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ASOLEAR C./ Moby Dick, 30 29004 MALAGA 11/15/21



## Direccion:

12, Puerta del Sol, Barrio de los Austrias, Sol, Centro, Madrid, Área metropolitana de Madrid y Corredor del Henares, Comunidad de Madrid, 28013, España

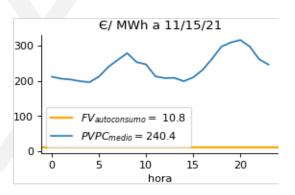
Estudio FV Residencial
Latitud 40.4
Longitud -3.7
Ubicacion Cubierta de Nave Industrial
Orientacion Sur
Perfil\_de\_consumo Bloque\_de\_viviendas
Consumo 3650

Temperatura\_media 14.7 fdas Radiacion\_diaria\_media 4.95 kWh/m2/dia Velocidad viento media 2.7 m/s

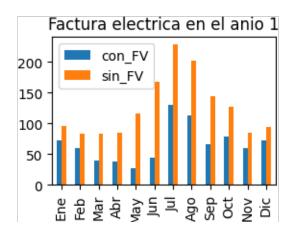


## FV Residencial, sistema propuesto

Potencia\_instalacion 4.0 kWp Energia\_generada 6022.4 kWp Coste\_instalacion 10886.0 € Periodo\_Amortizacion 13.4 años Precio\_de\_la\_luz 10.8 €/MWh







```
Prop.25.0 Ver Residencial
cl. Financial Parameters. loan_rate
5.0

* Tax and Insurance Rates

cl. Financial Parameters. insurance_rate
0.5

cl. Financial Parameters. property_tax_rate
0.0

cl. TaxCreditIncentives.itc_fed_percent
26.0

* Electricity Demand and Rate Summary

max(ur.Outputs.year1_monthly_peak_w_system)
4.2

ur.Outputs.year1_electric_load
10829.3

ur.ElectricityRates.ur_monthly_fixed_charge
10.0

* Results

cl.Outputs.lcoe_nom
10.8

cl.Outputs.npv
1998.4

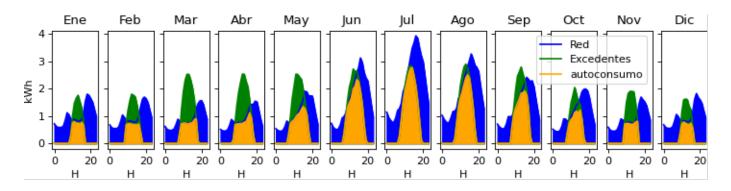
cl.Outputs.payback
13.4
```

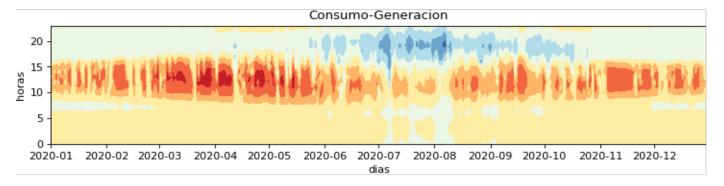
	Specs	Uds
<pre>pv.SystemDesign.system capacity</pre>	4.00	kW
pv.SystemDesign.dc ac ratio	1.20	
pv.Outputs.inverter efficiency	96.00	
pv.SystemDesign.tilt	20.00	
pv.SystemDesign.azimuth	0.00	
pv.Outputs.lat	40.42	
pv.Outputs.lon	-3.70	
pv.SystemDesign.losses	14.08	

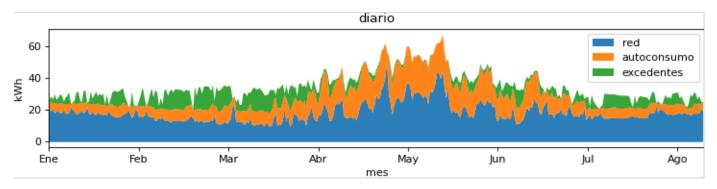
Enero Febrero Marzo Abril Mayo Junio Julio Agosto Septiembre	kWh/m²/dia 2.95 3.45 5.72 6.02 6.53 7.52 7.77 7.39 6.65 4.12	kWh 302.67 313.11 553.81 557.22 610.77 659.43 699.33 668.84 604.37 398.36
Noviembre Diciembre	3.83 2.85	364.50 289.96

