**Table 1**

Technical parameters of each EPP.

|  |  |  |
| --- | --- | --- |
| Equipment type | Parameters | Value |
| GB unit |  | 2000/2000/2000 (kW) |
|  | 0.9/0.9/0.9 |
| CHP unit |  | 2000/2000/2000 (kW) |
|  | 0.45/0.45/0.45 |
|  | 0.3/0.3/0.3 |
|  | 150/150/150 (kW) |
|  | 20/20/20 (kW) |
| CERG unit |  | 2000/2000/2000 (kW) |
|  | 0.3/0.3/0.3 |
| AC unit |  | 2000/2000/2000 (kW) |
|  | 0.3/0.3/0.3 |
| Electricity storage system |  | 0.0014/ 0.0014/ 0.0014 ($/kWh) |
|  | 200/200/200 (kW) |
|  | 200/200/200 (kW) |
|  | 50/50/50 (kW) |
|  | 500/500/500 (kW) |
|  | 200/200/200 (kW) |
|  | 0.5 (%) |
| / | 0.95/0.95 (%) |
| Heat storage system |  | 0.0014/ 0.0014/ 0.0014 ($/kWh) |
|  | 200/200/200 (kW) |
|  | 200/200/200 (kW) |
|  | 50/50/50 (kW) |
|  | 500/500/500 (kW) |
|  | 200/200/200 (kW) |
|  | 0.5 (%) |
| / | 0.95/0.95 (%) |
| Cold storage system |  | 0.0014/ 0.0014/ 0.0014 ($/kWh) |
|  | 200/200/200 (kW) |
|  | 200/200/200 (kW) |
|  | 50/50/50 (kW) |
|  | 500/500/500 (kW) |
|  | 200/200/200 (kW) |
|  | 0.5(%) |
| / | 0.95/0.95(%) |
| / |  | 2000 (kW) |
|  | 2000 (kW) |
|  | 1000 (kW) |
|  | 1000 (kW) |
|  | 0.0151/0.0151/0.0151 ($/kWh) |
|  | 0.0028/0.0028/0.0028 ($/kWh) |
|  | 0.15/0.15/0.15 |
|  | 0.0028/0.0028/0.0028 ($/kWh) |
|  | 0.0028/0.0028/0.0028 ($/kWh) |
|  | 0.0028/0.0028/0.0028 ($/kWh) |

**Table 2**

Energy prices.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tariffs for electricity purchased from the grid ($/kWh) | | | Tariffs for electricity sales to the grid($/kWh) | | |
| 01:00-07:00  23:00-24:00 | 08:00-11:00  15:00-18:00 | 12:00-14:00  19:00-22:00 | 01:00-07:00  23:00-24:00 | 08:00-11:00  15:00-18:00 | 12:00-14:00  19:00-22:00 |
| 0.055 | 0.1031 | 0.165 | 0.0275 | 0.055 | 0.0825 |