

# Naturally Green: People, Technology, Environment



# Our Vision

When you've got something to say, we believe it is important that getting your message across and making an impact should be as easy as possible.

Our aim is to help you to explain it better, to give you the freedom to share your knowledge and collaborate with others - however you want, and whenever you want, when your audience is in the same room or on the other side of the world.

**Because knowledge matters -  
to all of us.**





**WOLFVISION**



**W**olfVision is a leading global developer and manufacturer of wireless presentation, web conferencing, collaboration and Visualizer systems. Universities such as Oxford, Cambridge, Harvard and Yale, together with companies like Apple, Facebook, Audi, and Google, utilise WolfVision presentation technology such as the Visualizer, as well as the Cynap range of collaboration systems and associated communication solutions. Founded in 1966, the Austrian-based company today manufactures around 16,000 devices per year, and employs 130 people.

Social and environmental responsibility have been central to WolfVision's values since its founding. As a family-owned company, WolfVision is deeply committed to safeguarding the well-being of future generations and the world they will inherit. It is an integral part of the company's culture.

In addition to an ISO 9001 certification for quality management, WolfVision is also ISO 14001 certified for environmental management and ISO 50001 certified for energy management. These certifications collectively demonstrate WolfVision's commitment to sustainability by ensuring efficient resource use, minimising environmental impact, and continuously improving energy performance. This integrated approach not only enhances operational efficiency but also strengthens WolfVision's position as a responsible and sustainable partner in the education, corporate, and judicial markets.





**W**olfVision's contribution to the adoption of environmentally friendly measures is evident in the manufacturing and distribution of its products which are designed to have minimal impact on the environment. From its environmentally friendly headquarters in Klaus to the people who work within it - all areas of the company collaborate together to ensure that environmental responsibility remains a central part of the corporate culture.

Environmental responsibility and efficient resource utilisation are core elements of WolfVision's product development. With 95% of component parts being recyclable and an exceptionally long product life cycle, WolfVision systems make a significant contribution to environmental conservation."

WolfVision's worldwide headquarters building in Austria further demonstrates its eco-social responsibility. The design of workspaces and work areas reflects the latest knowledge. The building is equipped with a presence and brightness-dependent lighting system. The heating / air conditioning system operates thanks to geothermal energy, and a photovoltaic system covering over 600m<sup>2</sup> enables the building to operate entirely without the use of fossil fuels, and with minimal energy consumption.

The Cynap and Visualizer systems manufactured by WolfVision are extremely durable. They are also very popular for use in web conferencing applications, thus contributing to a high reduction in CO<sub>2</sub> emissions.

# Naturally Green

## Innovation, Quality, and Sustainability ...

... are the three pillars of our corporate strategy. Moreover, they shape our corporate culture. Our environmental programs are comprehensive, and implemented across seven areas of action. Not just for the present, but also for the future.

Our People



Recycling



Research  
& Development

Purchasing

Manufacturing

Product Use &  
Service

Logistics

NaturallyGreen



**S**ustainability at WolfVision extends far beyond product development and recycling – it encompasses the entire company. This includes our buildings, our people, purchasing, production, distribution, and logistics. It also covers the product itself, from its intended usage to all related processes. At WolfVision, we don't rely on words alone; we try to take meaningful action and fully embrace our responsibility toward both humanity and the environment.



#### **Our People**

In order to reduce automobile usage, we pay for public transport for our employees and provide showers/changing rooms for those traveling to work by bike. An energy-efficient air conditioning system with air humidification, and the many green plants in the work and rest areas ensure an excellent indoor climate.



#### **Research & Development**

Innovation at WolfVision is always ecologically minded. For example, we use automatically controlled circuits resulting in minimal power consumption during operation and stand-by, and we also use electronic components with optimised energy consumption.





### Purchasing

We focus our procurement on the local area, with long delivery intervals and increased batch sizes to minimise any transport-related environmental impact. Currently, we source 75% of our materials from suppliers in the immediate and nearby vicinity, with only 25% of materials coming from overseas.



### Manufacturing

Our facility and all production processes are geared towards minimal energy consumption and high energy efficiency. We do not use fossil fuels at all. Through continuous energy monitoring, we evaluate our energy balance to identify opportunities for further optimisation.



