0.6430 0.8960  
0.6380 0.9170  
0.6350 0.9380  
0.6320 0.9580  
0.6300 0.9790  
0.6280 1.0000

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD :

1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 1565.3 MW    MINIMUM LOAD : 983.0 MW

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	11833.2	86.30
FOURIER SERIES :	11822.6	86.22

FOURIER COEFFICIENTS FOR INVERTED L.D.C. OF THE PERIOD :

CONSTANT TERM -AOO- IS : 1.0601876

COEFFICIENTS OF COSINE TERMS ARE :

0.6267313 -0.0578736 -0.1841828 0.0557874 0.0856235 -0.0524244 -0.0416022 0.0479833 0.0197526 -0.0427728  
-0.0097775 0.0371970 0.0059553 -0.0317019 -0.0043306 0.0266895 0.0023793 -0.0224264 0.0009722 0.0189788  
-0.0055299 -0.0162042 0.0102985 0.0138070 -0.0140937 -0.0114447 0.0160884 0.0088486 -0.0161137 -0.0059170  
0.0146423 0.0027482 -0.0125122 0.0003991 0.0105408 -0.0032011 -0.0092040 0.0053831 0.0085067 -0.0068119  
-0.0080732 0.0075303 0.0073933 -0.0077274 -0.0060952 0.0076579 0.0041237 -0.0075442 -0.0017527 0.0075018

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	11833.2	86.30

FOURIER SERIES : 11822.6 86.22

\*\*\*\*\* END OF DATA FOR YEAR 2021 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\*\* 2022 \*\*\*\*\* IS : 1546.0 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD : 1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 1546.0 MW MINIMUM LOAD : 970.9 MW

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)

INTEGRATION :	11687.3	86.30
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FOURIER SERIES :	11676.9	86.22
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\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)

INTEGRATION :	11687.3	86.30
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FOURIER SERIES :	11676.9	86.22
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\*\*\*\*\* END OF DATA FOR YEAR 2022 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\* 2023 \*\*\*\* IS : 1726.7 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD : 1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 1726.7 MW MINIMUM LOAD : 1084.4 MW

	ENERGY DEMAND (GWH)	LOAD FACTOR (%)
INTEGRATION :	13053.4	86.30
FOURIER SERIES :	13041.7	86.22

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

	ENERGY DEMAND (GWH)	LOAD FACTOR (%)
INTEGRATION :	13053.4	86.30
FOURIER SERIES :	13041.7	86.22

\*\*\*\*\* END OF DATA FOR YEAR 2023 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\* 2024 \*\*\*\* IS : 1807.4 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD : 1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 1807.4 MW MINIMUM LOAD : 1135.0 MW

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	13663.5	86.30
FOURIER SERIES :	13651.3	86.22

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	13663.5	86.30
FOURIER SERIES :	13651.3	86.22

\*\*\*\*\* END OF DATA FOR YEAR 2024 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\*\* 2025 \*\*\*\*\* IS : 1888.1 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD : 1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 1888.1 MW MINIMUM LOAD : 1185.7 MW

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)



INTEGRATION : 14273.7 86.30

FOURIER SERIES : 14260.9 86.22

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

ENERGY DEMAND LOAD FACTOR

(GWH) (%)

INTEGRATION : 14273.7 86.30

FOURIER SERIES : 14260.9 86.22

\*\*\*\*\* END OF DATA FOR YEAR 2025 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\*\* 2026 \*\*\*\*\* IS : 1968.8 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD :

1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 1968.8 MW MINIMUM LOAD : 1236.4 MW

ENERGY DEMAND LOAD FACTOR

(GWH) (%)

INTEGRATION : 14883.8 86.30

FOURIER SERIES : 14870.4 86.22

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	14883.8	86.30
FOURIER SERIES :	14870.4	86.22

\*\*\*\*\* END OF DATA FOR YEAR 2026 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\* 2027 \*\*\*\* IS : 2049.5 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD :

1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 2049.5 MW MINIMUM LOAD : 1287.1 MW

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	15493.9	86.30
FOURIER SERIES :	15480.0	86.22

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

	ENERGY DEMAND	LOAD FACTOR
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	(GWH)	(%)
INTEGRATION :	15493.9	86.30
FOURIER SERIES :	15480.0	86.22

\*\*\*\*\* END OF DATA FOR YEAR 2027 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\* 2028 \*\*\*\* IS : 2130.2 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD :

