

Sheet: Testing

Configuration personal data

Sheet name	Testing
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)
abiyu	citizen	abiyu	9	9	consumer	residential	
pV1	REC	pV1	1	0	producer		PV (2)
hydro1	local authority	hydro1	1	0	producer		hydro (1)
wind1	local authority	wind1	1	0	producer		wind (1)
nicole	citizen	nicole	1	0	prosumer	residential	PV (2)

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

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)
lukas institute	research or training institution	lukas institute	6	6	consumer	school	
avo	religious institution	avo	5	5	consumer	custom schedule	

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

Photovoltaic power plants

User name (POD name)	pv1 (pv1)	pv1 (pv1)	nicole (nicole)	nicole (nicole)
Production unit	1	2	1	2
Producer *	pv1	pv1	nicole	nicole
Owner	same as producer	same as producer	REC	REC
Plant status	not operational	not operational	not operational	not operational
Commissioning date	17-11-2025	17-11-2025	17-11-2025	01-01-2026
Eligible for incentives	yes	yes	yes	yes
Already incentivized under Art. 42 bis DL 162/2019	no	no	no	no
Power [kW]	200	200	110	110
Mandatory power [kW]			0	
Installation type	on ground	on ground	building	building
Exposure 1 - power / tilt / orientation	200 kW / 23° / 0°	200 kW / 23° / 0°	110 kW / 23° / 0°	110 kW / 23° / 0°
Exposure 2 - power / tilt / orientation				
Electricity selling strategy	Dedicated Withdrawal	Dedicated Withdrawal	Dedicated Withdrawal	Dedicated Withdrawal
Electricity price in free market [cent €/kWh]				
RID transferred to configuration	yes	yes	yes	yes
Yearly O&M costs [€/kW/year]	5	5	5	5
Extraordinary O&M costs [€/kW]	90	90	90	90

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

Hydroelectric power plants

User name (POD name)	hydro1 (hydro1)
Production unit	1
Producer *	hydro1
Owner	same as producer
Plant status	not operational
Commissioning date	01-01-2026
Eligible for incentives	yes
Already incentivized under Art. 42 bis DL 162/2019	no
Power [kW]	300
River cluster	alpine
Available head [m]	10
Average annual flow rate [m3/s]	30
Electricity selling strategy	Dedicated Withdrawal
Electricity price in free market [cent €/kWh]	
RID transferred to configuration	yes
Yearly O&M costs [€/kW/year]	120
Extraordinary O&M costs [€/kW]	150

* 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)	wind1 (wind1)
Production unit	1
Producer *	wind1
Owner	same as producer
Plant status	not operational
Commissioning date	25-12-2025
Eligible for incentives	yes
Already incentivized under Art. 42 bis DL 162/2019	no
Power [kW]	80
Installation site characteristics	open, limited medium height obstacles
Site altitude [MASL]	200
Wind speeds - minimum / nominal / maximum	2 / 13 / 25 m/s
Hub height [m]	28,5
Electricity selling strategy	Dedicated Withdrawal
Electricity price in free market [cent €/kWh]	
RID transferred to configuration	yes
Yearly O&M costs [€/kW/year]	20
Extraordinary O&M costs [€/kW]	90

* 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)	pv1 (pv1)	pv1 (pv1)	nicole (nicole)
Plant technology	photovoltaic	photovoltaic	photovoltaic
Production unit	1	2	1
Commissioning date	17-11-2025	17-11-2025	17-11-2025
Investment type	loan	equity	at REC's expense
Unitary investment cost [€/kW]	1200	1200	1200 (CER)
Total investment [€]	240000	240000	132000 (CER)
Loan: share of investment costs [%]	1		1
Loan: interest rate [%]	2		2
Loan: duration [years]	10		10
Fee: type			fixed monthly
Fee: value			750 €/mese
Fee: duration [years]			20
Final installment [€]			
TAN [%]			
EU subsidies	NRRF M2C2 I1.2	none	none
EU subsidy percentage	40		
Maximum reference cost [€/kW]	1200		
Other non-EU subsidies	no	no	no
Non-EU subsidy percentage			
Maximum reference cost [€/kW]			
Subsidy percentage (for third-party producers)			
50% tax deductions			no
Superbonus			

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

Power plants - investment

User name (POD name)	wind1 (wind1)	hydro1 (hydro1)	nicole (nicole)
Plant technology	wind	hydroelectric	photovoltaic
Production unit	1	1	2
Commissioning date	25-12-2025	01-01-2026	01-01-2026
Investment type	equity	loan	at REC's expense
Unitary investment cost [€/kW]	5000	4000	1200 (CER)
Total investment [€]	400000	1200000	132000 (CER)
Loan: share of investment costs [%]		1	1
Loan: interest rate [%]		2	2
Loan: duration [years]		10	10
Fee: type			on production
Fee: value			1 €/kWh
Fee: duration [years]			20
Final installment [€]			
TAN [%]			
EU subsidies	none	other EU subsidy	none
EU subsidy percentage		40	
Maximum reference cost [€/kW]		300	
Other non-EU subsidies	no	no	no
Non-EU subsidy percentage			
Maximum reference cost [€/kW]			
Subsidy percentage (for third-party producers)			
50% tax deductions			no
Superbonus			

