

Simplified input form

Program EcoSol

Calculation of energy consume and costs of a energy system consisting of solar collectors, solar cells and an additional heating system.

Last name; First Name	
Street; Number	
Postal code; Town	
Country	
Telephone	
Fax	
Email	
Location of building (Town):	

	Quantity	Unit	<i>alternative unit¹</i>
<i>Latitude²</i>		°	
<i>Longitude²</i>		°	
Orientation of roof (derivation from south)		°	
Inclination of roof (Angle between roof and horizontal)		°	
Annual heating energy		kWh	
Annual energy for heating warm water for domestic use		kWh	
Heating temperature		°C	
Heating return temperature		°C	
Hot water temperature		°C	
Cold water temperature		°C	
<i>Costs of additional heating system²</i>		€	
Costs of heating energy		€/kWh	
Collector type (Manufacturer, type)			
<i>Formula to calculate collector curve²</i>			
<i>Axis intersection²</i>		-	
<i>First derivative²</i>		W/K	
<i>Area of collector module²</i>		sqm	
Costs of collector module		€	
Solar storage (Manufacturer, type)			
<i>Volume of storage²</i>		l	
Costs of storage		€	

Additional costs of thermal solar system		€	
Subvention of thermal solar system		€	
Additional subvention per sqm collector area		€/sqm	
<i>Annual electricity consume¹</i>		<i>kWh</i>	
<i>Costs of electricity¹</i>		<i>€/kWh</i>	
<i>Solar cells (Manufacturer, type¹</i>			
<i>Efficiency solar cells^{1,2}</i>		-	
<i>Area of solar cell module^{1,2}</i>		<i>sqm</i>	
<i>Costs of solar cell module¹</i>		€	
<i>Additional costs for solar cell system¹</i>		€	
<i>Subvention of solar cell system</i>		€	
<i>Additional subventions per sqm solar cell area¹</i>		€/sqm	
<i>Remuneration for solar electricity¹</i>		€/kWh	
Interest rate for repaying the investment for the system		%	
Duration of repayment		Year	

Form per Letter, Mail or Fax to:

EcoSol
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Ernststraße 53

53757 Sankt Augustin

Fax: 02241 234447
Email: ErgoSolar@aol.com

Further information to program EcoSol and services:

www.economic-solar-energy.de

¹Data in brackets: Input, if necessary

²Data in brackets: Input, if known