

Optimizing a Renewable Microgrid

University Problem Set

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Problem 1

This assignment examines Optimizing a Renewable Microgrid through a focused question, documented evidence, and a conclusion that stays within the supplied material.

Derivation

$$E = \sum_{t=1}^n p_t x_t \Delta t$$

Result and check

The result moves in the expected direction and remains within the stated measurement limits.

Problem 2

The procedure controls the main variables, records units at every step, and can be repeated by another student.

```
demand = [12, 18, 15]
generation = [10, 22, 17]
balance = [g - d for g, d in zip(generation, demand)]
```

Measure	Value	Status
1	-2	✓
2	4	✓
3	2	✓

Conclusion

Taken together, the supplied evidence answers the question and identifies the next test needed for Optimizing a Renewable Microgrid.