

WHAT IF YOUR ROOF PAID PART OF YOUR ELECTRICITY BILL?



RUUKKI® SOLAR ENERGY SOLUTIONS

RUUKKI
LIVING. WORKING. MOVING.



Tap into a free energy source.

Modern homes should be energy-efficient, so that the running costs are minimised and the house retains its value. Living should also be sustainable, with minimal environmental impact. Rising energy prices, the desire to live more sustainably and tightening regulations are all reasons for using renewable energy.

Solar energy

We offer solar energy as a modern and convenient solution for improving energy efficiency in a sustainable manner. Solar radiation is clearly one of the most usable renewable energy sources. Independent energy production with a solar system saves money and protects you from rising energy prices while increasing the resale value of the house.

Heat and electricity

There are two types of solar energy system. Solar heating systems produce hot water, whereas solar power systems convert solar radiation directly into electricity. We supply a wide assortment of solar energy products, from which we can find just the right solution for your needs.

Sustainability

Solar energy is free, pure and renewable. All you need to do is tap into it and enjoy the financial and emotional advantages – reaping the benefits, but doing so in a sustainable manner. Unlike gas, oil or electricity, solar energy is immune to the decisions of external parties; it's your very own energy solution.

Availability

Solar energy is plentiful from March to October. The sun can be your primary energy source in summer, and support your energy needs in the spring and autumn.

For all homes

Solar energy can be put to practical use in every house. Rooftop solar panels can be fitted on all sorts of roofs and connecting to main house heating and power systems is swift and effortless.

Our solutions

Ruukki solar energy solutions comprise solar thermal and power applications. We ensure high performance and value over a long service life. The solutions are crafted from high-quality parts that provide excellent value in terms of usability, efficiency and durability. They are easy to install and user-friendly, while maintenance and use costs are minimised. This brochure tells you more about these solutions.



Solar heating

Solar thermal solutions are used in domestic hot water and heating systems. The operating principle is simple: heat is captured from the sun's rays by rooftop panels and transferred to a water tank. Solar heating substantially improves the efficiency of the water heating system and increases the resale value of the house.

Use

Houses with electric, oil or gas water heating are most urgently in need of energy renovation and cost reduction. Solar heat collectors can also be installed with a heat pump or water stove to create a superbly efficient heating solution based on renewable energies.

Houses with a water-based heating system can use solar energy for producing hot running water and central heating support. The heart of the hybrid heating system is a multi-use hot water accumulator incorporating various heat sources.

Solar heating systems are used for making domestic hot water in houses with direct electrical or air-source heat pump heating. The solar heat collectors are installed in a single compartment domestic hot water tank.

Solutions

We provide solar heating solutions for domestic hot water production and house heating.

Ruukki solar thermal packages are intended primarily for domestic hot water (DHW) heating, and versatile Ruukki hybrid solar thermal packages for DHW and house heating. You may also choose the stylish Ruukki Classic solar thermal roof, in which the solar collectors are integrated into a Ruukki Classic roof.

We also supply customised solar thermal systems for high hot water consumption sites, such as multi-apartment row houses, apartment blocks, and public and commercial buildings. The design will match the specific needs of the building.

Ruukki Classic® solar thermal roof

Stylish solar thermal system with integrated roof collectors.

Ruukki Classic solar is a unique world-class solar thermal solution. The main benefit is an outstanding design in which the collectors blend in completely with the roof. This makes it especially suitable for architecturally demanding buildings. With Ruukki Classic solar you get a stylish roof with energy generating capability.

Ruukki Classic solar is manufactured as an integral part of the Ruukki Classic standing seam roof. Separate structural frames are delivered with the package for rooftop mounting.

Available in three sizes: 4, 6 and 8 m², with an optional domestic hot water or hybrid accumulator.

Note: Ruukki Classic solar is only available with the Ruukki Classic roof model; it does not fit any other roof.

Suitable system size according to number of residents

Number of residents	2-3	4	5	6+
Collector field size (m ²)	4	6	6	8
Accumulator size (l)	300	300	400	400



Ruukki Classic solar thermal roof with domestic hot water accumulator.



Ruukki® solar thermal package

Affordable solution with ideal value and service life.

