

LAMPIRAN C

Rugi-rugi daya transmisi pada saat Hanya menggunakan Pembangkit Geothermic

- Rugi-rugi daya transmisi New Suralaya ke Suralaya

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

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

$$\text{Arus} = 87,8 \text{ A}$$

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

$$3 \cdot (87,8 \text{ A})^2 \cdot (1,5 \text{ km} \times 0,024 \Omega/\text{km})$$

$$832,55 \text{ W} = 0,83 \text{ kW}$$

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

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

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

$$\text{Arus} = 62,2 \text{ A}$$

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

$$3 \cdot (62,2 \text{ A})^2 \cdot (64,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$20672 \text{ W} = 20,67 \text{ kW}$$

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

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

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

$$\text{Arus} = 62,2 \text{ A}$$

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

$$3 \cdot (62,2 \text{ A})^2 \cdot (64,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$20672 \text{ W} = 20,67 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke Cilegon sirkit 1

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

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

$$Arus = 55,3 \text{ A}$$

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

$$3 \cdot (55,3 \text{ A})^2 \cdot (12,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$2840,4 \text{ W} = 2,84 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke Cilegon sirkit 2

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

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

$$Arus = 55,3 \text{ A}$$

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

$$3 \cdot (55,3 \text{ A})^2 \cdot (12,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$2840,4 \text{ W} = 2,84 \text{ kW}$$

- Rugi-rugi daya transmisi Cilegon ke Cibinong

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

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

$$Arus = 31,9 \text{ A}$$

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

$$3 \cdot (31,9 \text{ A})^2 \cdot (130,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$9583,4 \text{ W} = 9,5 \text{ kW}$$

- Rugi-rugi daya transmisi Bekasi ke Cawang

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

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

$$Arus = 48,8 \text{ A}$$

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

$$3 \cdot (48,8 \text{ A})^2 \cdot (16,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$3324,7 \text{ W} = 3,3 \text{ kW}$$

- Rugi-rugi daya transmisi Bekasi ke Cibinong

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

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

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

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

$$3 \cdot (18 \text{ A})^2 \cdot (16,8 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$1020,4 \text{ W} = 1,0 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke Kembangan sirkit 1

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

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

$$\text{Arus} = 36,1 \text{ A}$$

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

$$3 \cdot (36,1 \text{ A})^2 \cdot (30,1 \text{ km} \times 0,024 \text{ } \Omega/\text{km})$$

$$2824,3 \text{ W} = 2,8 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke Kembangan sirkit 2

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

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

$$\text{Arus} = 36,1 \text{ A}$$

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

$$3 \cdot (36,1 \text{ A})^2 \cdot (30,1 \text{ km} \times 0,024 \text{ } \Omega/\text{km})$$

$$2824,3 \text{ W} = 2,8 \text{ kW}$$

- Rugi-rugi daya transmisi Cawang ke Muara Tawar

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

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

$$\text{Arus} = 25,2 \text{ A}$$

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

$$3 \cdot (25,2 \text{ A})^2 \cdot (43,8 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$2311,4 \text{ W} = 2,3 \text{ kW}$$

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

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

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

$$\text{Arus} = 38,5 \text{ A}$$

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

$$3 \cdot (38,5 \text{ A})^2 \cdot (46,2 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$5690,7 \text{ W} = 5,6 \text{ kW}$$

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

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

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

$$\text{Arus} = 38,5 \text{ A}$$

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

$$3 \cdot (38,5 \text{ A})^2 \cdot (46,2 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$5690,7 \text{ W} = 5,6 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke depok sirkit 1

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

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

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

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

$$3 \cdot (16 \text{ A})^2 \cdot (7,5 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$159,55 \text{ W} = 0,1 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke depok sirkit 2

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

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

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

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

$$3 \cdot (16 \text{ A})^2 \cdot (7,5 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$159,55 \text{ W} = 0,1 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Cibinong sirkit 1

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

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

$$\text{Arus} = 45,1 \text{ A}$$

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

$$3 \cdot (45,1 \text{ A})^2 \cdot (14 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$2366,4 \text{ W} = 2,3 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Cibinong sirkit 2

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

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

$$\text{Arus} = 45,1 \text{ A}$$

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

$$3 \cdot (45,1 \text{ A})^2 \cdot (14 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$2366,4 \text{ W} = 2,3 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Tasik sirkit 1

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

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

$$\text{Arus} = 22,8 \text{ A}$$

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

$$3 \cdot (22,8 \text{ A})^2 \cdot (275,6 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$11906 \text{ W} = 11,9 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Tasik sirkit 2

