



Become  
independent and  
self-sufficient

LUBI Wall Solar Air System

# Fossil-free heat with solar energy

Use the energy potential of your facade all year round and save your budget.  
Independent - climate neutral - CO2 neutral - safe

[www.gogas.com](http://www.gogas.com)



# Achieving your ESG goals with LUBI Wall

Environmental, nature and climate protection are key issues and have obviously been a priority for us for a long time. Not only customers, but also institutional investors want to know exactly whether and how the important ESG criteria are being achieved.

## ESG - what does that actually mean?

The term ESG comes from the English language and stands for Environment, Social and Governance. For each of these areas, verifiable criteria are defined that are important pillars when deciding on a green investment.

## Investors pay attention to ESG criteria

Companies whose B2B real estate, investments, products and services meet ESG criteria are increasingly preferred in investment decisions. If you want to be securely positioned for the future, you cannot avoid meeting certain ESG standards.

## Increasing returns through sustainable concepts

Today, investing in sustainable companies is no longer a short-term trend, but is demanded by politics, society and investors. Demand for investments that meet the standards of ESG criteria is steadily increasing, because they guarantee rising share prices and dividends.

## Who relies on GoGaS, builds on the future

By opting for GoGaS technologies, you are setting your company up for the future in a stable manner and making it particularly attractive for investors. We make sure that you are on the safe side both economically and ecologically – the future of our earth concerns us all!



Our claim: Maximum sustainability, highest energy efficiency, fossil-free energy supply and comprehensive health protection. Our motivation: The best solutions for our customers.

**Graduate engineer Heiko Schneider**  
CEO and Managing Partner GoGaS



## LUBI Wall for your ESG goals

Visible sign for more sustainability – with the LUBI Wall you reach your ESG goals faster and keep them permanently.



## LUBI Wall Solar Air System

# Fossil-free energy through the power of air and sun

The operating principle of the LUBI Wall is very simple: solar energy is converted into heat via the air - without any intermediate storage tank! The innovative technology is not only self-sufficient, but also CO<sub>2</sub>-neutral and completely fossil-free.

### An active principle for all seasons

The sun's rays penetrate the highly permeable polycarbonate of the LUBI Wall panels and reach the building wall - this can be the house facade directly or a specially attached cladding that acts as a "solar absorber". At this point, the solar radiation is converted into heat and forms a layer of air behind the panels that is up to 45 Kelvin above the ambient temperature.

The trick: Highly efficient fans draw fresh air evenly into the system through 902 small perforations in each individual panel. The fresh air mixes with the warm air layer, is thus heated and ensures a uniformly high efficiency.

The warm fresh air can be used flexibly - directly for heating and ventilation, as process heat or as part of the drying technology.



Summer operation:  
night cooling



Winter mode:  
heating

### State support

The GoGaS LUBI Wall system is eligible for funding. We will be happy to advise you extensively about individual funding opportunities for your project.





# Use the energy potential of your facade

Lifetime  
> 25 years

Special challenges require special solutions - completely regenerative and fossil-free energy generation for buildings is becoming increasingly important. The effective LUBI Wall collectors with GoGaS systems are the decisive step towards the future!

## The indoor climate matters

A healthy, comfortable indoor climate is essential. Especially in well-insulated and sealed halls, the necessary ventilation becomes an important factor. LUBI Wall ensures sufficient fresh air supply – people, machines and products stored in the rooms benefit from this.

## Fossil-free and CO2-neutral

In winter mode, the collectors of the LUBI Wall heat the fresh outside air with solar energy up to 45 K above ambient - completely fossil-free and CO2-neutral. In summer mode, LUBI Wall exchanges the heated building air with fresh outside air during the evening and night hours and cools the building down at the same time.

## A system with potential for savings and promotion

With the LUBI Wall, the equivalent fossil energy consumption is reduced to practically ZERO, while CO2 emissions are reduced at the same time. If one adds to this saving of energy consumption and CO2 reduction the saving of the current CO2 tax, the immense potential of the LUBI Wall becomes apparent: governmental subsidies are possible and the system is practically self-financing.