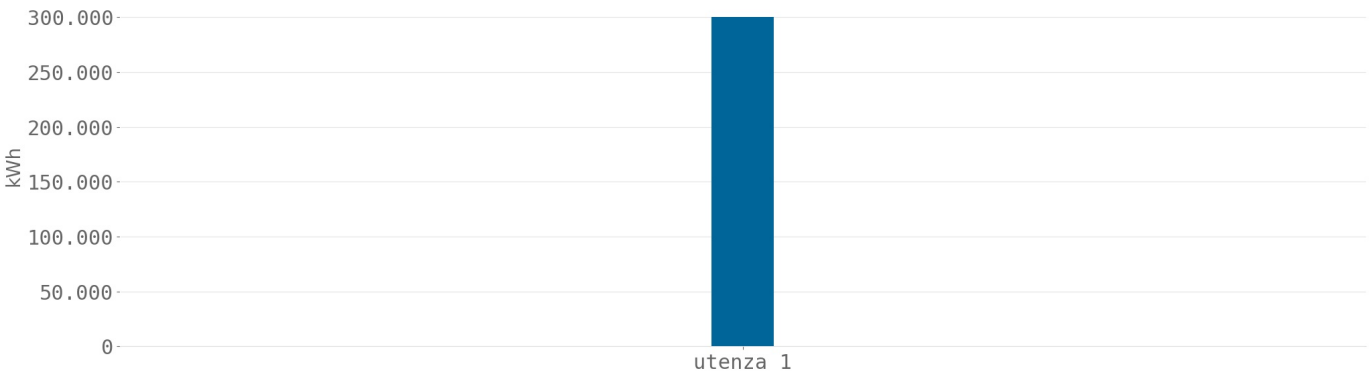
N.B. Gli impianti/UP sono ordinati per data di entrata in esercizio crescente.
Eventuali dati indicati in grigio sono stimati.

End customers

Username	POD name	Type	Power meter [kW]	Withdrawal availability	Final use	Electric energy price * [cent €/kWh]
abiyyu	abiyyu	consumer	< 3	yearly	residential	
nicole	nicole	prosumer	3	yearly	residential	100,0
lukas institute	lukas institute	consumer		yearly, by ARERA time bands	school	
avo	avo	consumer		yearly, by ARERA time bands	custom schedule	

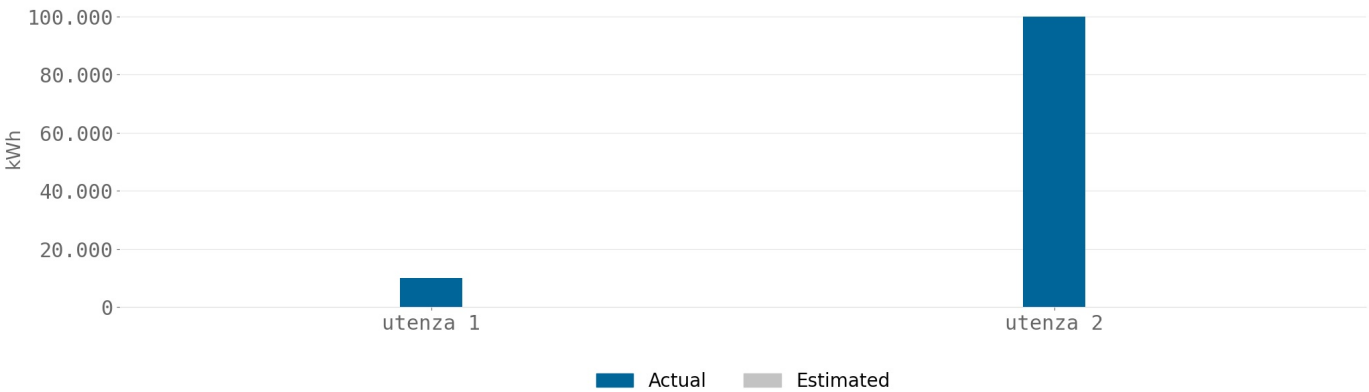
* Valore della quota energia (in euro/kWh) per la voce "spesa per la materia energia" ricavabile dalla bolletta, IVA esclusa.
N.B. Eventuali dati indicati in grigio sono stimati.