### Logistics

We analyze our supply chains to optimise them, and have been reducing transport volume and packaging materials for many years. We utilise reusable packaging, collect packaging boxes upon delivery, and reuse them.



### Product Use & Service

The exceptional durability of our products and the provision of regular firmware updates guarantee a long product lifecycle. Additionally, our systems are integral components of web conferencing and online working and learning, contributing to a reduction of CO2 emissions.



### Recycling

Our products do not contain harmful materials such as lead, mercury, cadmium, hexavalent chromium, PBB, or PBDE. We fulfil our manufacturer responsibility for environmentally friendly disposal of our products, and we recycle all materials such as plastic, glass, aluminum, wood, paper, and chemicals.

## What specific contribution does WolfVision make in relation to sustainable business practices?

**A**n outstanding example of sustainable business practice is WolfVision's headquarters building, which was designed to enable the company to realise its vision of a sustainable enterprise. Since completion in July 2008, the company has been operating an impressive range of sustainable business initiatives. This continues and will be enhanced further with the current construction of the extension to the company headquarters building.

### **Building Overview**

The exterior of the building is characterised by an intelligent system

of blinds with movable louvres, which allows natural light into the building while also providing sun protection. The movable louvres adjust automatically depending on the time of day, the position of the sun, and the outside temperature (for example the blinds close when the temperature is  $<0^{\circ}\text{C}$  to retain building heat).

The perforated sheet metal facade on the upper part of the building's exterior is designed to reduce the amount of external heat entering. 70% of this radiant energy is blocked, significantly reducing the energy required for air conditioning in the summertime. This heat

shield is intelligently designed to not obstruct the view from the windows when employees are seated and to minimise the need for artificial lighting. The exterior glass is highly insulated and triple-glazed. The entire building was designed with sustainability and environmental protection in mind, and the daily operation of the company supports this ethos. To minimise land usage - a precious resource, WolfVision built an underground car park. As a result of this, the company benefits from a large green area adjacent to the building. In fact, 66% of the WolfVision premises is a green space.





WolfVision invests approximately 15% of its annual revenue into research and development. Sustainability is a cornerstone of the development process.

### Energy Saving

Energy consumption for the entire building is controlled by a sophisticated central control system. This EIB (European Installation Bus) system was developed to reduce energy consumption for heating, cooling, or lighting purposes. The system is powered by a series of motion and heat sensors located in each room and constantly monitored to achieve optimal performance.

### Lighting

Artificial room lighting is only activated when there is insufficient ambient light available. This ensures consistent lighting throughout the day. Motion sensors trigger lighting when a person enters the room, but only if the ambient light

for that room is insufficient. If a room remains empty, the lighting automatically turns off after a few minutes. Overall, the controlled lighting system reduces electricity consumption compared to a conventional lighting system by 77%.

### Heating System

The building's heating system utilizes thermal energy from the ground and is entirely independent of fossil fuels. Below the ground are 130 active borehole heat exchangers that ensure a constant room temperature regardless of the weather. In Central Europe, the soil temperature at a depth of 10 to 20 meters averages 11 to 12 °C. In the soil layers above, the temperature varies depending on prevailing weather conditions. Each square

meter of land is irradiated with approximately 1100 kW of solar energy per year. In the lower areas of the soil, geothermal influences predominate, causing the temperature of the soil mass to increase by approximately 1 °C per 33 meters of depth. The basic idea is to extract heat energy from the ground through the foundations and make it available to suitable systems that can utilize this energy within the building. This principle can also be used for cooling by releasing excess heat into the ground. Provided that soil conditions are suitable, heating and cooling energy can be stored and reused seasonally. The only electrical energy required for this process is for the heat pump. Therefore, the entire heating & cooling system is very efficient.

For every kW of energy invested in the system, 5 kW of heating / cooling energy is generated, ensuring not only low energy costs but also minimising the building's CO2 footprint.

### Electricity Generation

In 2016, WolfVision took another step towards sustainability. Approximately 600m<sup>2</sup> of roof space was equipped with 360 photovoltaic panels with a total area of approximately 652.69m<sup>2</sup>. 180 panels each are oriented towards the east and west to make the most efficient use of both morning and afternoon sun.

