# Your home energy report

Report EF-0001-ce7e35ac | 2026-10-25

## Comfort

Ground floor stayed more than 1°C above the configured cooling reference for 1 modeled hours, with a longest period of 1 hours. These periods may feel warm. First floor stayed more than 1°C above the configured cooling reference for 3 modeled hours, with a longest period of 2 hours. These periods may feel warm.

## Main energy uses

Lights and appliances electricity: 4,497 kWh. Electricity charged to the EV: 2,000 kWh. Hot water electricity: 1,997 kWh.

## Your bill

Total modelled annual energy cost: 935 EUR.

## What to test

Compare a shading or cooling configuration change in a new simulation.

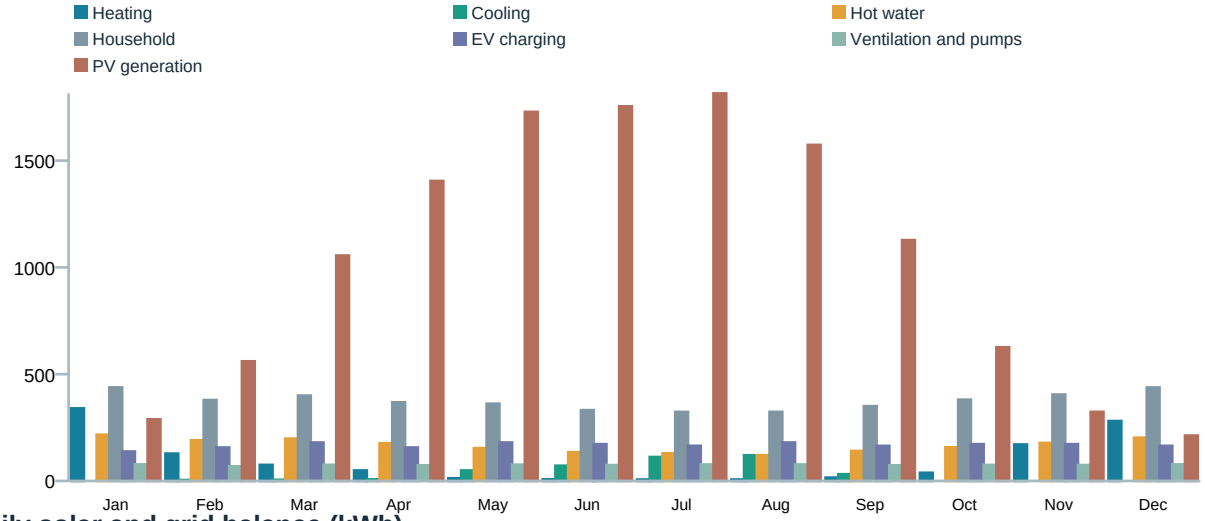
## Run overview

| Result | Value | Scope |
|---|---|---|
| Floor area | 300.0 m² | modelled, all storeys |
| Heated floor area | 282.0 m² | modelled, heated zones |
| Weather source | Typical meteorological year | simulation period |
| Weather year | Unavailable | simulation period |
| Useful space-heating energy | 4,181.0 kWh | annual thermal output |
| Useful space-cooling energy | 2,890.2 kWh | annual thermal output |
| Fuel input | 0.0 kWh | annual energy input/output |
| Grid electricity imported | 4,392.5 kWh | annual energy input/output |
| Solar electricity generated | 12,469.4 kWh | annual energy input/output |
| Total modelled annual energy cost | 934.5 EUR | annual modelled cost |

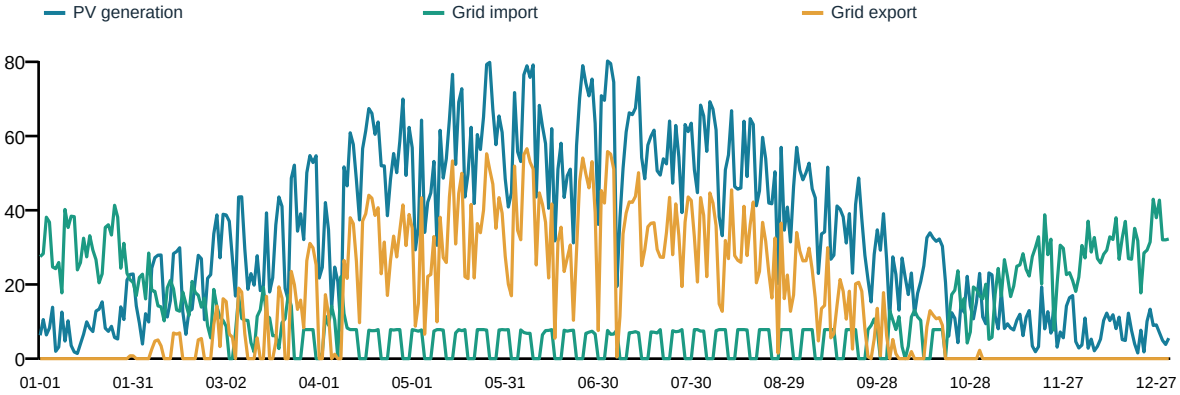
Results use the saved run data. Unavailable fields are shown as unavailable, not as zero.