Annual withdrawals - Generic utilities with activity profile



utenza 1: avo (avo)

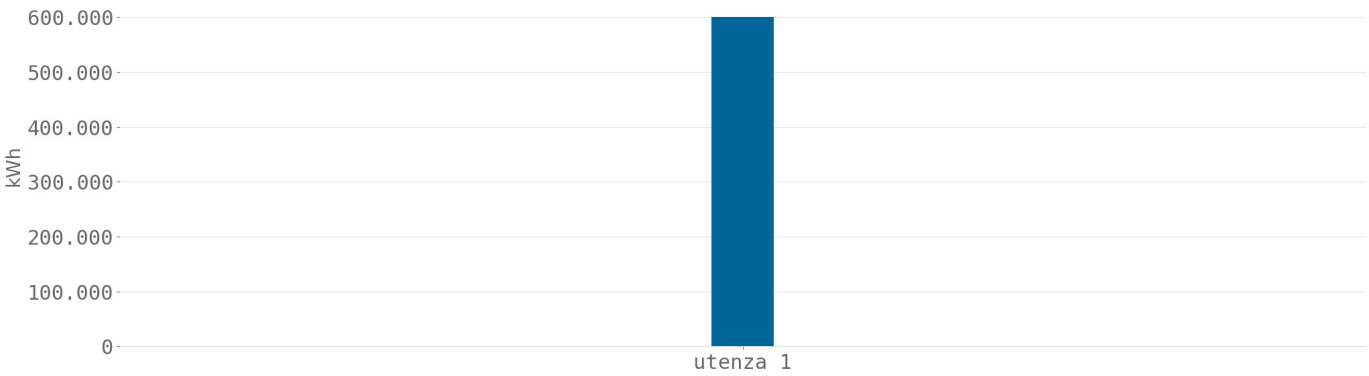
Annual withdrawals - Residential utilities



utenza 1: abiyu (abiyu)

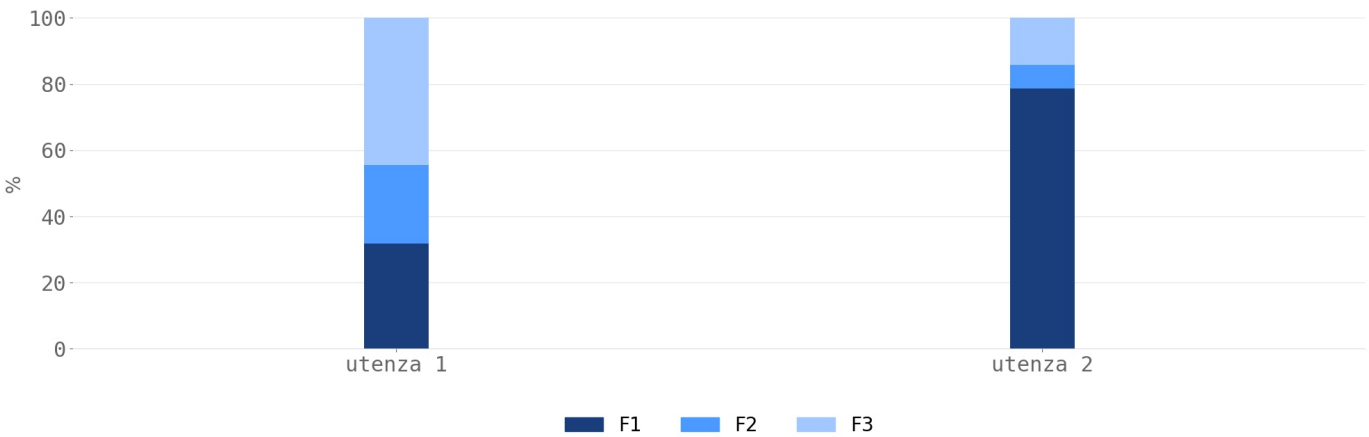
utenza 2: nicole (nicole)

Annual withdrawals - School utilities



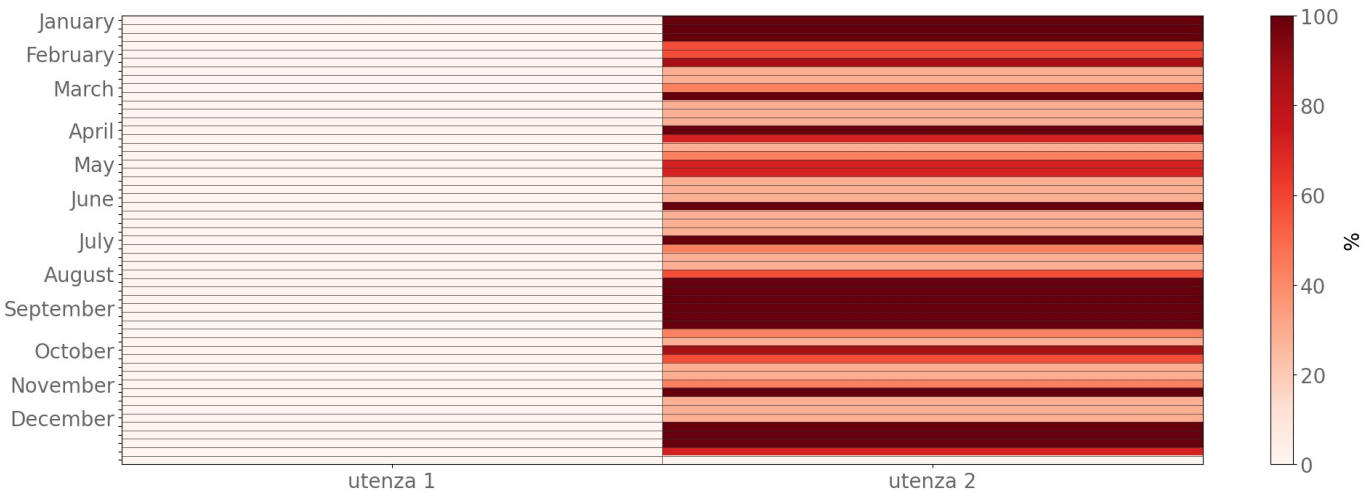
utenza 1: lukas institute (lukas institute)