At peak performance, the system delivers 93.6 kWp. Between the end of 2016 and August 2024, a total of 711 MWh of energy was generated by the 360 photovoltaic panels. With the energy produced, over 22 four-person households (average consumption 4,000 kWh/

year) could be supplied during the same period.

### Energy Management Systems

Energy-efficient systems are only of real value if ongoing management systems are established to measure and optimise systems. WolfVision places great importance on continuously measuring the performance of its energy management systems and is constantly striving to find ways to optimise these processes. For example, unwanted heat from the IT server room is now used to provide heat to the storage area!

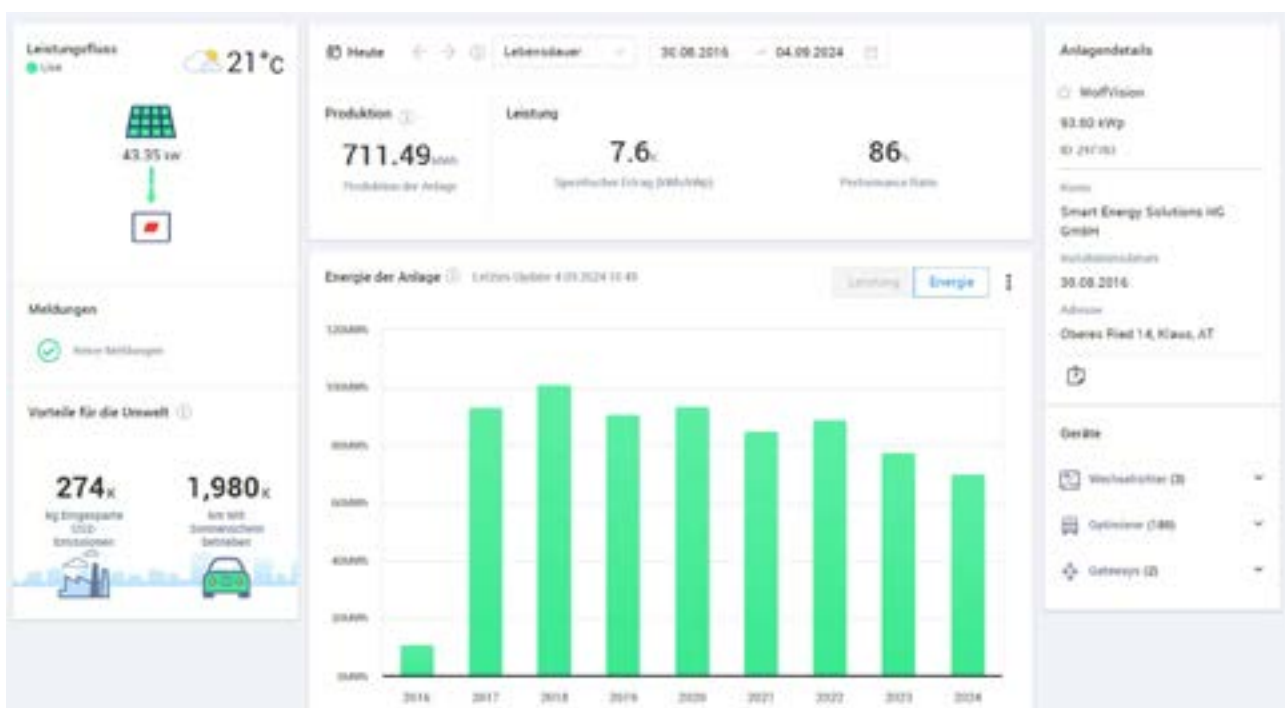
The control of lighting, heating, cooling, and shading systems is continuously monitored, and the results obtained are recorded. A series of automatic alerts are also in place to inform system operators when manual intervention is required.

### Ventilation Systems

WolfVision monitors and records air quality in its building. Fresh air is brought into the building through controlled ventilation, filtered of pollen, and heated / cooled using a heat exchange system so that the warm or cool exhaust air can be indirectly reused, making it highly energy-efficient. The air is then humidified to 45% humidity before being distributed to the office areas.

