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Creation: 09-04-2025
Last Modification: 09-04-2025
Calculated with RECON version: 2.2.1

Sheet: CASE STUDY

Configuration personal data

Sheet name	CASE STUDY
Type	Renewable Energy Community
Status	to be constituted
City (Province)	Milano (MI)

Users and power plants of the configuration

User name	Category	POD name	No. POD same user	No. POD other users *	Type	Final use	Power plant (number of sections)
Wind	third-party producer	wpp	1	0	producer		wind (1)
user1	citizen	usr1	1	0	consumer	residential	
SME	SME	sme1	1	0	prosumer	office	PV (1)
user2	territorial institution	pod1	1	0	prosumer	custom schedule	PV (1)

* POD con le stesse caratteristiche ma nella titolarità di membri diversi.

Photovoltaic power plants

User name (POD name)	SME (sme1)	user2 (pod1)
Production unit	1	1
Producer *	SME	user2
Owner	same as producer	same as producer
Plant status	not operational	not operational
Commissioning date	01-12-2025	01-12-2025
Eligible for incentives	no	no
Already incentivized under Art. 42 bis DL 162/2019	no	no
Power [kW]	50	20
Mandatory power [kW]	50	20
Installation type	building	building
Exposure 1 - power / tilt / orientation	50 kW / 23° / 0°	20 kW / 23° / 0°
Exposure 2 - power / tilt / orientation		
Electricity selling strategy	Dedicated Withdrawal	Dedicated Withdrawal
Electricity price in free market [cent €/kWh]		
RID transferred to configuration	no	no
Yearly O&M costs [€/kW/year]	20	10
Extraordinary O&M costs [€/kW]	100	100

* Si assume che il produttore coincida con l'utente.
N.B. Eventuali dati indicati in grigio sono stimati.

Wind power plants

User name (POD name)	Wind (wpp)
Production unit	1
Producer *	Wind
Owner	same as producer
Plant status	not operational
Commissioning date	01-11-2025
Eligible for incentives	yes
Already incentivized under Art. 42 bis DL 162/2019	no
Power [kW]	250
Installation site characteristics	open, limited medium height obstacles
Site altitude [MASL]	150
Wind speeds - minimum / nominal / maximum	2.5 / 9 / 25 m/s
Hub height [m]	29,5
Electricity selling strategy	Dedicated Withdrawal
Electricity price in free market [cent €/kWh]	
RID transferred to configuration	no
Yearly O&M costs [€/kW/year]	
Extraordinary O&M costs [€/kW]	

* Si assume che il produttore coincida con l'utente.
N.B. Eventuali dati indicati in grigio sono stimati.

Power plants - investment

User name (POD name)	Wind (wpp)	SME (sme1)	user2 (pod1)
Plant technology	wind	photovoltaic	photovoltaic
Production unit	1	1	1
Commissioning date	01-11-2025	01-12-2025	01-12-2025
Investment type		equity	equity
Unitary investment cost [€/kW]		1500	1500
Total investment [€]		75000	30000
Loan: share of investment costs [%]			
Loan: interest rate [%]			
Loan: duration [years]			
Fee: type			
Fee: value			
Fee: duration [years]			
Final installment [€]			
TAN [%]			
EU subsidies	none	NRRF M2C2 I1.2	NRRF M2C2 I1.2
EU subsidy percentage		40	40
Maximum reference cost [€/kW]		1200	1500
Other non-EU subsidies	no	no	no
Non-EU subsidy percentage			
Maximum reference cost [€/kW]			
Subsidy percentage (for third-party producers)	0		
50% tax deductions			
Superbonus			

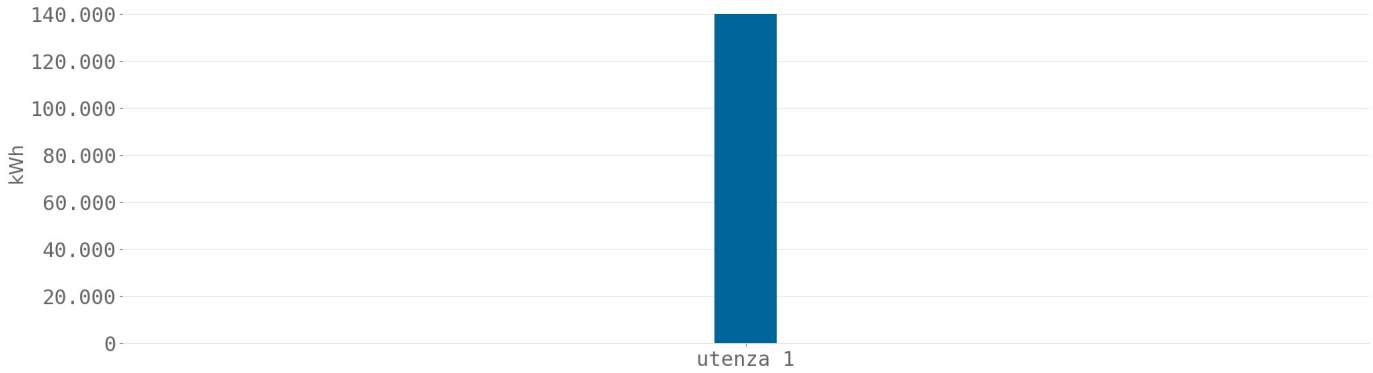
N.B. Gli impianti/UP sono ordinati per data di entrata in esercizio crescente.
Eventuali dati indicati in grigio sono stimati.