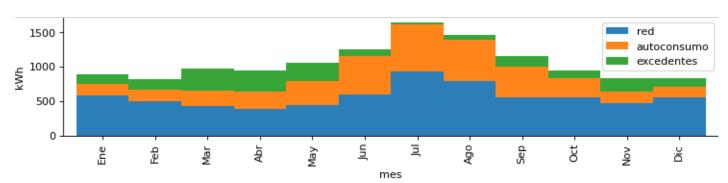
Financial Model	
* Project Costs	
cl.Outputs.adjusted_installed_cost	10886.0
* Analysis Parameters	
cl.FinancialParameters.inflation_rate	2.5
cl.FinancialParameters.real discount rate	6.4
cl.FinancialParameters.analysis period	25.0
* Project Debt Parameters (Mortgage)	
cl.FinancialParameters.debt fraction	100.0
cl.Outputs.loan amount	10886.0
cl.FinancialParameters.loan term	25.0
cl.FinancialParameters.loan rate	5.0
* Tax and Insurance Rates	
cl.FinancialParameters.insurance rate	0.5
cl.FinancialParameters.property tax rate	0.0
cl.TaxCreditIncentives.itc fed percent	26.0
* Electricity Demand and Rate Summary	
<pre>max(ur.Outputs.year1 monthly peak w system)</pre>	4.2
ur.Outputs.year1 electric load	10829.3
ur.ElectricityRates.ur monthly fixed charge	10.0
* Results	20.0
cl.Outputs.lcoe nom	10.8
cl.Outputs.npv	1998.4
cl.Outputs.payback	13.4
-ceroacpaes rpaybaen	<u> </u>

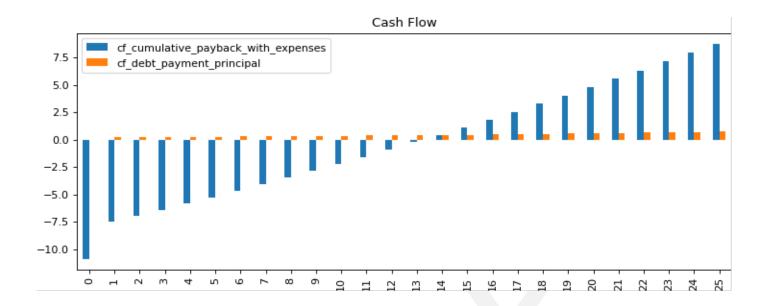
summary pv.Outputs.annual_energy pv.Outputs.capacity_factor pv.Outputs.kwh_per_kw cl.Outputs.lcoe_nom cl.Outputs.lcoe_real ur.Outputs.utility_bill_wo_sys[1] ur.Outputs.utility_bill_w_sys[1] cl.Outputs.npv cl.Outputs.payback cl.Outputs.total_cost	6022.4 17.2 1505.6 10.8 8.7 1513.8 805.2 1998.4 13.4
cl.Outputs.total_cost	10886.0

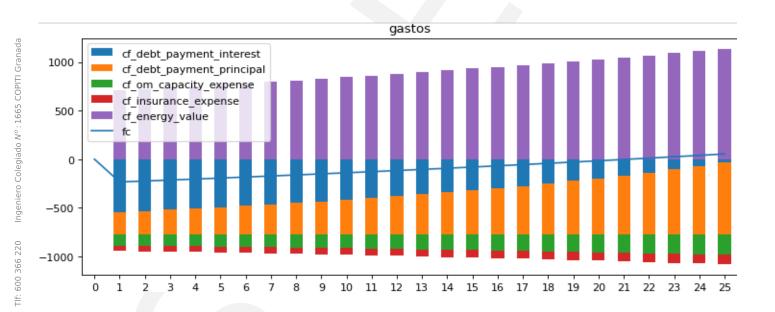












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Periodo	E/kWh
	0.10 0.05
	0.20
	0.25

tarifas				
11111111111	22222	333331111		
11111111111	22222	333331111		
11111111111	22222	3 3 3 3 3 1 1 1 1		
1111111111	22222	333331111		
11111111111	11111	444441111		
1111111111	11111	444441111		
11111111111	11111	444441111		
1111111111	11111	444441111		
11111111111	11111	444441111		
11111111111	11111	444441111		
11111111111	22222	333331111		
11111111111	22222	3 3 3 3 3 1 1 1 1		

