

# Uponor

## Sustainable industrial and logistics buildings build on Uponor

Economical indoor climate concepts based on Uponor low-energy radiant heating and cooling systems

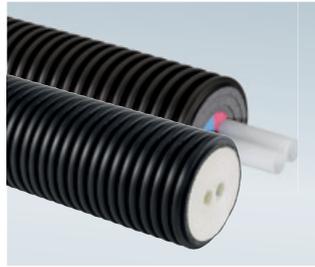


- ✓ Experienced partner, globally at your service
- ✓ Increased market value and stability of your investment
- ✓ Sustainable and futureproof solutions

## 1 Connecting buildings for efficient energy distribution

### Uponor Ecoflex

Complete range of pre-insulated pipes system for heating, cooling and water distribution. Combining excellent heat loss performance with high flexibility and easy installation.



## 2 Efficient and safe supply of domestic hot water and energy

### Uponor riser installations with fire protection solutions

The Uponor multi-layer composite pipe system combines easy installation with certified safety features.



### S-Press PLUS – the press fitting for Uponor composite pipe

With a decreased pressure loss by up to 60%, as result of the Zeta value optimised fitting design, S-Press PLUS is ensuring an optimal flow rate at all points of use.



### Uponor Aqua Port Central

Improved drinking water hygiene due to the absence of the hot water storage tanks

- Reliable hot water supply even when demand is high
- Lowering energy costs thanks to the efficient operation of the heat generator



## 3 Stagnation prevention and smart monitoring

### Uponor Loop Installation

For comfort and the prevention of stagnation, which consequently eliminates bacteria proliferation in the system – independent of single tap usage.



### Uponor Smatrix Aqua PLUS

For the permanent smart monitoring and regulation of the entire drinking water installation as well as automatic flushing for compliance with hygienic requirements and standards.





Since **1972**  
Pioneer in UFH solutions

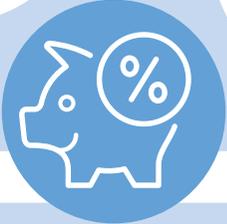


# Sustainable industrial and logistics buildings build on Uponor



Up to **3%**<sup>1)</sup>  
higher leasing fees

**1000s**  
of IUFH\* projects completed



Up to **16%**<sup>2)</sup>  
higher sales value

Since **2018**  
members in the world **green building council**

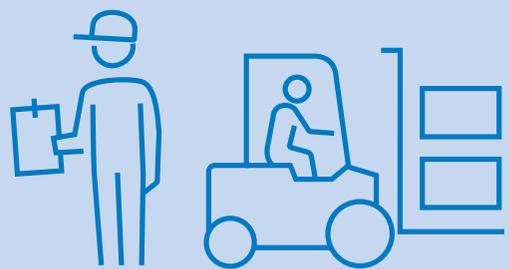


Up to **25%**<sup>3)</sup>  
lower energy costs



Sustainable energy solution with low **CO2** emission

Up to **60 years**<sup>4)</sup>  
of proven service life



1) Based on Eichholtz, P., Kok, N., & Quigley, J. M. (2010). Doing well by doing good? Green office buildings. American Economic Review, 100(5), 2492-2509