End customers

Username	POD name	Type	Power meter [kW]	Withdrawal availability	Final use	Electric energy price * [cent €/kWh]
user1	usr1	consumer	3	monthly	residential	
SME	sme1	prosumer	BT > 15	yearly, by ARERA time bands	office	20,0
user2	pod1	prosumer	BT > 15	yearly, by ARERA time bands	custom schedule	20,0

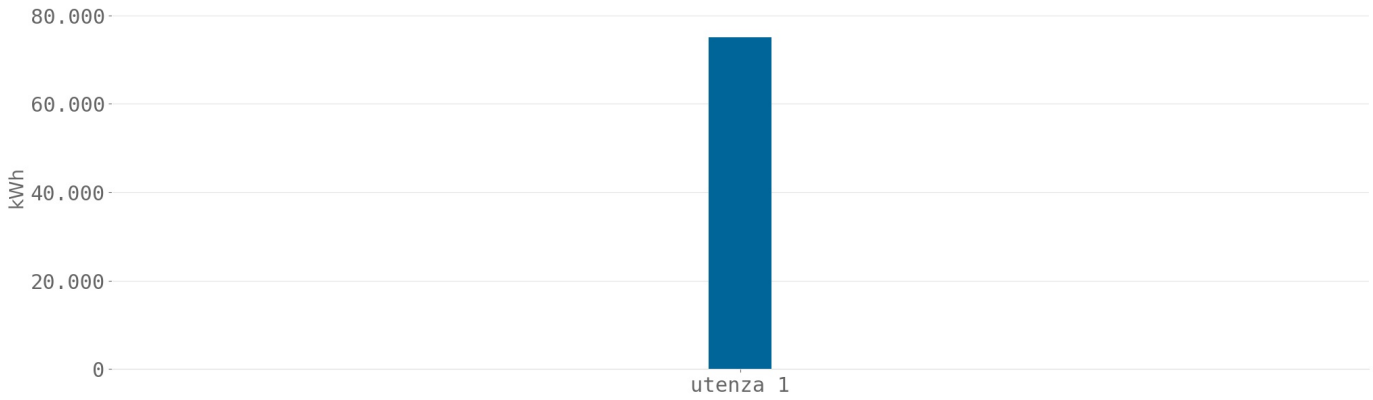
* Valore della quota energia (in euro/kWh) per la voce "spesa per la materia energia" ricavabile dalla bolletta, IVA esclusa.
N.B. Eventuali dati indicati in grigio sono stimati.

Annual withdrawals - Office utilities



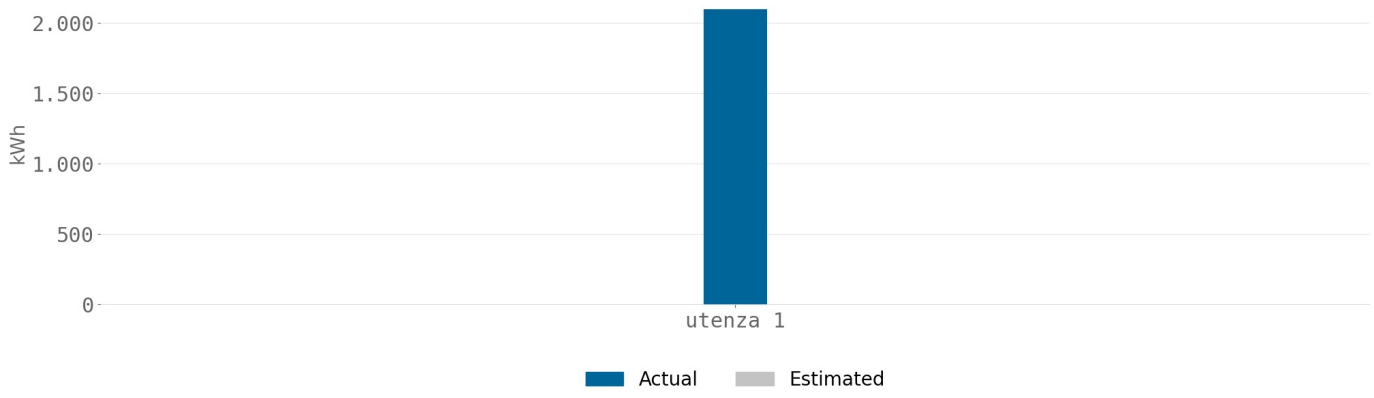
utenza 1: SME (sme1)