## Leading companies use the LUBI Wall

Baytree, DHL, MLP, Würth, and many others already rely on the LUBI Wall solar air system.

## Distinctions and standards



**CO2-neutral  
energy generation**



**Fossil-free  
Energy generation**



**State sponsored**  
For sustainable investments



**GEG compliant**  
Sustainability and efficiency



**CER.QMS**  
Certified overall system  
DIN EN ISO 9001



**CER.QMS**  
Certified complete system  
SCC certificate



With the LUBI Wall technology, GoGaS offers the ideal solution for an immediate switch to fossil-free energy generation.





# Advantages that pay off

We look at each customer and each new project individually. Site- or building-specific requirements are taken into account, as is the aesthetic integration into the architecture. In combination with our other system modules, you always get the best climate for your buildings.



CO2-neutral energy generation: LUBI Wall operates self-sufficiently and makes independent of global supply chains.



LUBI Wall can be used all year round: In winter for heating, in summer for cooling - always the best climate!



Economical and environmentally friendly: LUBI Wall generates fossil-free energy and makes you less dependent on energy costs and supply chains.



Whether for new or existing buildings, LUBI Wall can be installed on almost any exterior façade. Roof surfaces are not required.



LUBI Wall can be used flexibly - for heating and ventilation, for process heat or drying technology.



Weather-resistant materials: LUBI Wall collectors are durable, maintenance-free and insensitive to rain, snow and wind.



Air-based system: LUBI Wall can neither ice up nor overheat. No problems due to stagnation.



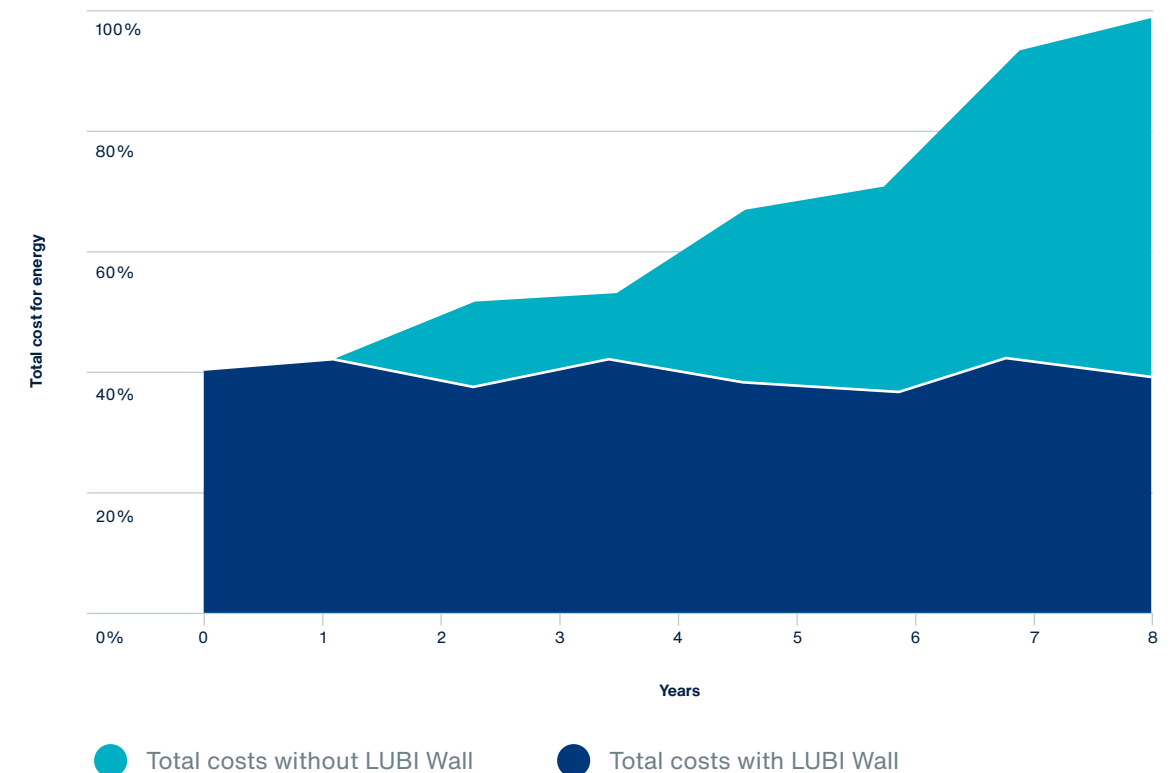
LUBI Wall can be combined with other products for better indoor climate, e.g. activated carbon filters and HVLS fans.