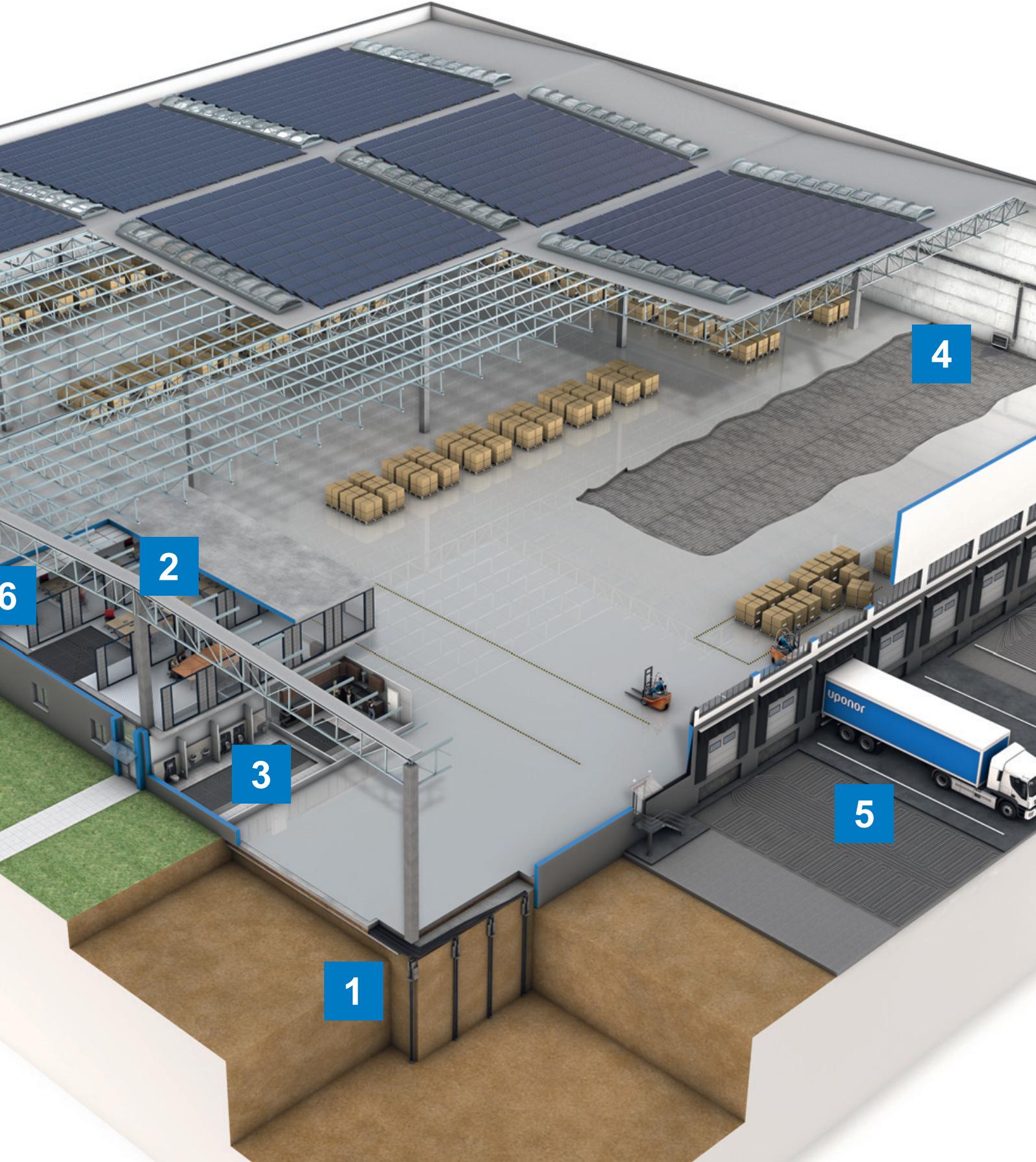
2) Based on Eichholtz, P., Kok, N., & Quigley, J. M. (2010). Doing well by doing good? Green office buildings. American Economic Review, 100(5), 2492-2509

3) Based on research report from Technical University of Munich comparing CO<sub>2</sub> emissions of UFH and a heat pump to dark radiators

4) Based on LCC calculation for Contec On compared to air-based heating/cooling systems

\* Uponor industrial underfloor heating and cooling systems

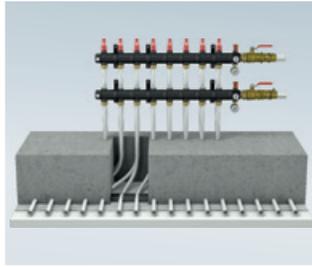
# Uponor solutions for industrial and logistics buildings



## 4 Absolute freedom in planning and using the hall

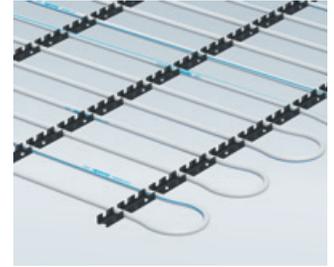
### Uponor Magna industrial manifold

Can be installed simply and practically. The modular kit structure allows respectively suitable manifold solutions for a wide variety of requirements.



### Uponor Magna industrial floor heating and cooling

It is integrated directly in the concrete floor slab. The existing mat reinforcements can be used to fasten the pipes. For conventional and regenerative heat generators.



### Uponor Smatrix PRO

Central controller for multiple temperature zones and up to 192 rooms in commercial buildings. The solution includes an interface to BMS via KNX gateway.