Annual withdrawals - Generic utilities with activity profile



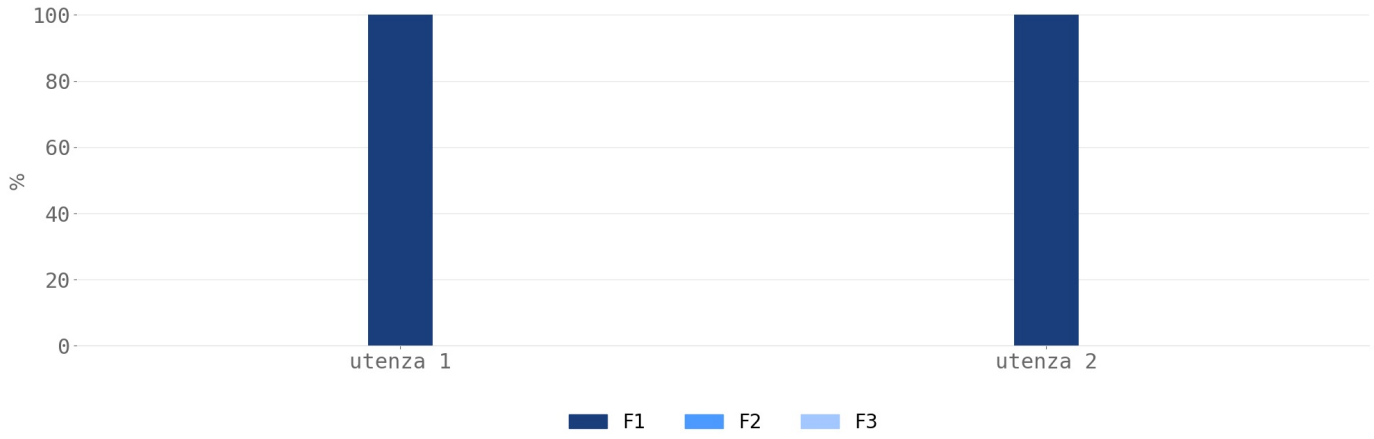
utenza 1: user2 (pod1)

Annual withdrawals - Residential utilities



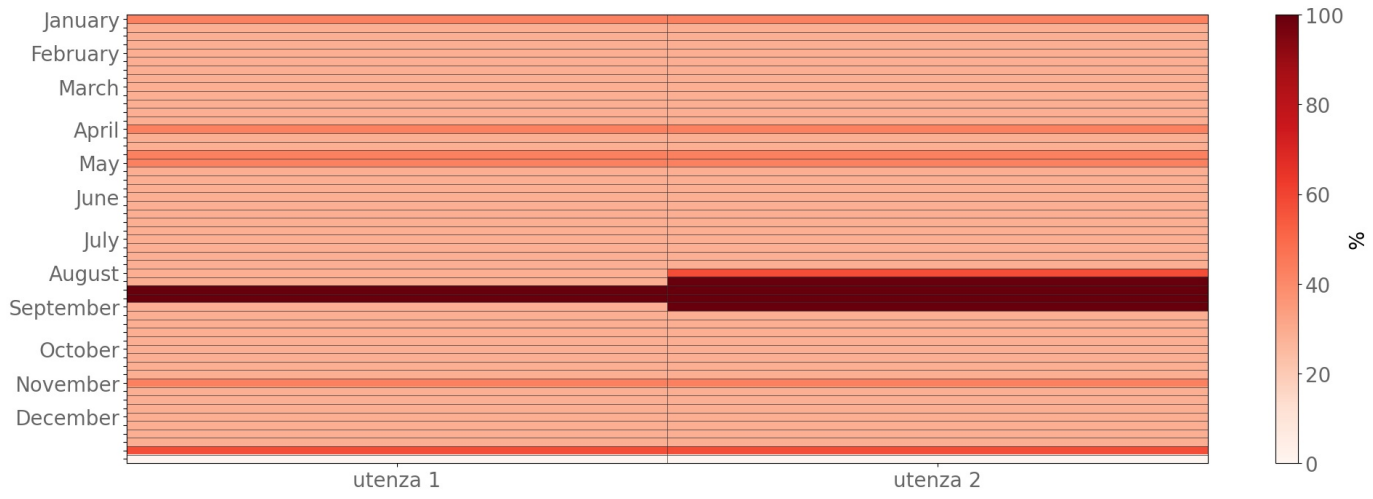
utenza 1: user1 (usr1)

Distribution by activity hours



utenza 1: SME (sme1)
utenza 2: user2 (pod1)

Weekly percentage of closing or non-activity days



utenza 1: SME (sme1)
utenza 2: user2 (pod1)

Power plant parameters

Extraordinary maintenance frequency [years]:	
- Photovoltaic	11
- Wind	11
- Hydroelectric	
Photovoltaic module efficiency reduction [%/year]	0,5

Financial parameters

Equity capital cost of configuration [%]	5
Inflation [%]	2

N.B. Eventuali dati indicati in grigio sono stimati.