Distribution by activity hours



utenza 1: avo (avo)
utenza 2: lukas institute (lukas institute)

Weekly percentage of closing or non-activity days



utenza 1: avo (avo)
utenza 2: lukas institute (lukas institute)

Power plant parameters

Extraordinary maintenance frequency [years]:	
- Photovoltaic	11
- Wind	11
- Hydroelectric	11
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 [€]	100000
Third-party services [€/year]	10000
Staff [€/year]	100000
Fee to third-party Referent of configuration	
Measuring devices [€/unit]	100
Monitoring system [€/year/POD]	10

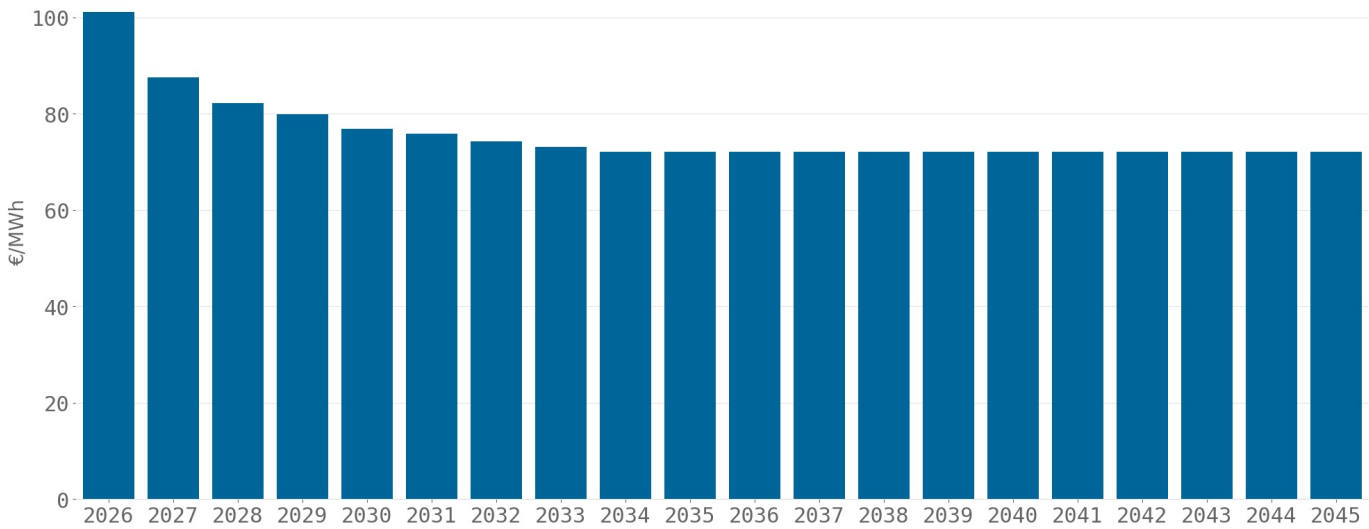
Membership fee

Registration [€]	
Yearly [€/year]	

Use of configuration's revenues

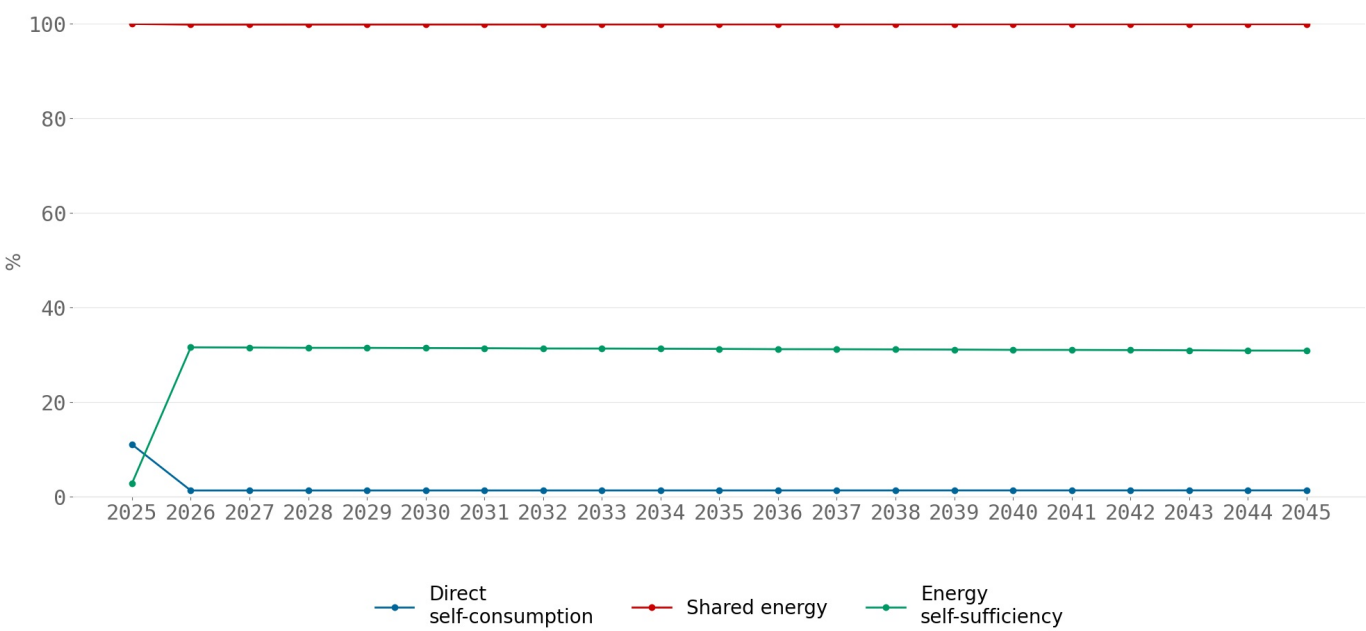
Calculation basis	income before tax
Use percentage [%]	60
Service supply percentage [%]	50