### Purchasing Policy

Suppliers are sourced as close as possible to one location. Currently, 75% of production materials are sourced from local or nearby suppliers, with only the remaining 25% coming from further afield. Where possible, longer delivery intervals of 3 to 6 months are used. These larger shipments reduce the number of deliveries needed and therefore help to reduce the environmental impact.



Dashboard showing generated energy from the company's own photovoltaic system from the end of 2016 to August 2024 (in MWh).



The 360 photovoltaic panels with 93.6 kWp could provide electricity for more than 22 four-person households per year.

### Packaging

The vast majority of WolfVision packaging is reusable and recyclable. Cables and accessories are no longer packaged in plastic, and styrofoam inserts are eliminated from the process with each new product development. As many components as possible are delivered in reusable packaging. These are stored in the warehouse and are then returned to the supplier for reuse.

### Employee Facilities

WolfVision supports the well-being and health of all employees. For example, the costs of public transportation to and from work are reimbursed by the company, and facilities such as showers and changing rooms are provided to encourage employees to commute to work by bicycle or to exercise during breaks.

### Product Design & Usage

When designing and manufacturing WolfVision systems, we prioritise environmentally friendly features and functionality. Cynap systems, for example, offer a 3-tier power-saving mode (screensaver, screen off, and standby settings) with customisable time settings. Additionally, three customisable states for the standby setting (power saving, standby, or shutdown) can be selected as required to further reduce power consumption.

WolfVision remote management software also allows schedules to be configured that switch on/off all WolfVision devices plus connected projectors, screens, etc., at a predetermined time in multiple locations. This is a very popular feature, and is useful for ensuring that devices are not left running overnight. The introduction of deep standby modes and LED lighting, together

with advanced firmware optimisation, has reduced power consumption for Desktop and Ceiling Visualizer units by up to 70% compared to previous models. High-performance, energy-efficient LED lighting, first introduced to the Visualizer product range in 2009, is now a standard feature across all models, providing consistent, high-quality illumination while minimising power usage.

Long product lifecycles not only maximise ROI, but also reduce environmental impact by minimising the need for frequent replacements, lowering resource consumption, and decreasing electronic waste, contributing to a more sustainable future. Regular firmware updates are designed to extend the useful life of WolfVision devices, and it is not uncommon to see 15 year old models in daily use in many of the world's leading universities!