Configuration costs

Constitution [€]	15000
Third-party services [€/year]	2000
Staff [€/year]	5000
Fee to third-party Referent of configuration	
Measuring devices [€/unit]	100
Monitoring system [€/year/POD]	0

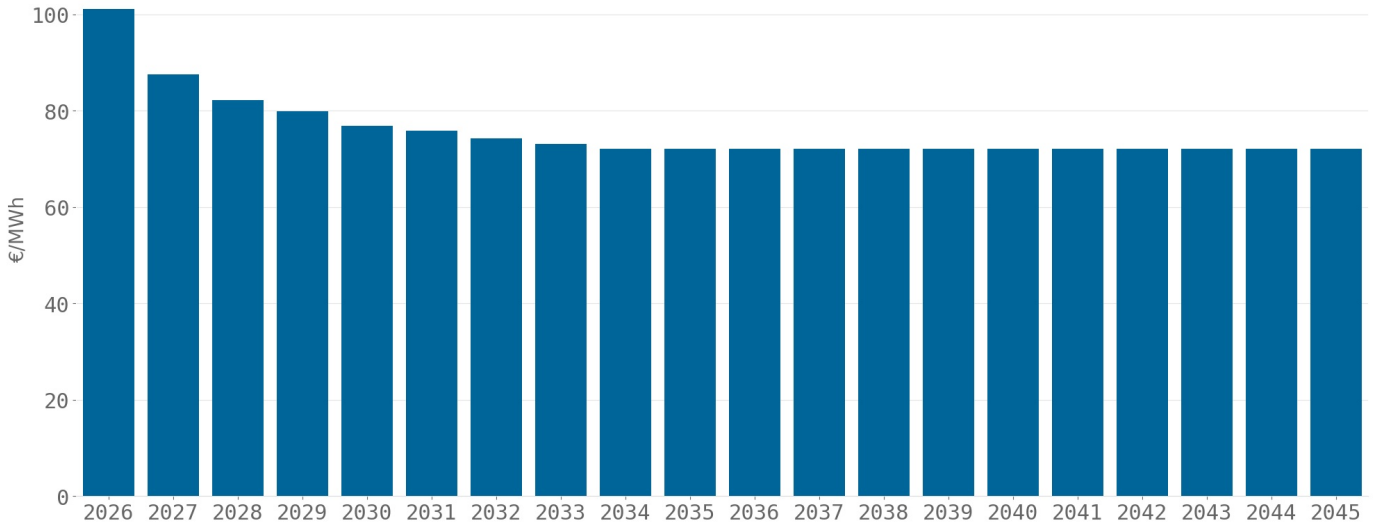
Membership fee

Registration [€]	
Yearly [€/year]	