Average yearly reference electricity prices

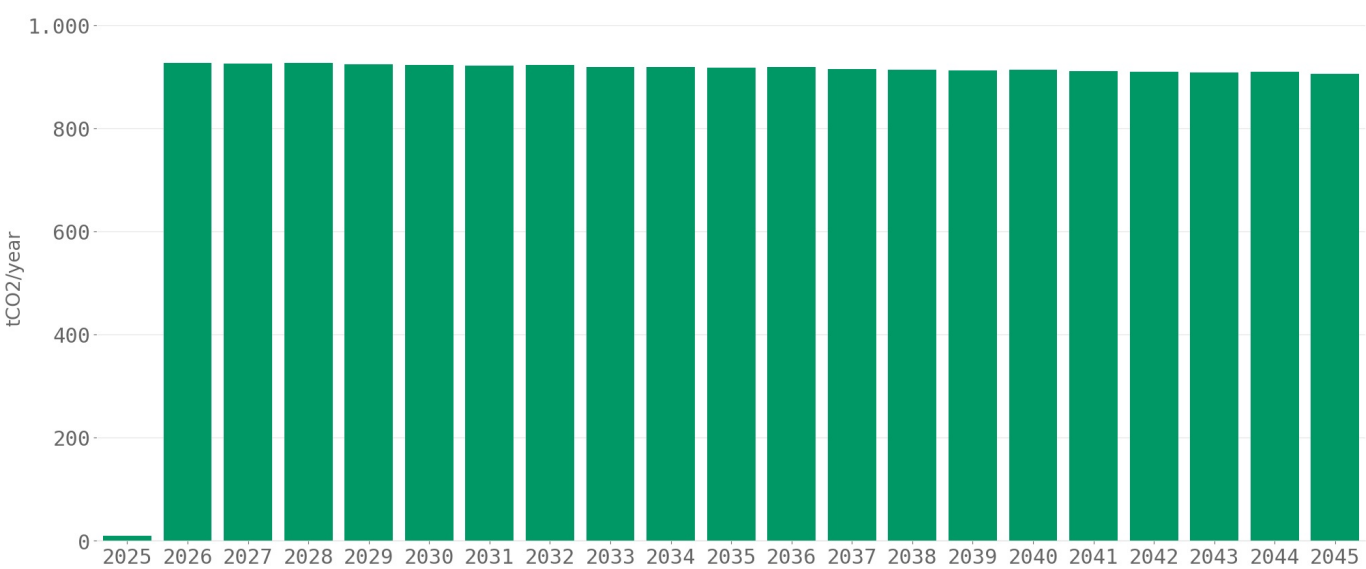


Risultati della simulazione

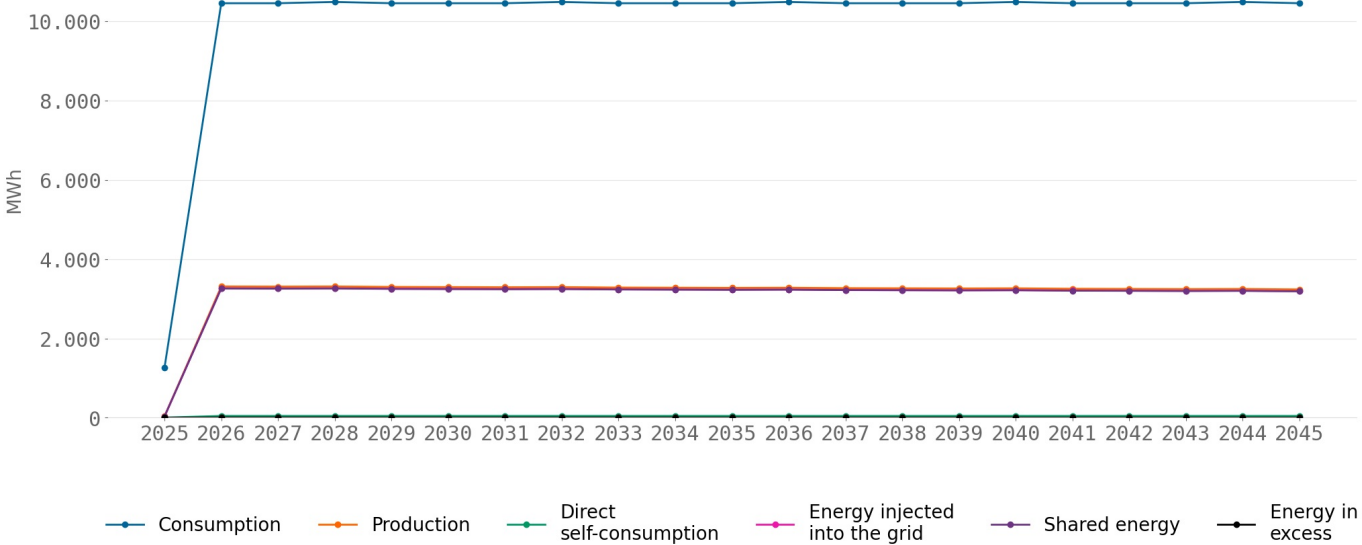
Configuration energy performance indexes