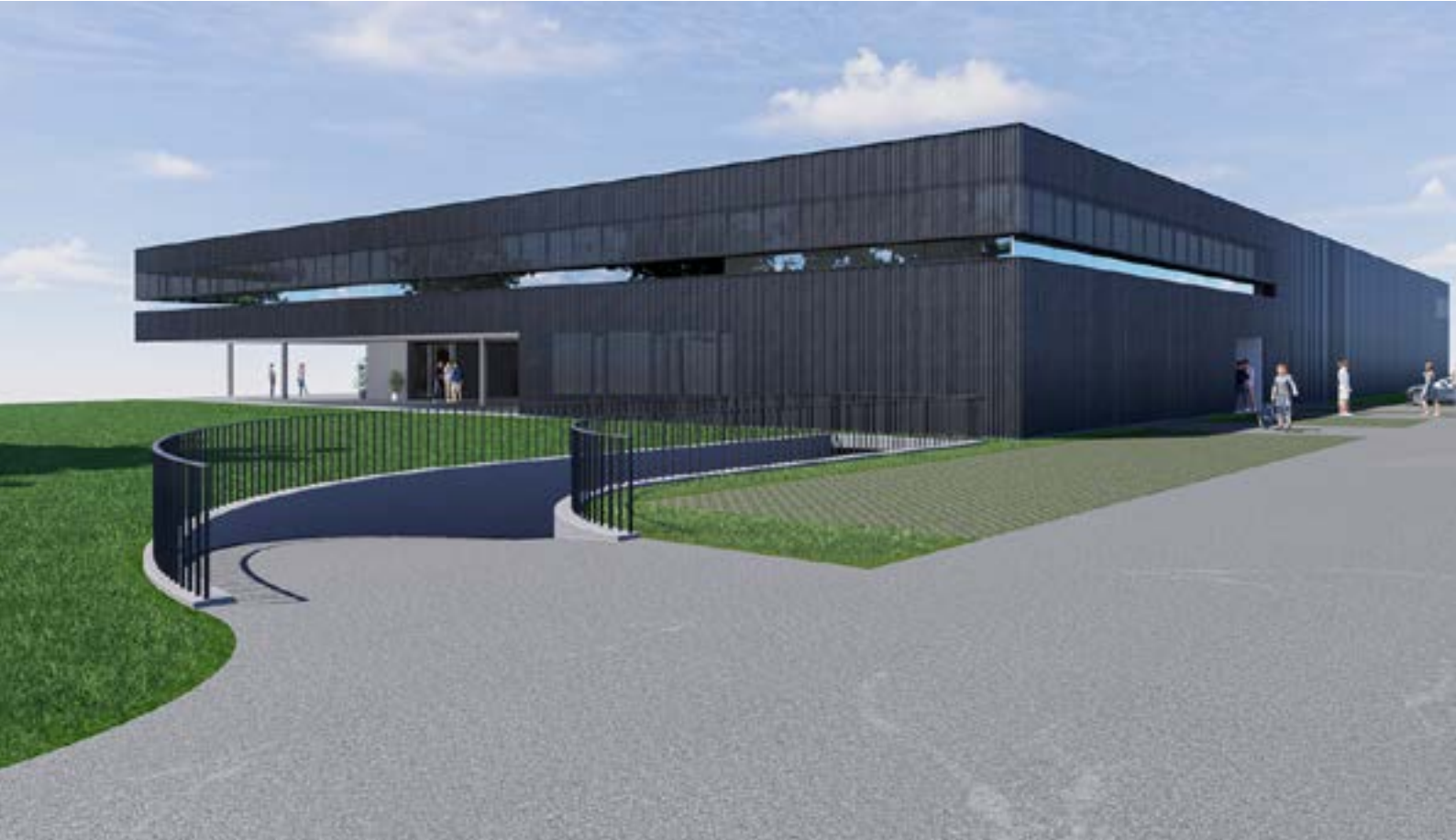
## Giving honey bees a home Helping Planet Earth

We've strengthened our commitment to the environment and invited 60,000 amazing honey bees to stay with us at our worldwide headquarters in Klaus, Austria!

Bees are important and they play an essential role in pollinating trees and flowers, helping to maintain the healthy ecosystems necessary for production of our food. More than 75% of food

crops are at least partly dependent on bees. Unfortunately worldwide bee numbers are declining mainly due to climate change and loss of habitat.

At WolfVision we're proud to be 'bee friendly', and provide a home for them. We like to get involved, playing our part in helping to promote pollination, and helping to support the maintenance of nature's balance.



Artist's impression of the extended WolfVision worldwide headquarters building in Klaus, Austria, due for completion in mid 2025.

## Extending WolfVision worldwide headquarters, with a focus on sustainability

WolfVision is always seeking new ways to enhance its sustainable business practices. As we are currently undertaking building work to expand our worldwide headquarters by 50%, we are taking this opportunity to further elevate our already exemplary commitment to sustainability.

The new building will include additional heating capability utilising thermal energy from the ground, as well as space for the installation of more photovoltaic panels on the roof. Our existing photovoltaic system, which currently generates 93.6 kWp, will be expanded by approximately 146 kWp. By mid 2025, we

will have covered the entire available roof area with photovoltaic panels. A total of 352 new panels will be installed – 136 on the existing building and 216 on the extension.

Since the end of 2016, our existing photovoltaic panels have produced 711 MWh of electricity, which is enough to power an electric vehicle for 1,980,000 kilometers, resulting in a reduction of around 274,000kg of CO<sub>2</sub> emissions. To minimize soil sealing, which occurs when impermeable materials like asphalt and concrete prevent water absorption, we are covering part of the roof of our building ex-

tension with greenery and are using grass pavers instead of asphalt for outdoor parking spaces. We are expanding our existing underground car park to maximise the amount of green space remaining around the building. Additionally, a retention and infiltration basin is being installed to manage rainwater and prevent sewer overflow, further supporting our sustainability efforts.

We see the new building extension as a valuable opportunity to redouble our efforts in protecting the environment and to advance our sustainability initiatives.

# Driving Knowledge Creation



Your WolfVision Partner:

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