Use of configuration's revenues

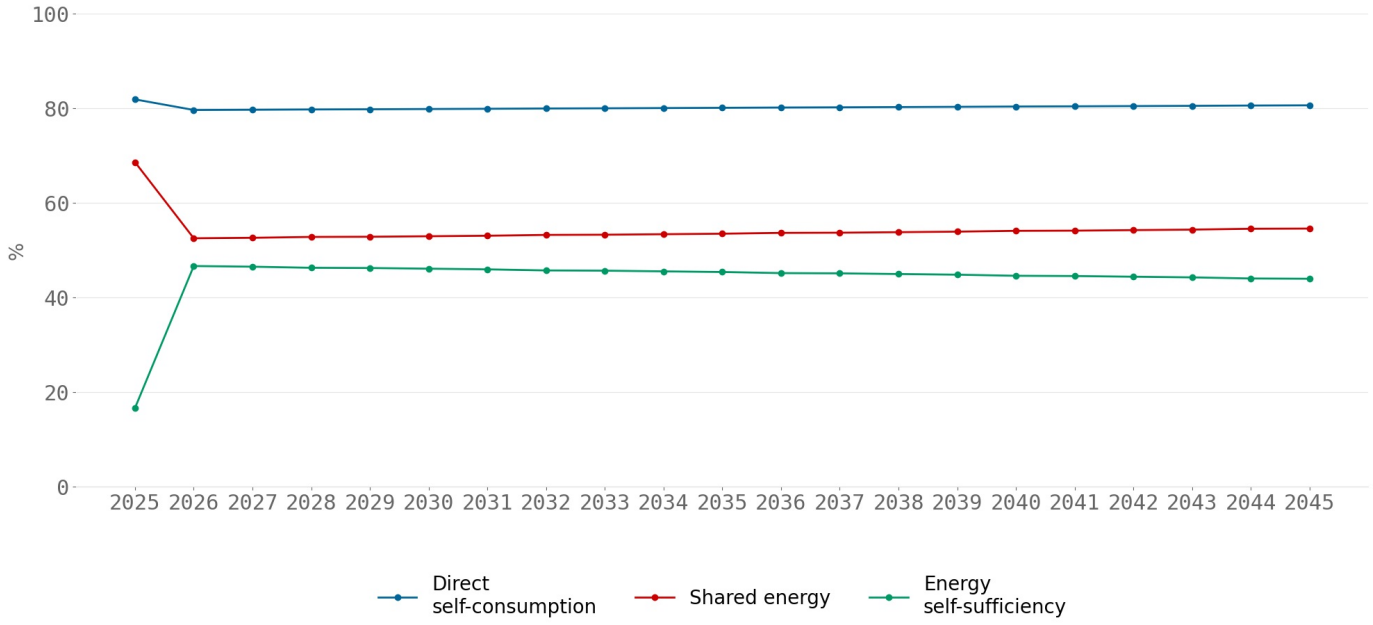
Calculation basis	income before tax
Use percentage [%]	70
Service supply percentage [%]	80