# Energy through the year

## Monthly electricity and solar generation (kWh)




## Daily solar and grid balance (kWh)



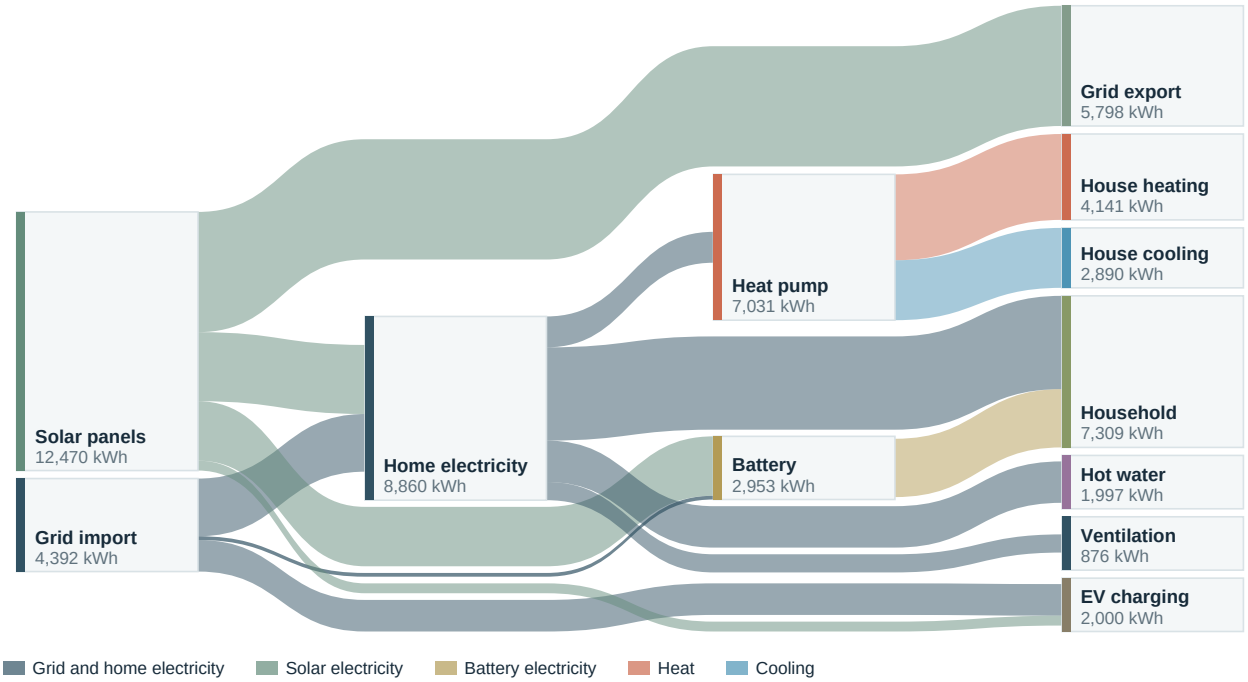

## End-use and cost details

| Item | Value | Unit | Scope |
|---|---|---|---|
| Useful space-heating energy | 4,181.0 | kWh | annual thermal output |
| Useful space-cooling energy | 2,890.2 | kWh | annual thermal output |
| Fuel input | 0.0 | kWh | annual energy input/output |
| Heat pump electricity for heating | 1,089.5 | kWh | annual energy input/output |
| Heat pump electricity for cooling | 400.2 | kWh | annual energy input/output |
| Air-conditioning electricity | 0.0 | kWh | annual energy input/output |
| Backup-heater electricity | 39.9 | kWh | annual energy input/output |
| Ventilation electricity | 876.0 | kWh | annual energy input/output |
| Solar electricity generated | 12,469.4 | kWh | annual energy input/output |
| Grid electricity imported | 4,392.5 | kWh | annual energy input/output |
| Electricity exported to grid | 5,797.6 | kWh | annual energy input/output |
| Useful hot water heat | 0.0 | kWh | annual thermal output |
| Hot water electricity | 1,997.3 | kWh | annual energy input/output |
| Electricity charged to the EV | 2,000.5 | kWh | annual energy input/output |
| EV driving energy | 1,879.0 | kWh | annual energy input/output |

| Item | Value | Unit | Scope |
|---|---|---|---|
| Lights and appliances electricity | 4,497.0 | kWh | annual energy input/output |
| Battery electricity charged | 2,953.0 | kWh | annual energy input/output |
| Battery electricity discharged | 2,812.0 | kWh | annual energy input/output |
| Solar electricity used on site | 6,672.0 | kWh | annual energy input/output |
| Grid electricity sent to battery | 88.0 | kWh | annual energy input/output |
| Battery electricity sent to home | 2,812.0 | kWh | annual energy input/output |
| Grid electricity sent to EV | 1,523.0 | kWh | annual energy input/output |
| Grid electricity sent to home | 2,781.0 | kWh | annual energy input/output |
| Solar electricity sent to battery | 2,865.0 | kWh | annual energy input/output |
| Solar electricity sent to EV | 477.0 | kWh | annual energy input/output |
| Solar electricity exported | 5,798.0 | kWh | annual energy input/output |
| Battery electricity exported | 0.0 | kWh | annual energy input/output |
| Vehicle electricity exported | 0.0 | kWh | annual energy input/output |
| Net electricity cost | 502.5 | EUR | annual modelled cost |
| Condenser heat output | 0.0 | kWh | annual energy input/output |
| Hot water heat output | 0.0 | kWh | annual energy input/output |
| Total modelled annual energy cost | 934.5 | EUR | annual modelled cost |
| Electricity cost | 934.5 | EUR | annual modelled cost |
| Fuel cost | 0.0 | EUR | annual modelled cost |
| Fixed grid charge | 432.0 | EUR | annual modelled cost |
| Net energy cost | 502.5 | EUR | annual modelled cost |
| House heating electricity | 1,129.4 | kWh | annual, by use; the uses add up to the consumption |
| Cooling electricity | 400.2 | kWh | annual, by use; the uses add up to the consumption |
| Hot water electricity | 1,997.3 | kWh | annual, by use; the uses add up to the consumption |
| Ventilation electricity | 876.0 | kWh | annual, by use; the uses add up to the consumption |
| Circulators, fans and other electricity | 21.9 | kWh | annual, by use; the uses add up to the consumption |

