

Heating with solar electric energy

1. Go to www.photovoltaics.eu/quickplan and start our planning tool.
2. In the planning step **Economy II**, please select the option „choose electricity consumption profile“ to calculate the share of self-consumption.

QuickPlan > Object data I > Object data II > Yield forecast > Economy I > **Economy II** > Economy III > Contact details > Overview > Save/Send

Profitability calculation II

Self-consumption

☒ is provided ☐ is not provided

Effective electricity price: 26

Calculation of self-consumption

☒ Choose self-consumption rate

☒ **Choose electricity consumption profile**

Mandatory for: storage solutions, electric mobility and head pump

Total share of self-consumption

25 %

Estimation of system size, yield and costs

Calculation: gross (including 25% VAT)

Calculation type and tax rate can be changed under Economy I

Increase in electricity costs, first year

Adjustment by: 10. year

Adjustment from the: 11. year

Go back to previous pages by clicking on the buttons in the upper navigation bar. Please click on the button to calculate results profitability

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- 3.** A new panel will pop up. Please indicate whether the energy use of the heat pump has already been included in the annual electricity consumption.

Load profile

The electricity consumption profile describe the distribution of the average current load on annual average at certain times of the day for workdays, Saturdays and Sundays.

Please select one of the electricity consumption profile and indicate load management?

Please choose:

- Include load management?
- Include storage solution?
- Include e-mobility?
- Include heat pump?
- Has the electricity needs of the heat pump already been included in your annual electricity consumption?
- Annual electricity consumption heat pump kWh
- Do you have a separate heat pump tariff?
- Effective electricity price heat pump ct/kWh

Go to options

- Include load management?
- Include storage solution?
- Include e-mobility?
- Include heat pump?
- Needs of the heat pump already included in annual electricity consumption?
- Annual electricity consumption heat pump kWh
- Separate heat pump tariff?
- Effective electricity price heat pump ct/kWh

On workdays **Saturdays** **Sundays** **RESET**

Distribution of the average current load of the heat pump at the annual average at certain times of the day

RESET

Distribution of the average current load of the heat pump at months

Apply settings and close panel

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4. Please use the sliders to set up the load profile of the heat pump (days / months).

Load profile

The electricity consumption profile of the heat pump is set up here. The load on annual average at certain times of the day and months.

Please select the electricity price heat pump

26 ct/kWh

Go to options

Include load management? no

Include storage solution? no

Include e-mobility? no

Heat pump? yes

Heads of the heat pump already annual electricity consumption? yes

Heat pump 4000 kWh

Heat pump tariff? yes

Heat pump 26 ct/kWh

On workdays Saturdays Sundays RESET

Distribution of the average current load of the heat pump at the annual average at certain times of the day

RESET

Distribution of the average current load of the heat pump at months

Sundays RESET

Distribution of the average current load of the heat pump at the annual average at certain times of the day

Sundays RESET

Distribution of the average current load of the heat pump at months

Apply settings and close panel

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- 5.** You can specify here if you have a special electricity plan for your heat pump. Please follow the respective provisions of your energy supplier carefully.

Load profile

The electricity consumption profile of the heat pump is entered as a load on annual average at certain times of the day.

Please select if the electricity needs of the heat pump already consumed are included in your annual electricity consumption? ☒ yes

Annual electricity consumption heat pump kWh

Do you have a separate heat pump tariff? ☒ yes

Effective electricity price heat pump ct/kWh

Go to options

- ☒ Include load management?
- ☒ Include storage solution?
- ☒ Include e-mobility?
- ☒ Include heat pump?
- ☒ Electricity needs of the heat pump already consumed are included in your annual electricity consumption?
- ☒ Annual electricity consumption heat pump kWh
- ☒ Do you have a separate heat pump tariff?
- ☒ Effective electricity price heat pump ct/kWh

On workdays **Saturdays** **Sundays** **RESET**

Distribution of the average current load of the heat pump at the annual average at certain times of the day

Sundays **RESET**

Distribution of the average current load of the heat pump at the annual average at certain times of the day

RESET

Distribution of the average current load of the heat pump at months

Apply settings and close panel

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- 6.** The data provided will be shown in the new diagram **Energy flow during the day** (workdays / Saturdays / Sundays) for each month. This includes information on the feed-in tariff, grid demand, direct self-consumption, the power generation as well as the degree of self-sufficiency in the course of the day and seasons.

Energy flow during the day (Monthly average, exemplary)

Load profile: "Household with big load fluctuations"

