

LAMPIRAN D

Rugi-rugi daya transmisi pada saat menggunakan Pembangkit Existing & Geothermic

- Rugi-rugi daya transmisi New Suralaya ke Suralaya

$$\text{Jarak} = 1,5 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 64,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (64,3 \text{ A})^2 \cdot (1,5 \text{ km} \times 0,024 \Omega/\text{km})$$

$$446,52 \text{ W} = 0,4 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke New Balaraja sirkit 1

$$\text{Jarak} = 64,3 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 151,6 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (151,6 \text{ A})^2 \cdot (64,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$122803 \text{ W} = 122,8 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke New Balaraja sirkit 2

$$\text{Jarak} = 64,3 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 151,6 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (151,6 \text{ A})^2 \cdot (64,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$122803 \text{ W} = 122,8 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke Cilegon sirkit 1

$$\text{Jarak} = 12,9 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 139,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (139,1 \text{ A})^2 \cdot (12,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$17971 \text{ W} = 17,9 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke Cilegon sirkit 2

$$\text{Jarak} = 12,9 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 139,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (139,1 \text{ A})^2 \cdot (12,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$17971 \text{ W} = 17,9 \text{ kW}$$

- Rugi-rugi daya transmisi Cilegon ke Cibinong

$$\text{Jarak} = 130,8 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 78,5 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (78,5 \text{ A})^2 \cdot (130,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$57901 \text{ W} = 57,9 \text{ kW}$$

- Rugi-rugi daya transmisi Bekasi ke Cawang

$$\text{Jarak} = 16,8 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$Arus = 135 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (135 \text{ A})^2 \cdot (16,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$25444 \text{ W} = 25,4 \text{ kW}$$

- Rugi-rugi daya transmisi Bekasi ke Cibinong

$$\text{Jarak} = 37,9 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$Arus = 72,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (72,3 \text{ A})^2 \cdot (16,8 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$16463 \text{ W} = 16,4 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke Kembangan sirkit 1

$$\text{Jarak} = 30,1 \text{ km}$$

$$Z = 0,024 + j0,274 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 54,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (54,3 \text{ A})^2 \cdot (30,1 \text{ km} \times 0,024 \text{ } \Omega/\text{km})$$

$$6390 \text{ W} = 6,3 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke Kembangan sirkit 2

$$\text{Jarak} = 30,1 \text{ km}$$

$$Z = 0,024 + j0,274 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 54,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (54,3 \text{ A})^2 \cdot (30,1 \text{ km} \times 0,024 \text{ } \Omega/\text{km})$$

$$6390 \text{ W} = 6,3 \text{ kW}$$

- Rugi-rugi daya transmisi Cawang ke Muara Tawar

$$\text{Jarak} = 43,8 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 169,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (169,3 \text{ A})^2 \cdot (43,8 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$104325 \text{ W} = 104,3 \text{ kW}$$

- Rugi-rugi daya transmisi New Balaraja ke Gandul sirkit 1

$$\text{Jarak} = 46,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 68,8 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (68,8 \text{ A})^2 \cdot (46,2 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$18173 \text{ W} = 18,1 \text{ kW}$$

- Rugi-rugi daya transmisi New Balaraja ke Gandul sirkit 2

$$\text{Jarak} = 46,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 68,8 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (68,8 \text{ A})^2 \cdot (46,2 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$18173 \text{ W} = 18,1 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke depok sirkit 1

$$\text{Jarak} = 7,5 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 24,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (24,2 \text{ A})^2 \cdot (7,5 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$365 \text{ W} = 0,3 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke depok sirkit 2

$$\text{Jarak} = 7,5 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 24,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (24,2 \text{ A})^2 \cdot (7,5 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$365 \text{ W} = 0,3 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Cibinong sirkit 1

$$\text{Jarak} = 14 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 53 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (53 \text{ A})^2 \cdot (14 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$3268 \text{ W} = 3,2 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Cibinong sirkit 2

$$\text{Jarak} = 14 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 53 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (53 \text{ A})^2 \cdot (14 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$3268 \text{ W} = 3,2 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Tasik sirkit 1