## 5 Increased safety for outdoor areas

### Uponor snow and ice melt

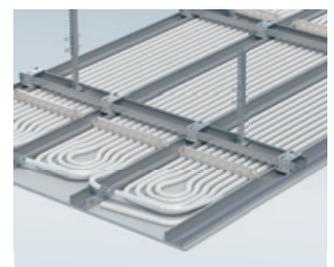
Reliable systems for outdoor areas like driveways, emergency access roads, parking spaces and pedestrian areas. Without time-consuming and expensive snow removal and salting.



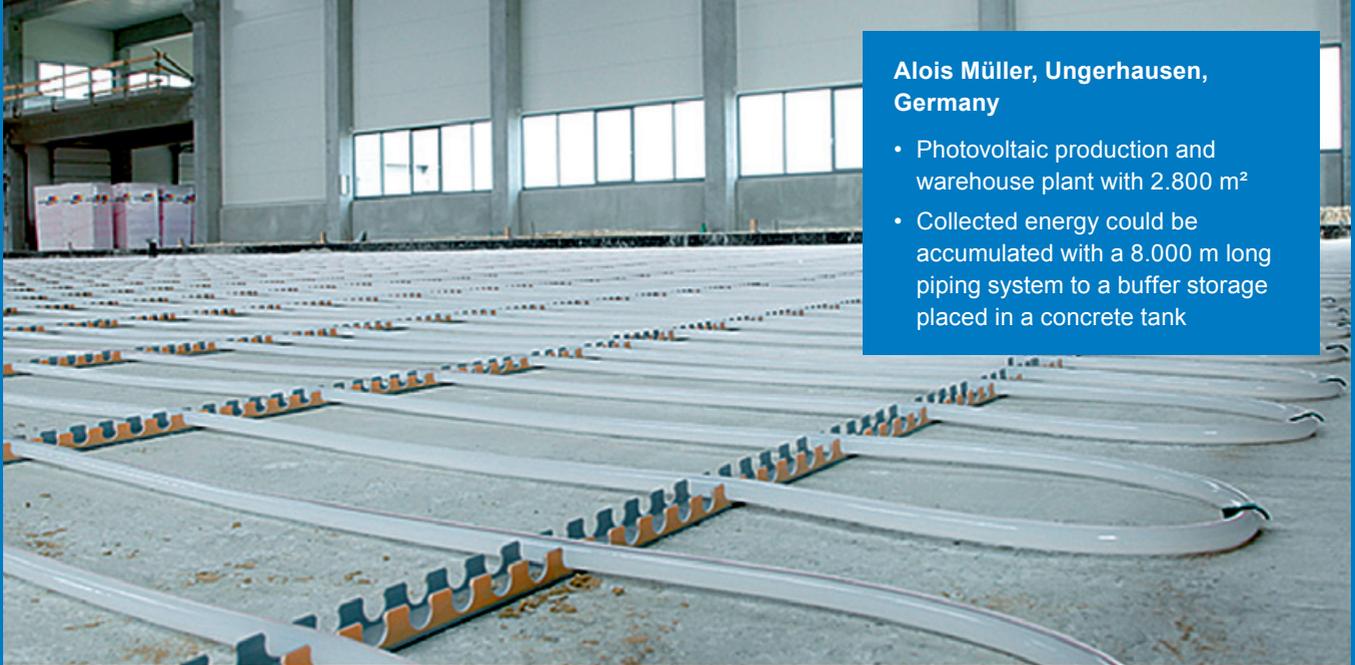
## 6 Radiant ceilings for energy efficient and comfortable room temperatures

### Uponor Thermatop M

Radiant heating and cooling modules for integration in seamless gypsum ceilings for energy efficient thermal comfort and excellent room acoustics.



“ Low-energy heat distribution systems serve as foundation for the use of renewable energies ”



**Alois Müller, Ungerhausen,  
Germany**

- Photovoltaic production and warehouse plant with 2.800 m<sup>2</sup>
- Collected energy could be accumulated with a 8.000 m long piping system to a buffer storage placed in a concrete tank



**Uponor Distribution Center  
Hassfurt, Germany**

- 15.500 m<sup>2</sup> logistical space and 1.300 m<sup>2</sup> office space
- Sustainable and environmental-friendly building construction
- Up to 60% savings per year in operation and maintenance costs



**Production hall H&B Electronic, Deckenfronn,  
Germany**

- Uponor industrial underfloor heating for 3.500 m<sup>2</sup>
- Increased satisfaction and productivity of employees due to comfortable indoor climate

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