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

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

$$\text{Arus} = 22,8 \text{ A}$$

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

$$3 \cdot (22,8 \text{ A})^2 \cdot (275,6 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$11906 \text{ W} = 11,9 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Muara Tawar

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

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

$$\text{Arus} = 31 \text{ A}$$

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

$$3 \cdot (31 \text{ A})^2 \cdot (50,5 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$4032,9 \text{ W} = 4,0 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Saguling sirkit 1

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

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

$$\text{Arus} = 29,5 \text{ A}$$

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

$$3 \cdot (29,5 \text{ A})^2 \cdot (83,8 \text{ km} \times 0,024 \text{ } \Omega/\text{km})$$

$$5250,7 \text{ W} = 5,2 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Saguling sirkit 2

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

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

$$\text{Arus} = 29,5 \text{ A}$$

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

$$3 \cdot (29,5 \text{ A})^2 \cdot (83,8 \text{ km} \times 0,024 \text{ } \Omega/\text{km})$$

$$5250,7 \text{ W} = 5,2 \text{ kW}$$

- Rugi-rugi daya transmisi Saguling ke Cirata sirkit 1

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

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

$$\text{Arus} = 12,6 \text{ A}$$

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

$$3 \cdot (12,6 \text{ A})^2 \cdot (25,2 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$332,46 \text{ W} = 0,3 \text{ kW}$$

- Rugi-rugi daya transmisi Saguling ke Cirata sirkit 2

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

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

$$\text{Arus} = 12,6 \text{ A}$$

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

$$3 \cdot (12,6 \text{ A})^2 \cdot (25,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$332,46 \text{ W} = 0,3 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke Saguling sirkit 1

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

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

$$\text{Arus} = 19 \text{ A}$$

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

$$3 \cdot (19 \text{ A})^2 \cdot (37,6 \text{ km} \times 0,024 \Omega/\text{km})$$

$$977,3 \text{ W} = 0,9 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke Saguling sirkit 2

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

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

$$\text{Arus} = 19 \text{ A}$$

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

$$3 \cdot (19 \text{ A})^2 \cdot (37,6 \text{ km} \times 0,024 \Omega/\text{km})$$

$$977,3 \text{ W} = 0,9 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke MDRCN

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

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

$$\text{Arus} = 11,3 \text{ A}$$

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

$$3 \cdot (11,3 \text{ A})^2 \cdot (179,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$1649,3 \text{ W} = 1,6 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke NEW UBRGN

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

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

$$\text{Arus} = 14,7 \text{ A}$$

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

$$3.(14,7 \text{ A})^2.(179,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$2791,2 \text{ W} = 2,7 \text{ kW}$$

- Rugi-rugi daya transmisi NEW UBRGN ke MDRCN

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

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

$$\text{Arus} = 53,1 \text{ A}$$

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

$$3.(53,1 \text{ A})^2.(86,64 \text{ km} \times 0,024 \Omega/\text{km})$$

$$17589 \text{ W} = 17,58 \text{ kW}$$

- Rugi-rugi daya transmisi MDRCN ke UNGRN sirkit 1

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

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

$$\text{Arus} = 10,6 \text{ A}$$

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

$$3.(10,6 \text{ A})^2.(230 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$2147,5 \text{ W} = 2,1 \text{ kW}$$

- Rugi-rugi daya transmisi MDRCN ke UNGRN sirkit 2

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

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

$$\text{Arus} = 10,6 \text{ A}$$

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

$$3.(10,6 \text{ A})^2.(230 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$2147,5 \text{ W} = 2,1 \text{ kW}$$

- Rugi-rugi daya transmisi Tasik ke Pedan sirkit 1

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

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

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

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

$$3 \cdot (17 \text{ A})^2 \cdot (304 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6325,6 \text{ W} = 6,3 \text{ kW}$$

- Rugi-rugi daya transmisi Tasik ke Pedan sirkit 2

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

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

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

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

$$3 \cdot (17 \text{ A})^2 \cdot (304 \text{ km} \times 0,024 \Omega/\text{km})$$

$$6325,6 \text{ W} = 6,3 \text{ kW}$$

- Rugi-rugi daya transmisi Cibatú ke Cirata sirkit 1

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

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

$$\text{Arus} = 7,4 \text{ A}$$

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

$$3 \cdot (7,4 \text{ A})^2 \cdot (46 \text{ km} \times 0,024 \Omega/\text{km})$$

$$181,37 \text{ W} = 0,1 \text{ kW}$$

- Rugi-rugi daya transmisi Cibatú ke Cirata sirkit 2

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

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

$$\text{Arus} = 7,4 \text{ A}$$

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

$$3 \cdot (7,4 \text{ A})^2 \cdot (46 \text{ km} \times 0,024 \Omega/\text{km})$$

$$181,37 \text{ W} = 0,1 \text{ kW}$$

- Rugi-rugi daya transmisi MTWAR ke Cibatú sirkit 1

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

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

$$\text{Arus} = 27,8 \text{ A}$$

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

$$3 \cdot (27,8 \text{ A})^2 \cdot (48,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$3095,5 \text{ W} = 3,0 \text{ kW}$$