# System and comfort

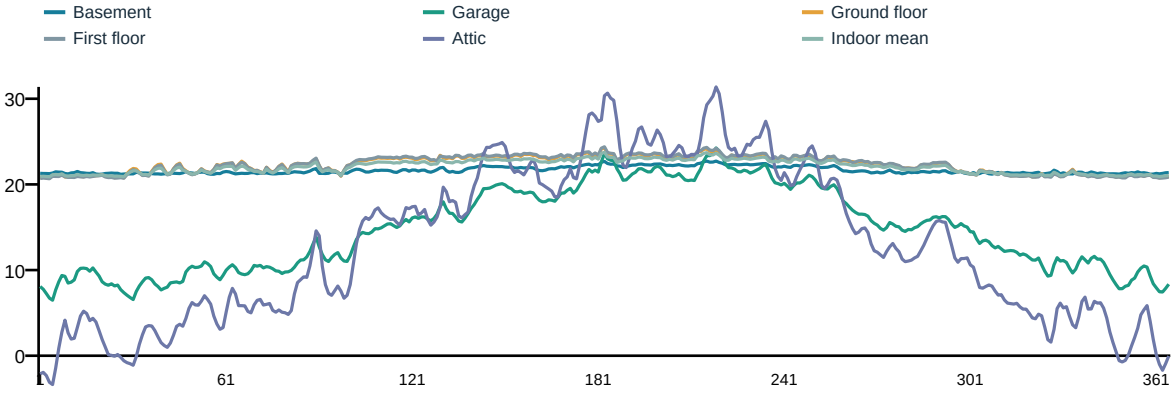
## Annual energy flows (kWh)



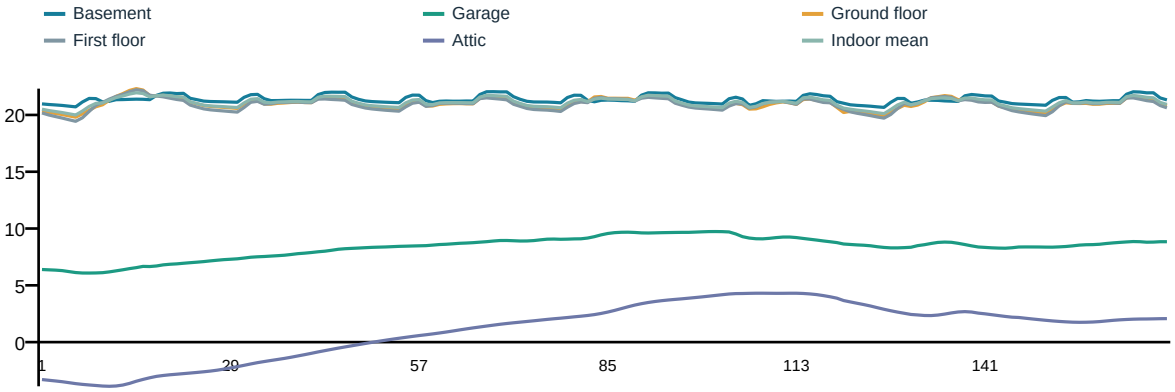

Ribbon height is proportional to annual kWh. Each card shows the energy passing through that point. Card height reserves label space and does not measure energy. Flows under 180 kWh are drawn at a minimum height. A heat pump delivers more heat than the electricity it uses because it also moves heat in from outside.

## Temperature and power trajectories

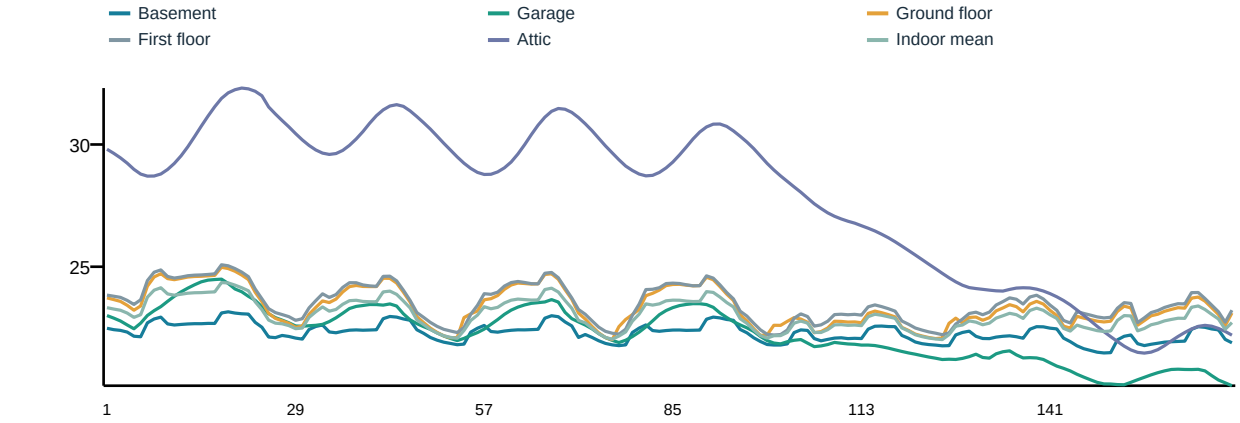
### Indoor temperature, annual daily averages (°C)