1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 2130.2 MW MINIMUM LOAD : 1337.8 MW

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	16104.0	86.30
FOURIER SERIES :	16089.6	86.22

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	16104.0	86.30

FOURIER SERIES : 16089.6 86.22

\*\*\*\*\* END OF DATA FOR YEAR 2028 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\*\* 2029 \*\*\*\*\* IS : 2210.9 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD :

1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 2210.9 MW MINIMUM LOAD : 1388.5 MW

ENERGY DEMAND LOAD FACTOR

(GWH) (%)

INTEGRATION : 16714.1 86.30

FOURIER SERIES : 16699.2 86.22

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

ENERGY DEMAND LOAD FACTOR

(GWH) (%)

INTEGRATION : 16714.1 86.30

FOURIER SERIES : 16699.2 86.22

\*\*\*\*\* END OF DATA FOR YEAR 2029 \*\*\*\*\*

PEAK LOAD FOR YEAR \*\*\*\* 2030 \*\*\*\* IS : 2291.6 MW

PERIOD PEAK LOADS AS FRACTION OF ANNUAL PEAK LOAD :

1.0000

\*\*\*\*\* PERIOD 1 \*\*\*\*\*

PEAK LOAD : 2291.6 MW MINIMUM LOAD : 1439.1 MW

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	17324.3	86.30
FOURIER SERIES :	17308.8	86.22

\*\*\*\*\* ANNUAL SUMMARY \*\*\*\*\*

	ENERGY DEMAND	LOAD FACTOR
	(GWH)	(%)
INTEGRATION :	17324.3	86.30
FOURIER SERIES :	17308.8	86.22

\*\*\*\*\* END OF DATA FOR YEAR 2030 \*\*\*\*\*

Output Modul Mersim Simulasi 1:

STATE COST K\$ LOLP % - DAYS/YEAR 2021 CONFIGURATIONS \* \* \* \* \*

1 500102. 0.0795 0.290 <- WITH MAINT 0 0 0 0

ENS GWH -> 6.6

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2022 CONFIGURATIONS \* \* \* \* \*

2 480388. 0.0812 0.296 <- WITH MAINT 0 0 0 0

ENS GWH -> 6.8

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2023 CONFIGURATIONS \* \* \* \* \*

3 629427. 0.0808 0.295 <- WITH MAINT 0 0 0 0

ENS GWH -> 7.9

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2024 CONFIGURATIONS \* \* \* \* \*

4 667509. 0.0807 0.295 <- WITH MAINT 0 0 0 0

ENS GWH -> 8.3

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2025 CONFIGURATIONS \*\*\*\*\*

5 699647. 0.0800 0.292 <- WITH MAINT 0 0 0 0

ENS GWH -> 8.2

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2026 CONFIGURATIONS \*\*\*\*\*

6 727096. 0.0800 0.292 <- WITH MAINT 0 0 0 0

ENS GWH -> 8.0

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2027 CONFIGURATIONS \*\*\*\*\*

7 753242. 0.0800 0.292 <- WITH MAINT 0 0 0 0

ENS GWH -> 7.5

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2028 CONFIGURATIONS \*\*\*\*\*

8 779400. 0.0805 0.294 <- WITH MAINT 0 0 0 0

ENS GWH -> 6.9

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2029 CONFIGURATIONS \*\*\*\*\*





2 480388. 0.0812 0.296 <- WITH MAINT 0 0 0 0 0

ENS GWH -> 6.8

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2023 CONFIGURATIONS \* \* \* \* \*

3 629427. 0.0808 0.295 <- WITH MAINT 0 0 0 0 0

ENS GWH -> 7.9

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2024 CONFIGURATIONS \* \* \* \* \*

4 667509. 0.0807 0.295 <- WITH MAINT 0 0 0 0 0

ENS GWH -> 8.3

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2025 CONFIGURATIONS \* \* \* \* \*

5 696207. 0.0804 0.293 <- WITH MAINT 0 0 0 0 0



STATE COST K\$ LOLP % - DAYS/YEAR 2029 CONFIGURATIONS \* \* \* \* \*

9 456799. 0.0815 0.297 <- WITH MAINT 0 0 0 0 4

ENS GWH -> 1.3

-1

STATE COST K\$ LOLP % - DAYS/YEAR 2030 CONFIGURATIONS \* \* \* \* \*

10 479416. 0.0789 0.288 <- WITH MAINT 0 0 0 0 4

ENS GWH -> 0.9

-1

-1