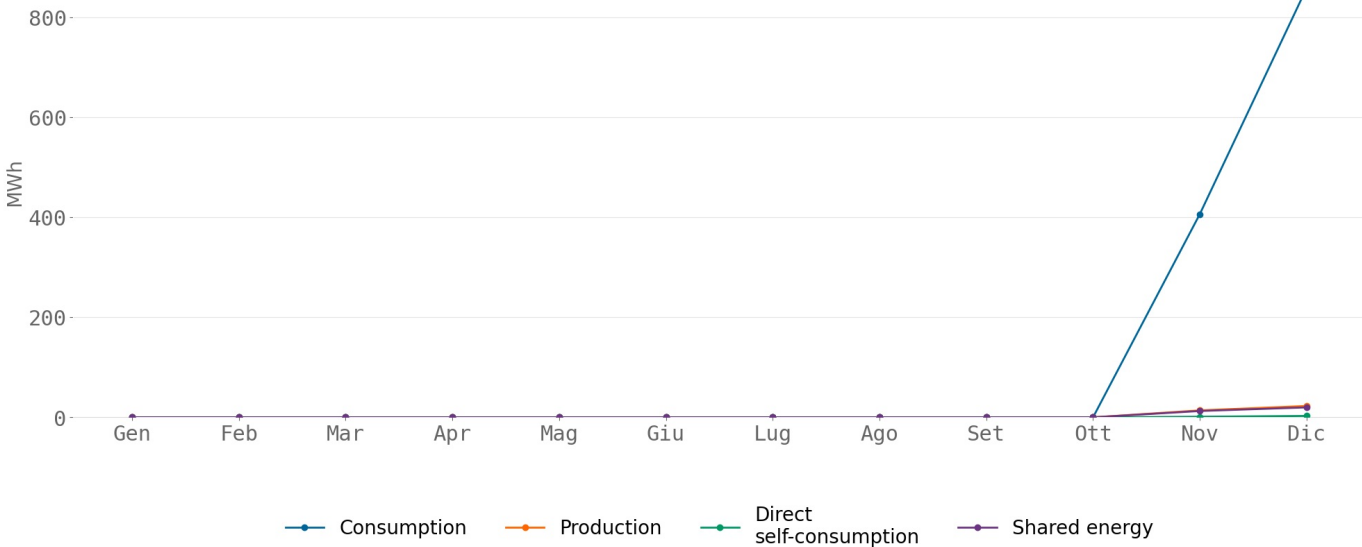
Yearly avoided CO2 emissions



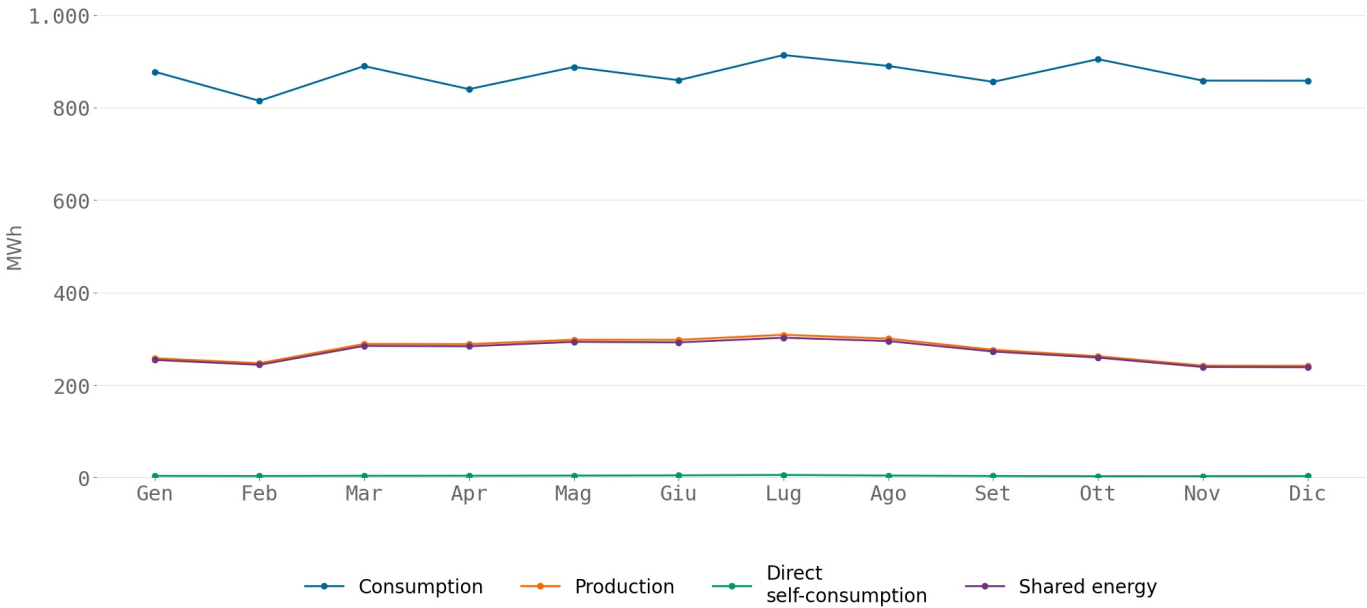
Yearly energy performance of configuration



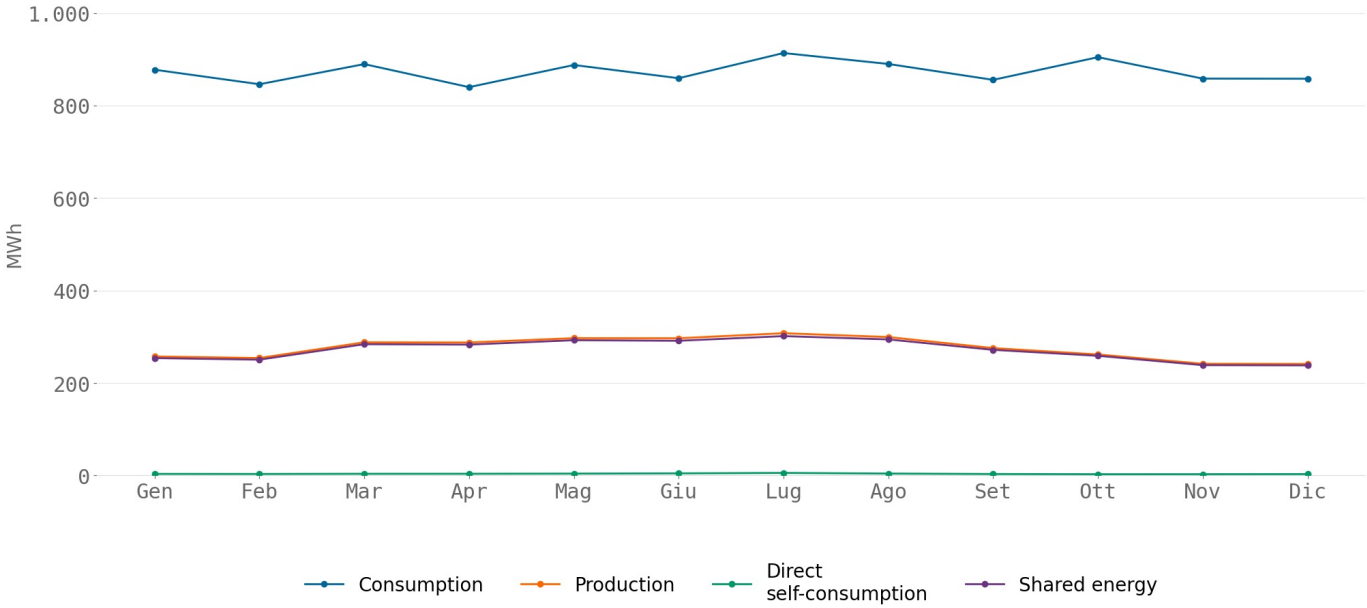
Monthly energy performance of the configuration - year 2025



Monthly energy performance of the configuration - year 2026



Monthly energy performance of the configuration - year 2028



Power plants available in the configuration

Total photovoltaic area

3100,0
m2

Total photovoltaic power

620,0
kW

Total hydroelectric power

300,0
kW

Total wind power

80,0
kW

Share of power from
existing power plants (in
operation before
12/16/2021)