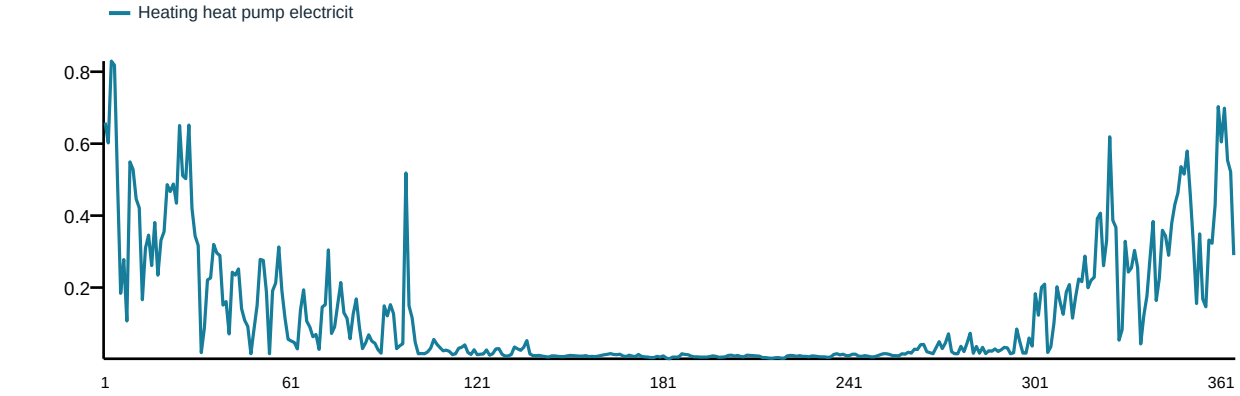

### Cold week, hourly (°C)



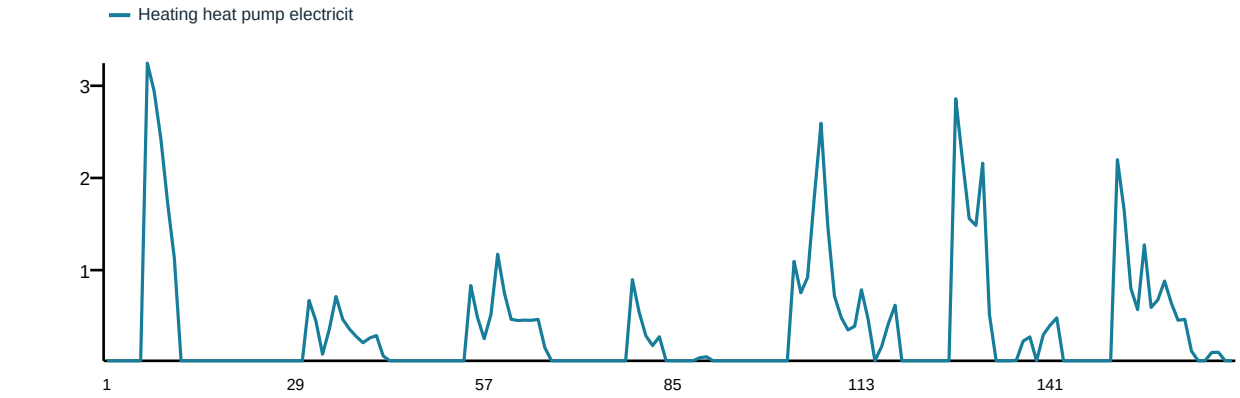
## Hot week, hourly (°C)



