

Energy and renovation

Uponor

Make your home more comfortable and reduce your energy costs with efficient solutions from Uponor

Consult Uponor heating expert to learn more about our energy saving systems!





➤ Renovation of buildings and renewal of heating systems are the key aspects of the energy transition.

The increasing awareness of our impact on the environment means that renewable energy sources and modern heating systems with climate-friendly technologies are becoming more important than ever.

Energy savings and reduction of heating costs are in focus.


Improving the energy efficiency of buildings, for example by replacing the existing heating system with a new modern solution, decreases the amount of energy needed and also the heating costs.

Buildings are responsible for around 40% of final energy consumption (e.g. in Germany). Therefore, we might need to start acting from here to protect the climate.

We can only achieve a significant reduction in emissions by making our buildings more energy-efficient and decreasing our consumption of fossil fuels.



- Heat pumps are becoming increasingly popular and radiant heating systems are the ideal cost-effective, energy-efficient solution for heating our homes, because heat pumps work best at low supply temperatures and are most efficient when they provide heat over a large area.

A photograph of a bright, empty room with white walls and a light-colored wooden floor. On the left, there is a window with a white frame and a small arched top. In the background, a glass door or large window looks out onto a green landscape. In the foreground, a black and white patterned mat with white lines is laid out on the floor, representing a radiant heating system.

➤ **Modern radiant heating systems play a major role in reduction of energy consumption.**

Environmentally friendly, efficient heating systems provide radiant heat via floor, wall or ceiling

- ▶ **Underfloor heating systems have lower supply temperatures than conventional radiators.**

As a result, they use less energy and reduce energy costs.

- ▶ **Radiant heating systems are environmentally friendly.**

And the reason is that lower heating temperatures also reduce CO₂ emissions.

- ▶ **Radiant heating systems can be installed in floors, walls or ceilings.**

Therefore, they allow more freedom in room design.

- ▶ **Radiant heating systems supply heat over a large area, making the room warm and comfortable.**


The heat is evenly distributed throughout the room, which feels more pleasant than the uneven heat distribution of conventional heat sources.

- ▶ **Radiant heating can be precisely controlled with smart control systems.**

Our smart home apps automatically keep your home at a temperature that is comfortable for you and also ensure efficient use of energy.



- ▶▶ **Radiant underfloor heating keeps the room pleasantly warm, but the system operates at a low temperature. One additional bonus is that you have more space in your room and more freedom to design it to meet your needs.**



➤ **The lower the supply temperature, the more efficient the whole system is.**

Radiant heating systems make your home more pleasant and comfortable to live in and also reduce your energy consumption and costs.

Uponor low-profile systems are ultra-thin, which makes them the ideal solution for retrofitting underfloor heating in an existing building. The new system can be installed on a room-by-room basis or throughout the house as part of a renovation project. This type of system can also be fitted on existing floor surfaces and therefore the entire screed does not always have to be removed.

Replacing radiators with radiant heating effectively reduces the energy consumption of an existing building if a heat pump or another renewable energy source is installed at the same time.



>> As the radiant heating and cooling systems provide heat effectively over a large area, significantly lower supply temperatures are required than with conventional heating systems.



➤ Uponor combines energy efficiency with comfort.

Added value of the radiant heating and cooling in the floor, wall or ceiling.

Uponor offers perfect solutions for renovation of the energy systems in any type of building, including small apartments, single-family homes, large multi-family and public and commercial buildings.

Uponor heating and cooling systems are designed to use renewable energy.

It helps to significantly reduce the primary energy consumption and CO₂ emissions.

Everything from a single source: Manage your Uponor heating using a modern Uponor control unit with a smart home connection

- Easy operation using an app or a voice assistant
- Self-optimising temperature control for heating or cooling
- Eligible for funding in Germany from the Federal Office for Economic Affairs and Export Control (BAFA)



>> The Uponor control system Uponor Smatrix Pulse for floor, wall and ceiling heating systems combines energy efficiency with comfortable living with the help of smart home apps such as Alexa or Google Home. The room temperature control keeps your home cosy and provides many impressive features.

➤ **Every renovation project has different requirements. We have just the right solutions.**

Your heating system supplier will be happy to help you to choose the right Uponor system for your individual needs.



Uponor offers a variety of system solutions for renovation projects.

»» Underfloor heating and cooling

Since the requirements for the design and functionality of an underfloor heating system can vary greatly, Uponor provides customised system solutions for building renovation projects. To make the renovated building even more comfortable, these systems can also be used for cooling rooms.



»» Lightweight dry systems

Uponor systems are also available for wooden beam ceilings or timber frame buildings. Uponor dry systems are lightweight, quick to install and can be walked on immediately after installation.



»» Walls as heating surfaces

Uponor dry and wet plaster systems for wall heating and cooling create a pleasant indoor climate all year round. They can be installed in the wall structure, on mounting profiles or directly in the plaster.



»» Room heating/cooling through the ceiling

Cooling and heating surfaces in the ceiling are a particularly useful option for buildings that primarily require cooling. Uponor offers a variety of solutions, depending on the property and the cooling and heating requirements of the building.



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