Cogeneration Export Revenue (Season and Off-Season)

Energy exported and revenue per year from export power and hours in the season and the off-season, at a tariff per kWh.

Method: Energy = power × hours; revenue = energy × tariff

Input parameters

Unit system: SI

Parameter	Value	Unit
Export power, season	22.000	MW
Season operating hours	3,300.0	h
Export power, off-season	18.000	MW
Off-season operating hours	1,500.0	h
Tariff per kWh	5.5000	

Calculated results

Parameter	Value	Unit
Energy exported per year	99,600	MWh
Revenue per year	5.4780e+08	

Formula and method

$$E = P_s t_s + P_o t_o, \quad R = E c$$

Variables

P_s	Export power, season	W
t_s	Season operating hours	s
P_o	Export power, off-season	W
t_o	Off-season operating hours	s
C	Tariff per kWh	-
E	Energy exported per year	J
R	Revenue per year	-

Method and standards

Definitions.

Assumptions and limits

- Average export. Season plus off-season hours must not exceed a year (8784 h).

References

- Energy = power × hours; revenue = energy × tariff

Report details

Report reference	FCC-145Y-4KG0 (the same inputs always give the same reference)
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Release checks	2 reference cases of this calculator, computed independently, are checked on every release

Results are for engineering estimation. Verify critical designs against the referenced standards and your own data.

This calculator online

https://calc.firecad.com/boilers-power-plant/plant-performance/cogeneration-revenue

Open this case on calc.firecad.com →

Reopens the calculator with the inputs of this report.