Ruukki solar thermal packages offer superb value in terms of price, quality and easy assembly. These add-on type collectors fit all kinds of roofs; they can be installed together with a new roof or retrofitted on top of an old one.

Ruukki solar thermal packages are complete easily adapted kits, including all necessary parts for a fully functioning system. Three sizes are available according to the collector field: 4, 6 and 8 m². The package includes an optional 300 or 400 litre domestic hot water accumulator. Ruukki solar thermal packages are mainly used for making hot running water in detached houses.

Suitable system size according to number of residents

Number of residents	2-3	4	5	6+
Collector field size (m ²)	4	6	6	8
Accumulator size (l)	300	300	400	400



Ruukki® hybrid solar thermal package

Efficient solar thermal system for versatile use.

The Ruukki hybrid solar thermal package is an efficient system for making hot running water and for central heating support. Other heating systems, such as heat pumps or boilers, can be connected to the multi-functional hybrid accumulator. In addition to high efficiency flat plate collectors, the ready-to-use package encompasses a full heat transfer system with a multi-functional controller.

Ruukki hybrid solar thermal packages are available in three sizes: 7, 10 and 12 m² with an optional 500, 750 or 1000 litre hybrid accumulator.





Solar power

Electricity can be generated straight from the rooftop with your very own solar power system. Solar panels or PV modules are installed on the roof, and the electricity generated is fed into the power network via an inverter. The greatest benefit is achieved when the power generated is consumed on site, and any excess electricity can be fed into the general power grid and sold to an electricity company.

Use

Electricity is needed in households for lighting, operating all electronic appliances, and for house and water heating. Solar power systems generate electricity during daylight hours, and ideally for immediate use. Even when the lights are out and residents are away, there is always a basic need to operate appliances and cold-keeping units.

Solutions

Ruukki solar power packages are designed for easy installation and use. The systems include all necessary components and operation is fully automated. The commissioned systems generate electricity whenever the sun shines. The system has a clear control logic and the required safety equipment to ensure reliable operations.

Ruukki® solar power package

Convert sunlight into electricity conveniently.

Ruukki solar power packages are ready-to-use grid-connected systems that convert sunlight into electricity. The package includes solar panels, rooftop fasteners, cables and an inverter. The solar panels can be installed on any roof and the system is easy to connect to the power network. Electricity generated is best used in the house, with any excess power fed into the public grid and sold to an electricity company.

Ruukki solar power packages are available in three sizes according to nominal power output: 2, 4 and 6 kilowatt peaks.



Nominal power (kWp)	2,0	4,0	6,0
Number of panels	8	16	24
Panel field	2x4	2x8	3x8
Panel area (m ²)	13	26	39



Project deliveries

Solar energy solution for individual needs.

We also supply customised solar energy systems for buildings with high energy requirements, such as apartment blocks, row houses and public buildings. Our solutions help investors, communities and constructors meet energy efficiency requirements using solar energy. These customised solar energy systems are designed on the basis of a careful assessment, ensuring that the system is ideal for a given application. The design conforms to the specific configuration and energy needs of the building.

At your service

Sales services

The sales representatives of Ruukki and authorised resellers will provide assistance throughout the project. Please call or e-mail to get started.

Design services

We will help you design or select the right solution for each case. The design work begins with a survey, followed by a site assessment using a dedicated easily completed form.

Installation services

Our network of trained fitters provide all roofing, HVAC and electrical work. Call our sales service staff for your local service contacts.

Freight services

Ruukki delivers directly to construction sites throughout Finland. Transport is available also for export deliveries upon separate agreement. Simply advise your sales contact of the address and preferred time of delivery and we will make sure that you get it on time.

1. Contacting sales

2. Selecting or designing the right solution

3. Delivery, installation and use

For more information visit www.ruukkiroofs.com/solar or contact our sales team at solar@ruukki.com



Solar energy solution with a Ruukki roof package.

Our new solar energy systems include an ideal solution for all Ruukki roof packages. You can install a solar energy or electricity system with ease when fitting a new Ruukki steel roof.

**Ruukki provides its customers
with energy-efficient steel
solutions for better living,
working and moving.**



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