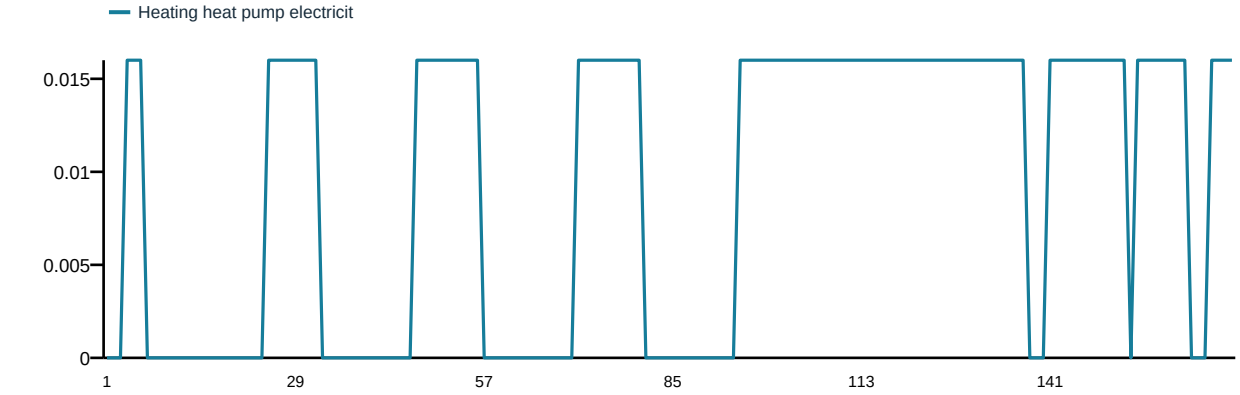

## Heating heat pump electricity, annual daily averages (kW)



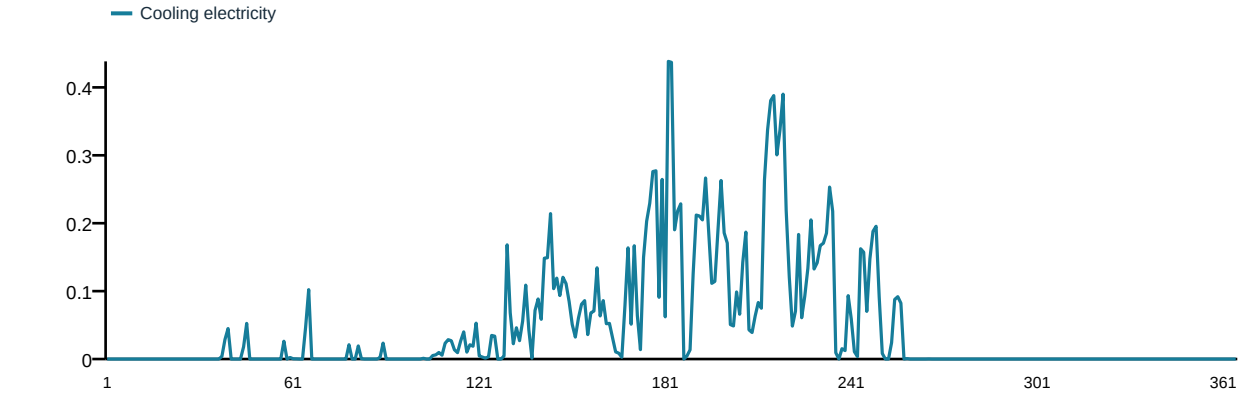

## Cold week, hourly (kW)



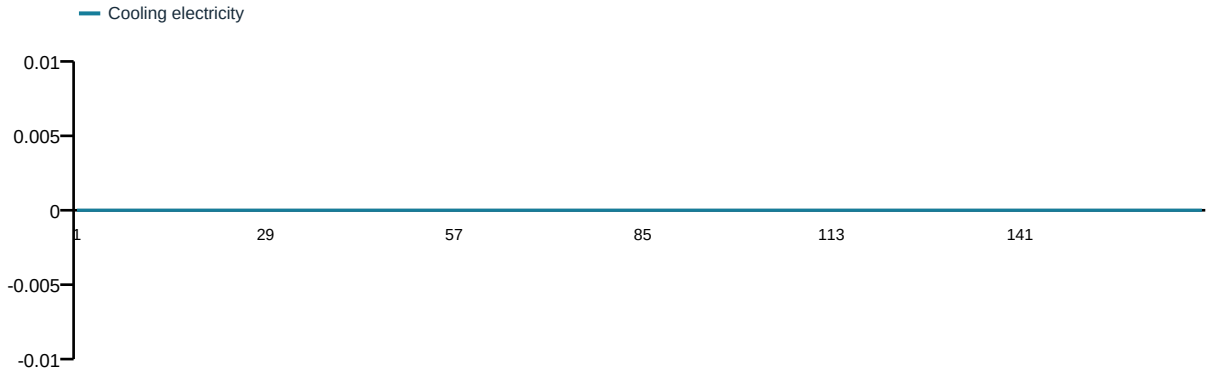

## Hot week, hourly (kW)



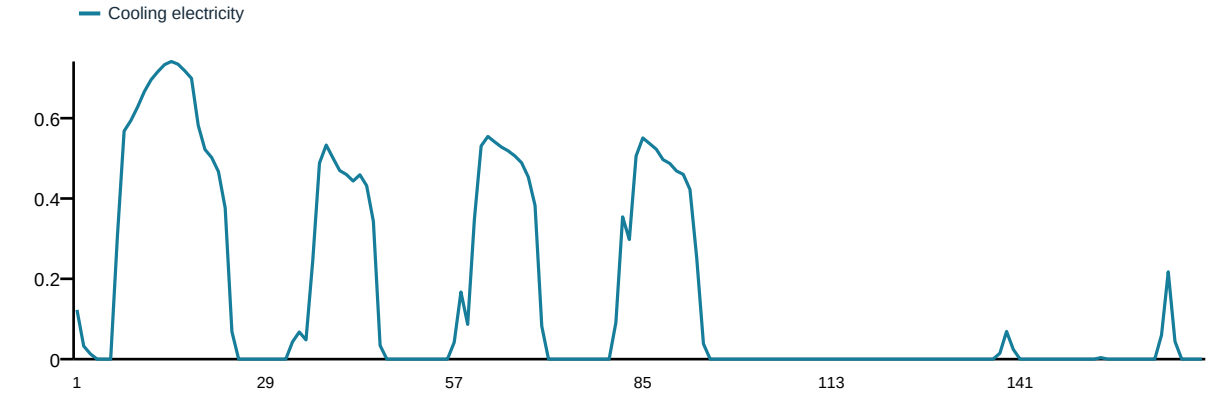
## Cooling electricity, annual daily averages (kW)