$$\text{Jarak} = 275,6 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 29 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (29 \text{ A})^2 \cdot (275,6 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$19261 \text{ W} = 19,2 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Tasik sirkit 2

$$\text{Jarak} = 275,6 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 29 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (29 \text{ A})^2 \cdot (275,6 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$19261 \text{ W} = 19,2 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Muara Tawar

$$\text{Jarak} = 50,5 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 139,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (139,2 \text{ A})^2 \cdot (50,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$81315 \text{ W} = 81,3 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Saguling sirkit 1

$$\text{Jarak} = 83,8 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 33,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (33,1 \text{ A})^2 \cdot (83,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6610,5 \text{ W} = 6,6 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Saguling sirkit 2

$$\text{Jarak} = 83,8 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 33,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (33,1 \text{ A})^2 \cdot (83,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6610,5 \text{ W} = 6,6 \text{ kW}$$

- Rugi-rugi daya transmisi Saguling ke Cirata sirkit 1

$$\text{Jarak} = 25,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 17,7 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (17,7 \text{ A})^2 \cdot (25,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$656,07 \text{ W} = 0,6 \text{ kW}$$

- Rugi-rugi daya transmisi Saguling ke Cirata sirkit 2

$$\text{Jarak} = 25,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 17,7 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (17,7 \text{ A})^2 \cdot (25,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$656,07 \text{ W} = 0,6 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke Saguling sirkit 1

$$\text{Jarak} = 37,6 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 92 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (92 \text{ A})^2 \cdot (37,6 \text{ km} \times 0,024 \Omega/\text{km})$$

$$22914 \text{ W} = 22,9 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke Saguling sirkit 2

$$\text{Jarak} = 37,6 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 92 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (92 \text{ A})^2 \cdot (37,6 \text{ km} \times 0,024 \Omega/\text{km})$$

$$22914 \text{ W} = 22,9 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke MDRCN

$$\text{Jarak} = 179,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 7,8 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (7,8 \text{ A})^2 \cdot (179,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$785,86 \text{ W} = 0,7 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke NEW UBRGN

$$\text{Jarak} = 179,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 27,3 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(27,3 \text{ A})^2.(179,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$9626,8 \text{ W} = 9,6 \text{ kW}$$

- Rugi-rugi daya transmisi NEW UBRGN ke MDRCN

$$\text{Jarak} = 86,64 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 40,4 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(40,4 \text{ A})^2.(86,64 \text{ km} \times 0,024 \Omega/\text{km})$$

$$10182 \text{ W} = 10,1 \text{ kW}$$

- Rugi-rugi daya transmisi MDRCN ke UNGRN sirkit 1

$$\text{Jarak} = 230 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 18,1 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(18,1 \text{ A})^2.(230 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$6261,6 \text{ W} = 6,2 \text{ kW}$$

- Rugi-rugi daya transmisi MDRCN ke UNGRN sirkit 2

$$\text{Jarak} = 230 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 18,1 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(18,1 \text{ A})^2.(230 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$6261,6 \text{ W} = 6,2 \text{ kW}$$

- Rugi-rugi daya transmisi Tasik ke Pedan sirkit 1

$$\text{Jarak} = 304 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 16,8 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(16,8 \text{ A})^2.(304 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6177,7 \text{ W} = 6,1 \text{ kW}$$

- Rugi-rugi daya transmisi Tasik ke Pedan sirkit 2

$$\text{Jarak} = 304 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 16,8 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(16,8 \text{ A})^2.(304 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6177,7 \text{ W} = 6,1 \text{ kW}$$

- Rugi-rugi daya transmisi Cibatú ke Cirata sirkit 1

$$\text{Jarak} = 46 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 34,9 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(34,9 \text{ A})^2.(46 \text{ km} \times 0,024 \Omega/\text{km})$$

$$4034 \text{ W} = 4,0 \text{ kW}$$

- Rugi-rugi daya transmisi Cibatú ke Cirata sirkit 2

$$\text{Jarak} = 46 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 34,9 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(34,9 \text{ A})^2.(46 \text{ km} \times 0,024 \Omega/\text{km})$$

$$4034 \text{ W} = 4,0 \text{ kW}$$

- Rugi-rugi daya transmisi MTWAR ke Cibatú sirkit 1

$$\text{Jarak} = 48,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 129,9 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (129,9 \text{ A})^2 \cdot (48,2 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$67587 \text{ W} = 67,5 \text{ kW}$$