Average yearly reference electricity prices

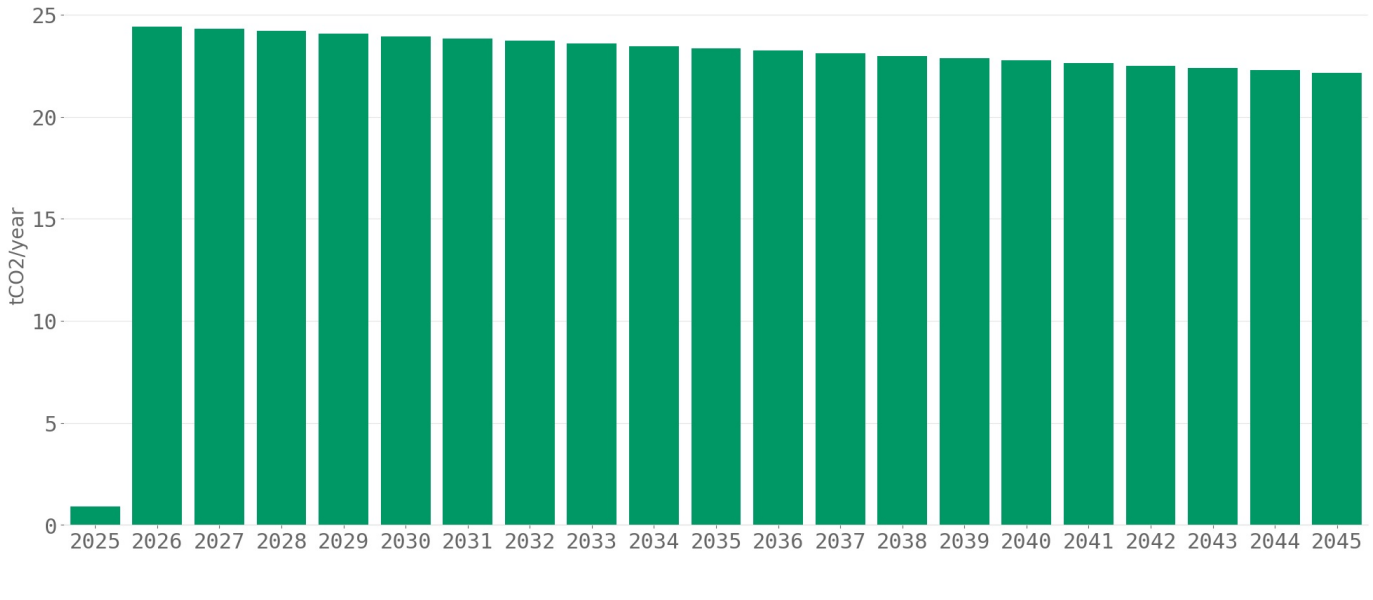


Risultati della simulazione

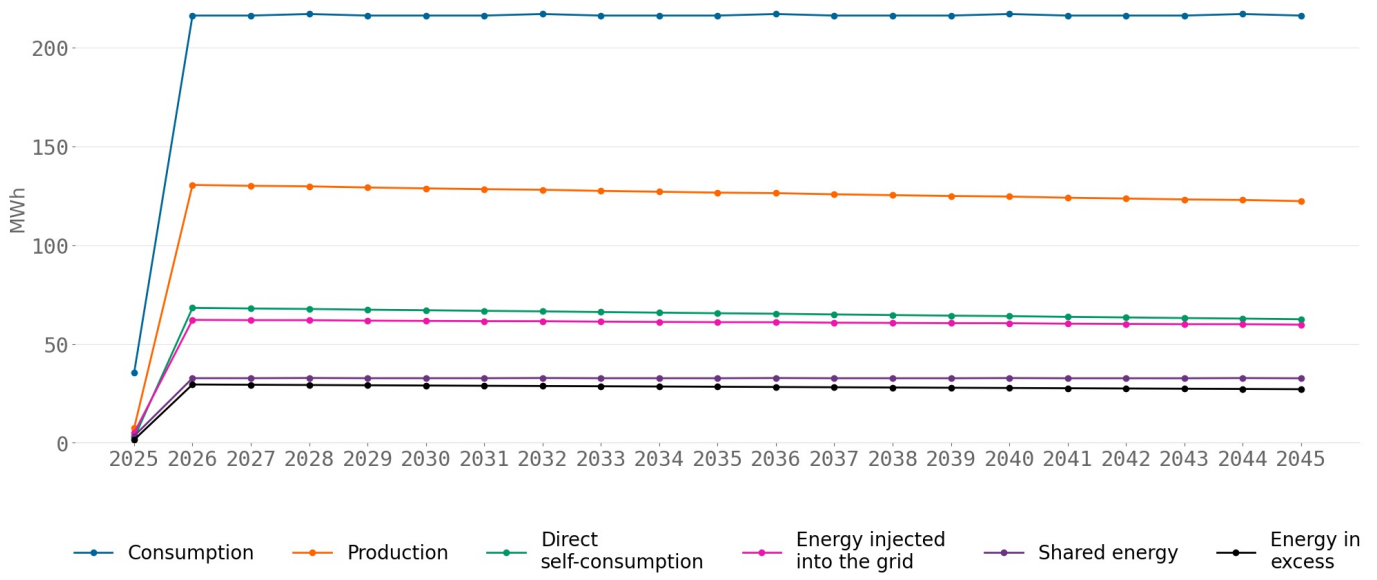
Configuration energy performance indexes