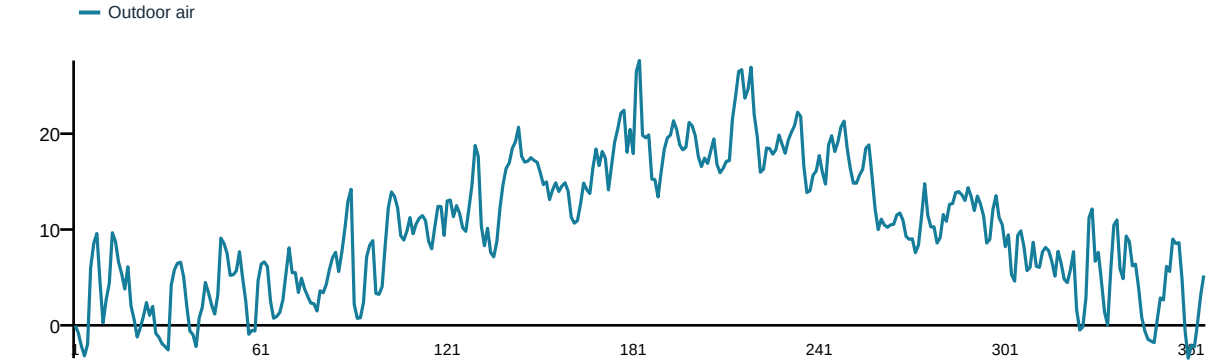

## Cold week, hourly (kW)



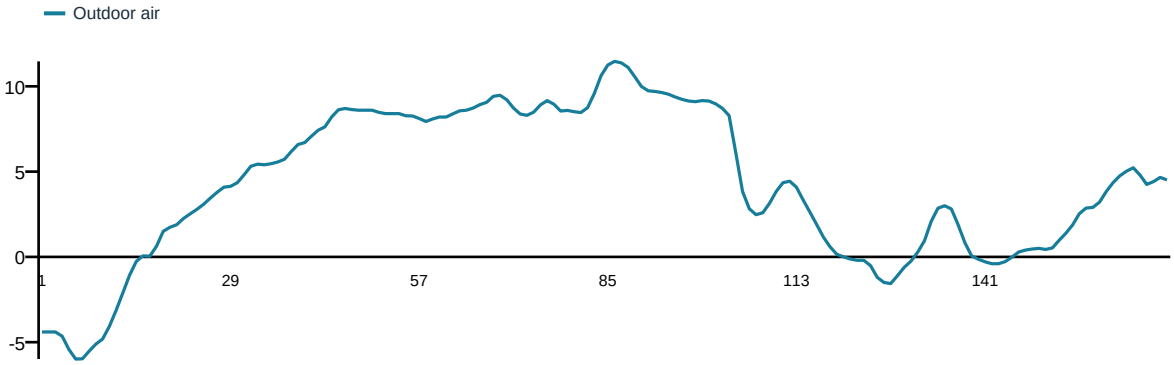

## Hot week, hourly (kW)



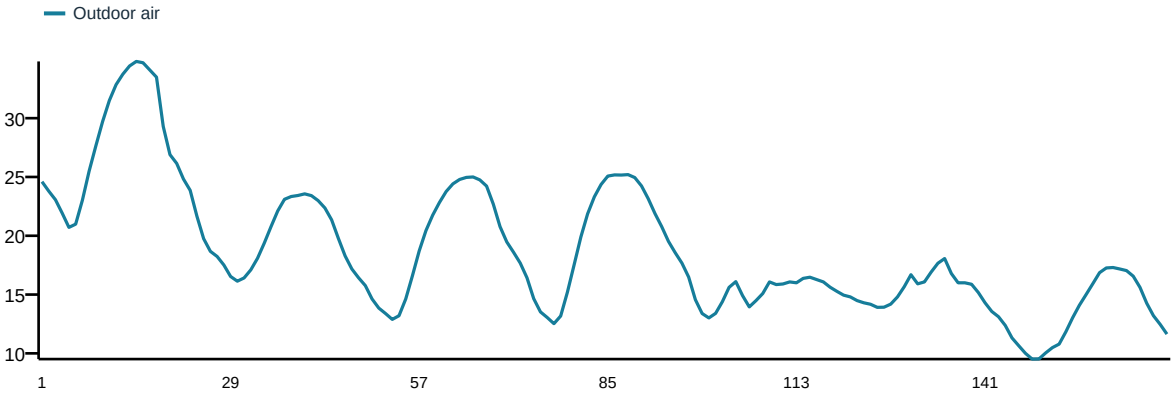

## Outdoor temperature, annual daily averages (°C)



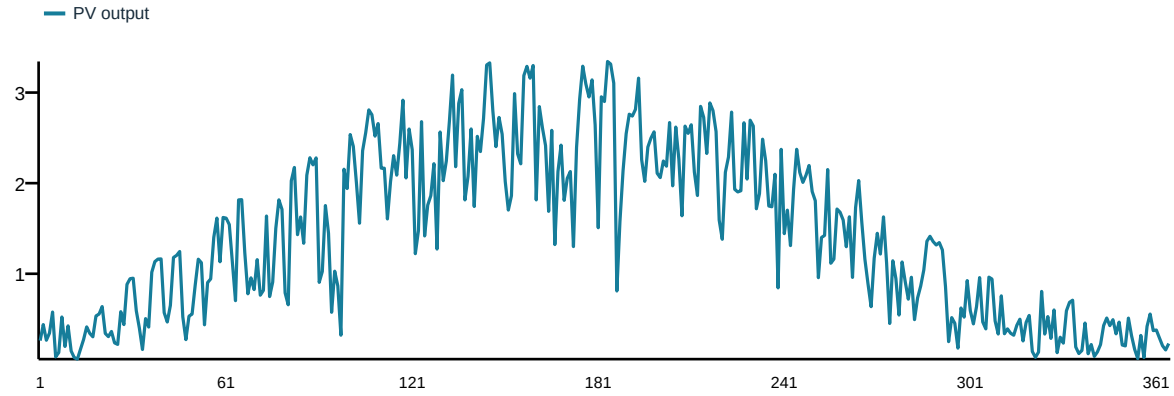
## Cold week, hourly (°C)