- Rugi-rugi daya transmisi MTWAR ke Cibatu sirkit 2

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

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

$$\text{Arus} = 27,8 \text{ A}$$

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

$$3 \cdot (27,8 \text{ A})^2 \cdot (48,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$3095,5 \text{ W} = 3,0 \text{ kW}$$

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

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

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

$$\text{Arus} = 10,8 \text{ A}$$

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

$$3 \cdot (10,8 \text{ A})^2 \cdot (134,8 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$1306,6 \text{ W} = 1,3 \text{ kW}$$

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

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

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

$$\text{Arus} = 10,8 \text{ A}$$

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

$$3 \cdot (10,8 \text{ A})^2 \cdot (134,8 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$1306,6 \text{ W} = 1,3 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke Pedan

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

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

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

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

$$3 \cdot (34,9 \text{ A})^2 \cdot (75,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$7621,6 \text{ W} = 7,6 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke Krian

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

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

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

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

$$3 \cdot (4 \text{ A})^2 \cdot (75,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$355,15 \text{ W} = 0,3 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke NBANG

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

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

$$\text{Arus} = 8,3 \text{ A}$$

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

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

$$1189 \text{ W} = 1,1 \text{ kW}$$

- Rugi-rugi daya transmisi Gresik ke Krian sirkit 1

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

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

$$\text{Arus} = 13,7 \text{ A}$$

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

$$3 \cdot (13,7 \text{ A})^2 \cdot (21,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$373,39 \text{ W} = 0,3 \text{ kW}$$

- Rugi-rugi daya transmisi Gresik ke Krian sirkit 2

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

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

$$\text{Arus} = 13,7 \text{ A}$$

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

$$3 \cdot (13,7 \text{ A})^2 \cdot (21,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$373,39 \text{ W} = 0,3 \text{ kW}$$

- Rugi-rugi daya transmisi Ngimbang ke Krian

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

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

$$\text{Arus} = 15 \text{ A}$$

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

$$3 \cdot (15 \text{ A})^2 \cdot (47,6 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$890 \text{ W} = 0,8 \text{ kW}$$

- Rugi-rugi daya transmisi Krian ke Grati sirkit 1

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

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

$$\text{Arus} = 23,9 \text{ A}$$

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

$$3 \cdot (23,9 \text{ A})^2 \cdot (92,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$3800,1 \text{ W} = 3,8 \text{ kW}$$

- Rugi-rugi daya transmisi Krian ke Grati sirkit 2

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

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

$$\text{Arus} = 23,9 \text{ A}$$

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

$$3 \cdot (23,9 \text{ A})^2 \cdot (92,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$3800,1 \text{ W} = 3,8 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Grati sirkit 1

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

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

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

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

$$3.(6,6 \text{ A})^2.(87,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$275,68 \text{ W} = 0,2 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Grati sirkit 2

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

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

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

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

$$3.(6,6 \text{ A})^2.(87,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$275,68 \text{ W} = 0,2 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Kediri sirkit 1

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

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

$$\text{Arus} = 3,8 \text{ A}$$

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

$$3.(3,8 \text{ A})^2.(209,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$217,71 \text{ W} = 0,2 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Kediri sirkit 2

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

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

$$\text{Arus} = 3,8 \text{ A}$$

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

$$3.(3,8 \text{ A})^2.(209,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$217,71 \text{ W} = 0,2 \text{ kW}$$

- Rugi-rugi daya transmisi Kediri ke Pedan sirkit 1

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

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

$$\text{Arus} = 9,8 \text{ A}$$

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

$$3.(9,8 \text{ A})^2.(202,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$1399,6 \text{ W} = 1,3 \text{ kW}$$

- Rugi-rugi daya transmisi Kediri ke Pedan sirkit 2

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

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

$$\text{Arus} = 9,8 \text{ A}$$

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

$$3.(9,8 \text{ A})^2.(202,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$1399,6 \text{ W} = 1,3 \text{ kW}$$