- Rugi-rugi daya transmisi MTWAR ke Cibatuan sirkit 2

$$\text{Jarak} = 48,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 129,9 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (129,9 \text{ A})^2 \cdot (48,2 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$67587 \text{ W} = 67,5 \text{ kW}$$

- Rugi-rugi daya transmisi Tanjung Jati ke Ungaran sirkit 1

$$\text{Jarak} = 134,8 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 96,9 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (96,9 \text{ A})^2 \cdot (134,8 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$105181 \text{ W} = 105,1 \text{ kW}$$

- Rugi-rugi daya transmisi Tanjung Jati ke Ungaran sirkit 2

$$\text{Jarak} = 134,8 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 96,9 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (96,9 \text{ A})^2 \cdot (134,8 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$105181 \text{ W} = 105,1 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke Pedan

$$\text{Jarak} = 75,3 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 60,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (60,1 \text{ A})^2 \cdot (75,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$22602 \text{ W} = 22,60 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke Krian

$$\text{Jarak} = 267,11 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 6,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (6,3 \text{ A})^2 \cdot (75,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$880,99 \text{ W} = 0,8 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke NBANG

$$\text{Jarak} = 207,7 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 6 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (6 \text{ A})^2 \cdot (19,8 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$621,36 \text{ W} = 0,6 \text{ kW}$$

- Rugi-rugi daya transmisi Gresik ke Krian sirkit 1

$$\text{Jarak} = 23,94 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 83 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (83 \text{ A})^2 \cdot (21,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$13705 \text{ W} = 13,7 \text{ kW}$$

- Rugi-rugi daya transmisi Gresik ke Krian sirkit 2

$$\text{Jarak} = 23,94 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 83 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (83 \text{ A})^2 \cdot (21,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$13705 \text{ W} = 13,7 \text{ kW}$$

- Rugi-rugi daya transmisi Ngimbang ke Krian

$$\text{Jarak} = 47,6 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 35,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (35,1 \text{ A})^2 \cdot (47,6 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$4873,3 \text{ W} = 4,8 \text{ kW}$$

- Rugi-rugi daya transmisi Krian ke Grati sirkit 1

$$\text{Jarak} = 92,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 32,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (32,2 \text{ A})^2 \cdot (92,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6897,9 \text{ W} = 6,8 \text{ kW}$$

- Rugi-rugi daya transmisi Krian ke Grati sirkit 2

$$\text{Jarak} = 92,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 32,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (32,2 \text{ A})^2 \cdot (92,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6897,9 \text{ W} = 6,8 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Grati sirkit 1

$$\text{Jarak} = 87,9 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 113,1 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(113,1 \text{ A})^2.(87,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$80956 \text{ W} = 80,9 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Grati sirkit 2

$$\text{Jarak} = 87,9 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 113,1 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(113,1 \text{ A})^2.(87,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$80956 \text{ W} = 80,9 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Kediri sirkit 1

$$\text{Jarak} = 209,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 69,3 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(69,3 \text{ A})^2.(209,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$72406 \text{ W} = 72,4 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Kediri sirkit 2

$$\text{Jarak} = 209,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 69,3 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(69,3 \text{ A})^2.(209,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$72406 \text{ W} = 72,4 \text{ kW}$$

- Rugi-rugi daya transmisi Kediri ke Pedan sirkit 1

$$\text{Jarak} = 202,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 21,1 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(21,1 \text{ A})^2.(202,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6488 \text{ W} = 6,4 \text{ kW}$$

- Rugi-rugi daya transmisi Kediri ke Pedan sirkit 2

$$\text{Jarak} = 202,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 21,1 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(21,1 \text{ A})^2.(202,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6488 \text{ W} = 6,4 \text{ kW}$$