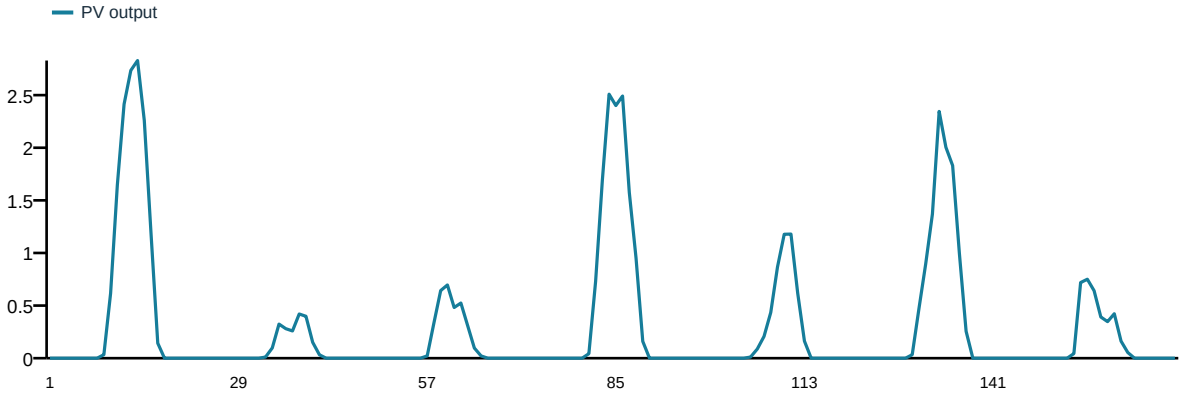

## Hot week, hourly (°C)



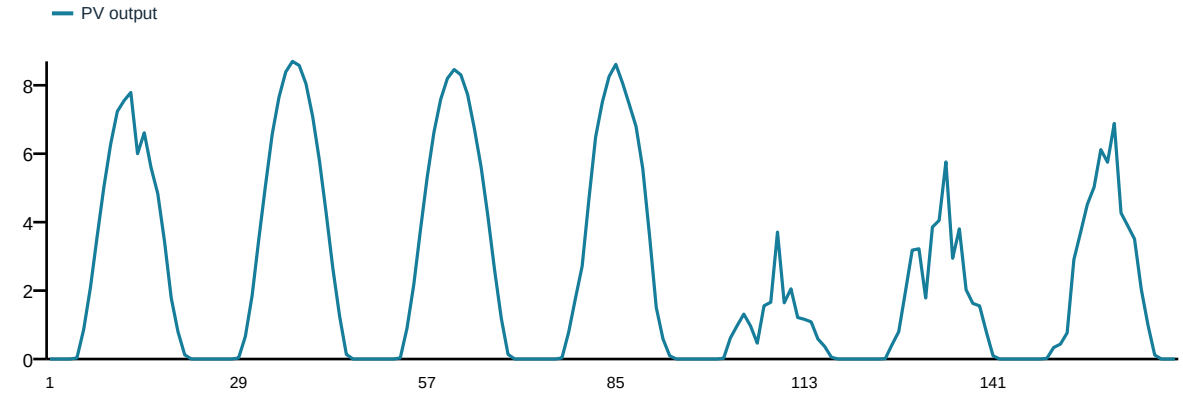

## PV power, annual daily averages (kW)



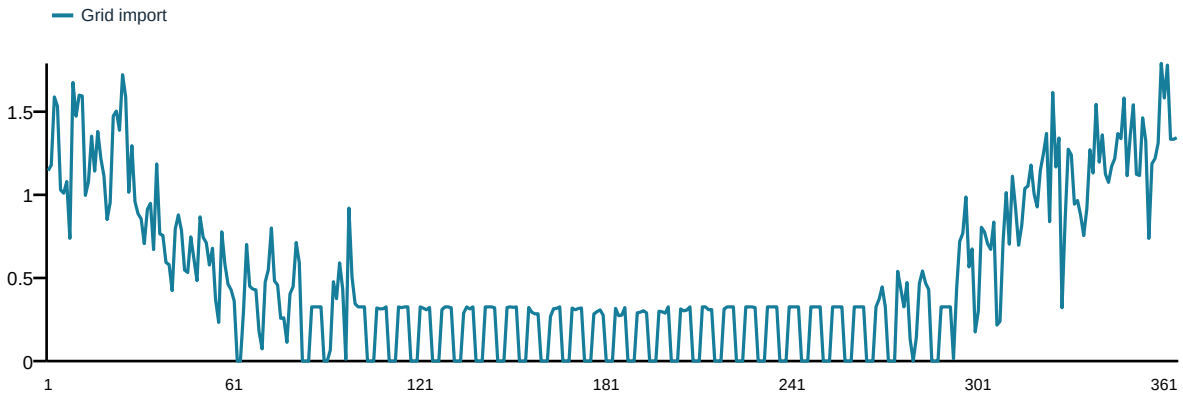

## Cold week, hourly (kW)



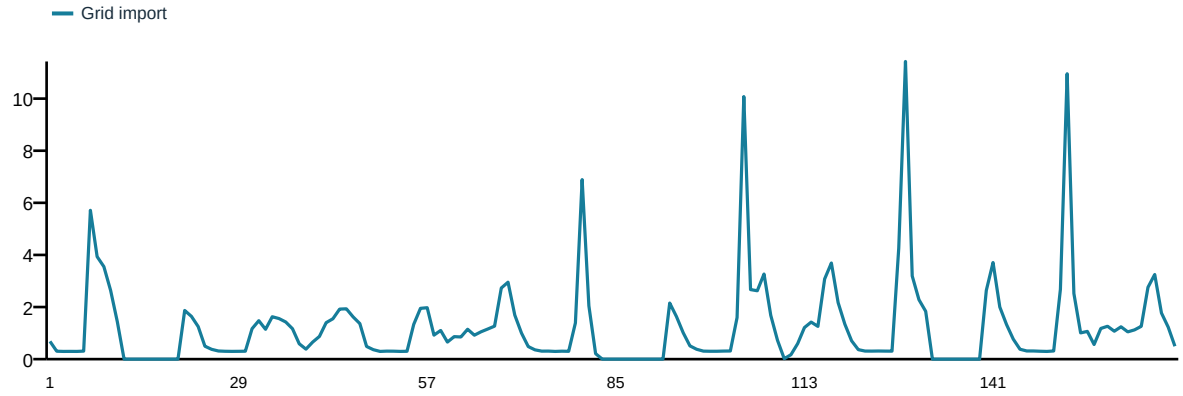
## Hot week, hourly (kW)



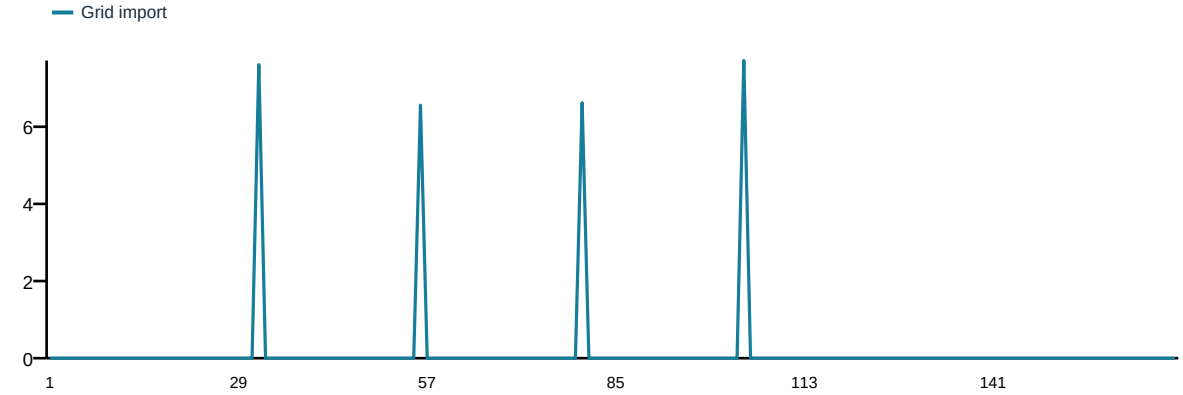

## Grid import, annual daily averages (kW)




## Cold week, hourly (kW)




## Hot week, hourly (kW)



# Configuration and limitations

## Heat pump sizing

Design heat load: 7.7 kW at -12 °C, plus 0.85 kW for hot water.
Size used: air-source heat pump, 10 kW class. It delivers up to 8.5 kW at -12 °C.
Compressor starts a year: 1,956 (estimate).
Standby electricity: 93 kWh a year, included in the heat pump electricity.

## House

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Floor area | 300.0 | m² | modelled, all storeys |
| Heated floor area | 282.0 | m² | modelled, heated zones |
| Storeys | 2 | | configured |
| Construction year | 2025 | | configured |

## Weather

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Weather source | Typical meteorological year | | simulation period |
| Weather year | Unavailable | | simulation period |

## Assumptions

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Lowest scheduled heating target | 19.0 | °C | configured schedule |
| Highest configured cooling target | 24.0 | °C | configured schedule |

## Equipment

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Cooling system | Floor cooling | | configured |
| Heating system | Air-source heat pump | | configured |
| Ventilation | Heat-recovery ventilation | | configured |
| Cooling system configuration | Configured | | configured |
| Equipment configuration | Configured | | configured |
| Heating system configuration | Configured | | configured |
| Equipment configuration | Configured | | configured |

## Comfort

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Basement minimum indoor temperature | 20.5 | °C | annual hourly series |
| Basement maximum indoor temperature | 23.2 | °C | annual hourly series |