0,0
%

Share of power eligible
for incentive

100,0
%

Configuration costs of investment

Initial costs

848400,0
euro

Loan

5040,0
euro

Equity

747360,0
euro

NRRF subsidy

96000,0
euro

Other EU subsidies

0,0
euro

Other non-EU subsidies

0,0
euro

Tax deductions

0,0
euro

Financial performance indexes

NPV over 20 years

2776584,5
euro

Internal Rate of Return

42,7
%

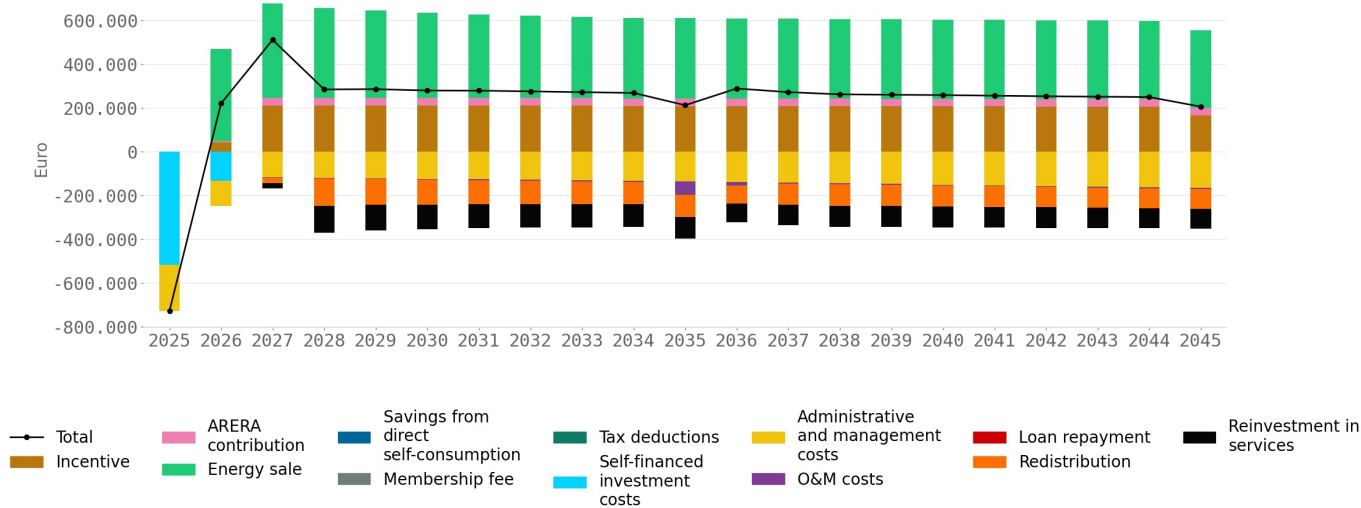
WACC

5,0
%

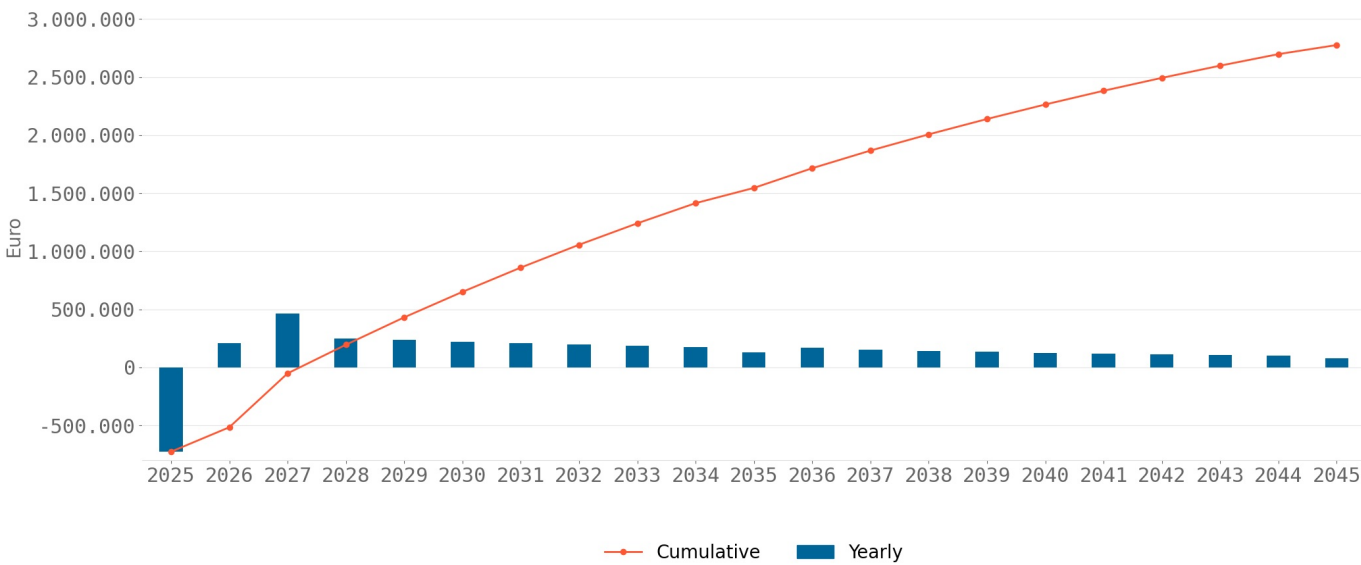
Loan interest

855,4
euro

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.