

Lampiran 2

TABEL 2.a
Prakiraan Penyediaan Energi Listrik di Indonesia

| Sumber Energi | 1990 | | 2000 | | 2010 | |
|----------------------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | MW | persen | MW | persen | MW | persen |
| Batubara | 1.930 | 8.8 | 10.750 | 28.4 | 28.050 | 35.3 |
| Gas | 3.530 | 16.0 | 7.080 | 18.7 | 14.760 | 21.5 |
| Minyak | 2.210 | 10.0 | 1.950 | 5.2 | 320 | 0.5 |
| Solar | 11.020 | 50.1 | 9.410 | 24.8 | 4.060 | 5.9 |
| Panas Bumi | 170 | 0.8 | 500 | 1.3 | 430 | 0.6 |
| Air | 2.850 | 13.0 | 7.720 | 20.4 | 10.310 | 15.0 |
| Biomass | 270 | 1.2 | 290 | 0.8 | 460 | 0.7 |
| Lain-lain (Surya Angin) | 20 | 0.1 | 160 | 0.4 | 370 | 0.5 |
| Total | 22.000 | 100.0 | 37.860 | 100.0 | 68.760 | 100.0 |

Sumber: Djojonegoro, 1992 & Wibawa, 1996 dalam LIPI 2016

TABEL 2.b
Biaya, Efisiensi dan Faktor Kapasitas
Dari Sumber Daya Listrik

| Sumber | Biaya Konstruksi | Biaya O&M | Efisiensi |
|-------------------------------|---------------------|--------------|-----------|
| | \$ 10/ Kw | \$ 10/ Kw | % |
| Batubara Subkritis | 1800 | 45 | 39 |
| Gas Turbin | 500 | 20 | 38 |
| Nuklir | 4600 | 104 | 33 |
| Biomasa CHP Medium | 3845 | 146 | 70 |
| Biomasa- Pembakaran Sampah | 8000 | 304 | 50 |
| Hydropower | 2485 | 62 | 100 |
| Angin | 1785 | 27 | 100 |
| PV Solar (Surya) | 3075 | 46 | 100 |
| Geotermal (Panas Bumi) | 2055 | 42 | 15 |
| Pasang-Surut | 6275 | 189 | 100 |

Sumber: International Energy Agency IEA (2011)

TABEL 2.c
 Koefisien Pekerjaan per MW
 Dengan Sumber Energi 2010-2015

| Rata-Rata Global | Konstruksi dan Instalasi (C/I) | Manufaktur (M) | Operasi dan Manajemen (O & M) |
|-------------------------|---------------------------------------|-----------------------|--|
| Batu bara | 13.7607 | 0.0029 | 0.2055 |
| Gas | 3.3316 | 0.0010 | 0.2793 |
| Nuklir | 16.0000 | | 0.5150 |
| Biomasa | 3.7089 | 0.3804 | 1.9559 |
| Hydro | 11.1279 | 0.5152 | 0.2267 |
| Angin (darat) | 2.7026 | 11.6492 | 0.2501 |
| Angin (Lepas Pantai) | 3.9342 | 19.6711 | 0.6311 |
| PV Solar (Surya) | 20.5155 | 6.3717 | 0.3308 |
| Geotermal (Panas Bumi) | 2.7595 | 2.9376 | 1.3130 |
| Panas Matahari | 6.0000 | 4.0000 | 0.4750 |
| Pasang-Surut | 5.9965 | 0.6663 | 0.2132 |
| TOTAL | 89.8374 | 46.1954 | 6.3956 |

Sumber: Wei M., S. Patadia. and M. Kammen (2010) dan Greenpeace International (2009)