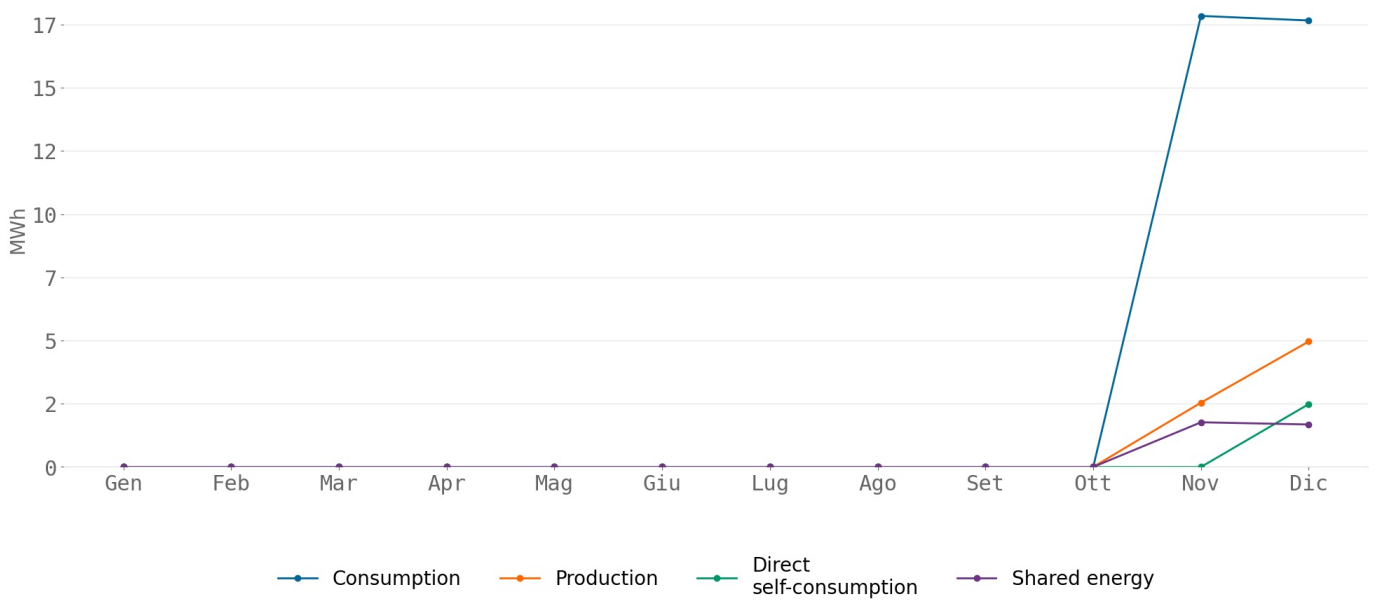
Yearly avoided CO2 emissions



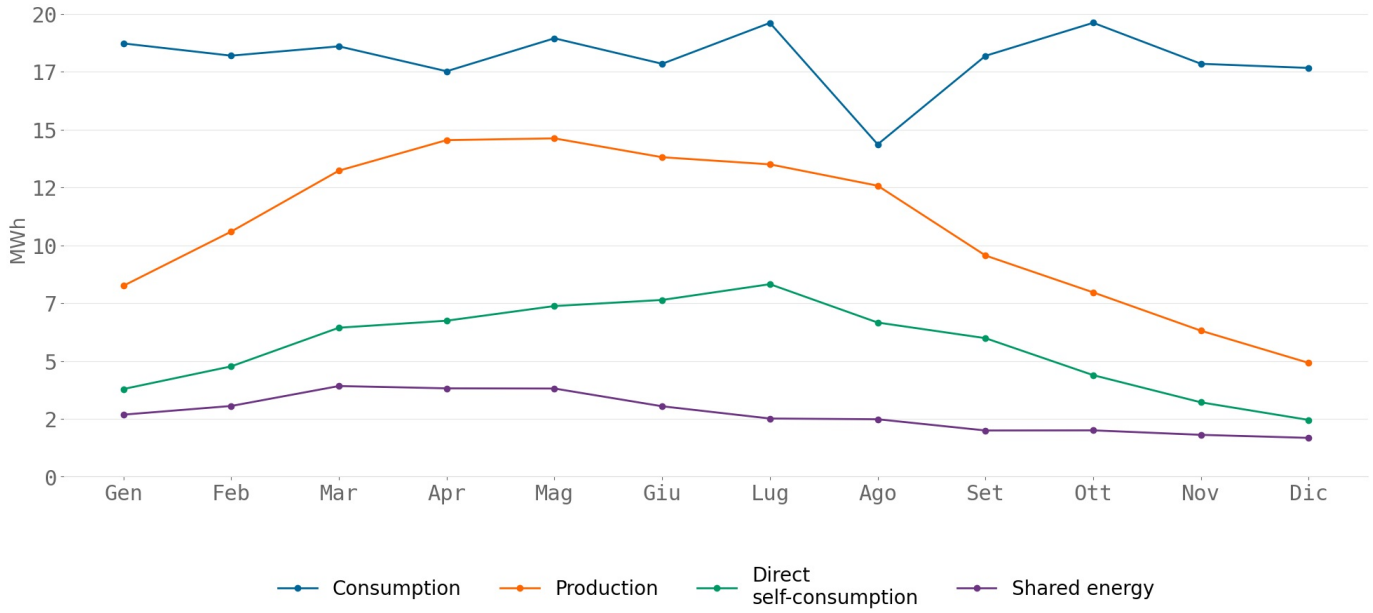
Yearly energy performance of configuration



Monthly energy performance of the configuration - year 2025



Monthly energy performance of the configuration - year 2028



Power plants available in the configuration

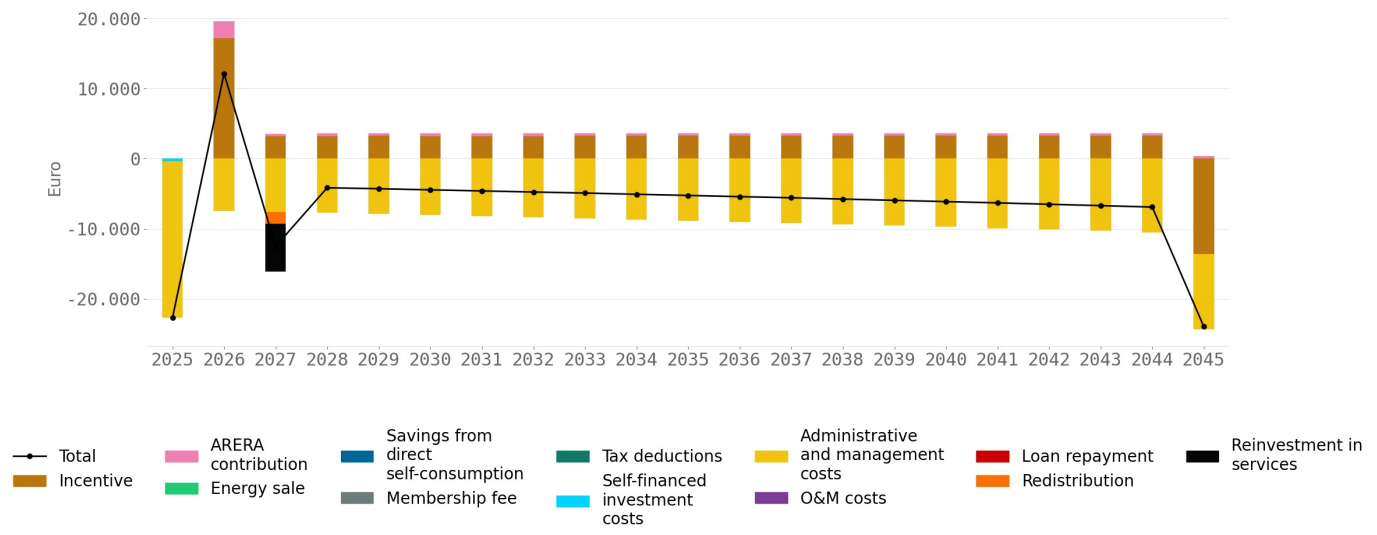
Total photovoltaic area	Total photovoltaic power	Total hydroelectric power	Total wind power
350,0 m2	**70,0** kW	**0,0** kW	**250,0** kW