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Basement heating excursion threshold | 18.0 | °C | lowest scheduled heating target minus 1°C |
| Bsmt hours at least 1°C below heating target | 0 | h | hourly series; 1°C reference excursion |
| Bsmt longest heating reference excursion | 0 | h | consecutive hourly series |
| Bsmt most common month of heating reference excursion | Unavailable | | simulation-order month |
| Bsmt most common hour of heating reference excursion | Unavailable | h | 0-23 simulation hour |
| Basement cooling excursion threshold | 25.0 | °C | highest scheduled cooling target plus 1°C |
| Bsmt hours at least 1°C above cooling target | 0 | h | hourly series; 1°C reference excursion |
| Bsmt longest cooling reference excursion | 0 | h | consecutive hourly series |
| Bsmt most common month of cooling reference excursion | Unavailable | | simulation-order month |
| Bsmt most common hour of cooling reference excursion | Unavailable | h | 0-23 simulation hour |
| Garage minimum indoor temperature | 6.1 | °C | annual hourly series |
| Garage maximum indoor temperature | 25.0 | °C | annual hourly series |
| Ground floor minimum indoor temperature | 19.8 | °C | annual hourly series |
| Ground floor maximum indoor temperature | 25.0 | °C | annual hourly series |
| Ground floor heating excursion threshold | 18.0 | °C | lowest scheduled heating target minus 1°C |
| GF hours at least 1°C below heating target | 0 | h | hourly series; 1°C reference excursion |
| GF longest heating reference excursion | 0 | h | consecutive hourly series |
| GF most common month of heating reference excursion | Unavailable | | simulation-order month |
| GF most common hour of heating reference excursion | Unavailable | h | 0-23 simulation hour |
| Ground floor cooling excursion threshold | 25.0 | °C | highest scheduled cooling target plus 1°C |
| GF hours at least 1°C above cooling target | 1 | h | hourly series; 1°C reference excursion |
| GF longest cooling reference excursion | 1 | h | consecutive hourly series |
| GF most common month of cooling reference excursion | 7 | | simulation-order month |
| GF most common hour of cooling reference excursion | 18 | h | 0-23 simulation hour |
| First floor minimum indoor temperature | 19.4 | °C | annual hourly series |
| First floor maximum indoor temperature | 25.1 | °C | annual hourly series |
| First floor heating excursion threshold | 18.0 | °C | lowest scheduled heating target minus 1°C |
| F1 hours at least 1°C below heating target | 0 | h | hourly series; 1°C reference excursion |
| F1 longest heating reference excursion | 0 | h | consecutive hourly series |

| Measure | Value | Unit | Scope |
|---|---|---|---|
| F1 most common month of heating reference excursion | Unavailable | | simulation-order month |
| F1 most common hour of heating reference excursion | Unavailable | h | 0-23 simulation hour |
| First floor cooling excursion threshold | 25.0 | °C | highest scheduled cooling target plus 1°C |
| F1 hours at least 1°C above cooling target | 3 | h | hourly series; 1°C reference excursion |
| F1 longest cooling reference excursion | 2 | h | consecutive hourly series |
| F1 most common month of cooling reference excursion | 7 | | simulation-order month |
| F1 most common hour of cooling reference excursion | 18 | h | 0-23 simulation hour |
| Attic minimum indoor temperature | -3.9 | °C | annual hourly series |
| Attic maximum indoor temperature | 32.7 | °C | annual hourly series |
| Annual minimum of modelled mean indoor temperature | 20.0 | °C | hourly series |
| Annual maximum of modelled mean indoor temperature | 24.4 | °C | hourly series |
| Annual mean indoor temperature | 22.1 | °C | annual hourly temperature summary |
| Minimum indoor temperature | 20.0 | °C | annual hourly temperature summary |
| Maximum indoor temperature | 24.4 | °C | annual hourly temperature summary |

## Solar

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Solar panel system | Split-array solar panels | | configured |
| Solar panel system, total peak solar capacity | 13.5 | kWp | configured |
| Solar panels configuration | Configured | | configured |
| PV generation | 12 monthly values | kWh | monthly totals, 12 months |
| Average daily pv generation | 34.2 | kWh/day | annual daily average |
| Highest daily pv generation | 80.2 | kWh/day | daily maximum |
| Solar electricity generated | 12,469.4 | kWh | annual energy input/output |
| Solar electricity used on site | 6,672.0 | kWh | annual energy input/output |
| Solar electricity sent to EV | 477.0 | kWh | annual energy input/output |
| Solar self-consumption share | 53.5 | % | annual energy input/output |

## Battery

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Battery system | Battery | | configured |

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Battery system, storage capacity | 15 | kWh | configured |
| Battery configuration | Configured | | configured |
| Battery electricity charged | 2,953.0 | kWh | annual energy input/output |
| Battery electricity discharged | 2,812.0 | kWh | annual energy input/output |
| Grid electricity sent to battery | 88.0 | kWh | annual energy input/output |
| Battery electricity sent to home | 2,812.0 | kWh | annual energy input/output |
| Solar electricity sent to battery | 2,865.0 | kWh | annual energy input/output |
| Battery electricity exported | 0.0 | kWh | annual energy input/output |

## Ev

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Electric vehicle charging | One-way EV charging | | configured |
| Electric vehicle configuration | Configured | | configured |
| Electricity charged to the EV | 2,000.5 | kWh | annual energy input/output |
| EV driving energy | 1,879.0 | kWh | annual energy input/output |
| Grid electricity sent to EV | 1,523.0 | kWh | annual energy input/output |

## Dhw

| Measure | Value | Unit | Scope |
|---|---|---|---|
| Hot water system | Heat-pump hot water | | configured |
| Hot water system, setpoint | 55.0 | °C | configured |
| Hot water system, tank volume | 200 | L | configured |
| Hot water configuration | Configured | | configured |
| Useful hot water heat | 0.0 | kWh | annual thermal output |
| Hot water electricity | 1,997.3 | kWh | annual energy input/output |
| Hot water heat output | 0.0 | kWh | annual energy input/output |

# Limitations

System seasonal performance ratio: unavailable for this run.

This simulation is an estimate based on the saved configuration and weather inputs. It is not an energy certificate, a guaranteed bill, or an installer design. Review equipment selection and installation with a qualified professional.