Share of power from existing power plants (in operation before 12/16/2021)	Share of power eligible for incentive
0,0 %	**78,1** %

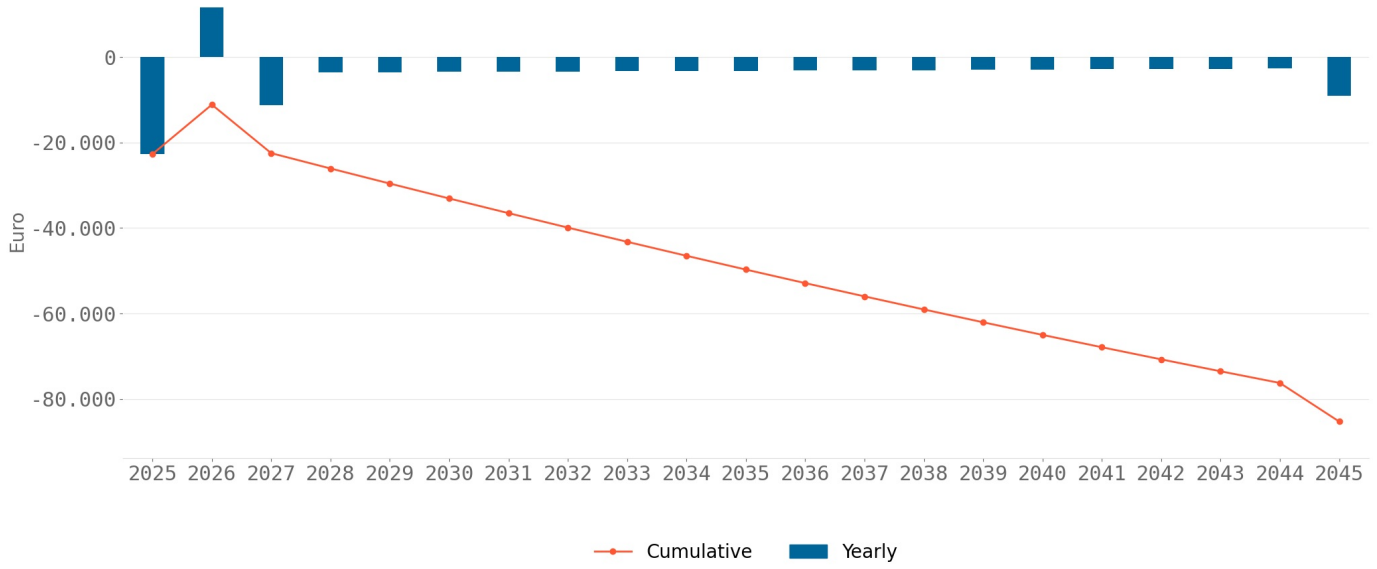
Financial performance indexes

NPV over 20 years	Internal Rate of Return	WACC
-85275,8 euro	**N.A.**	**5,0** %

Non-discounted cashflows by type



Discounted cashflows



Liability limitations

RECON performs preliminary economic-financial simulations considering the potential contribution of public grants, incentives, and tax deductions. The estimates do not take into account any additional constraints set by the regulations governing the recognition of incentives, public grants, and tax deductions, which will be evaluated and subject to checks by the competent authorities according to the law, exclusively within the admission and control procedures, to be carried out in accordance with the relevant regulations. The results of RECON cannot be used in any way to make any claims against such authorities, including regarding the outcomes of the aforementioned procedures, nor can they be considered as verification of the requirements for accessing these incentives, grants, and tax deductions, nor can they create any expectation in this regard.