Attractive for builders and investors: LUBI Wall saves money, is eligible for subsidies and meets ESG criteria.

## Demonstrated potential for savings

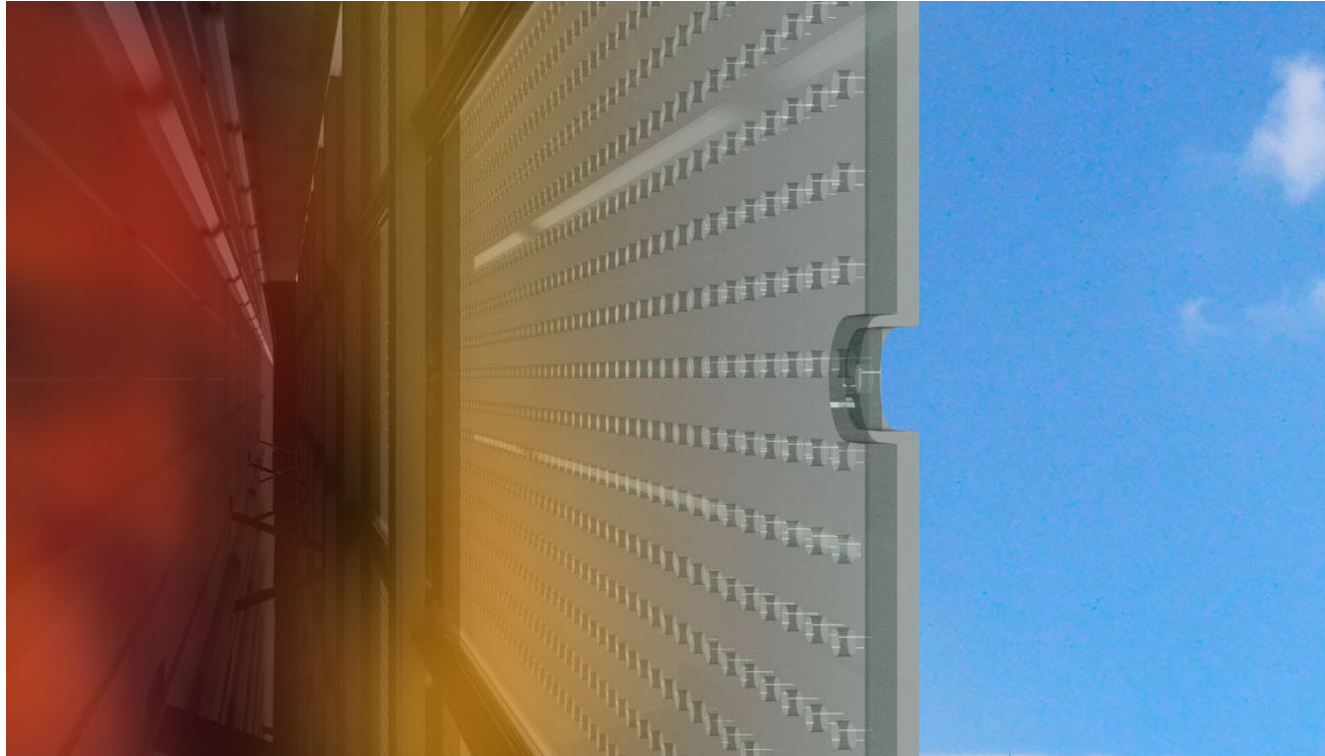
With rising fossil energy costs and increasing CO2 taxes, LUBI Wall offers ever greater savings effects.



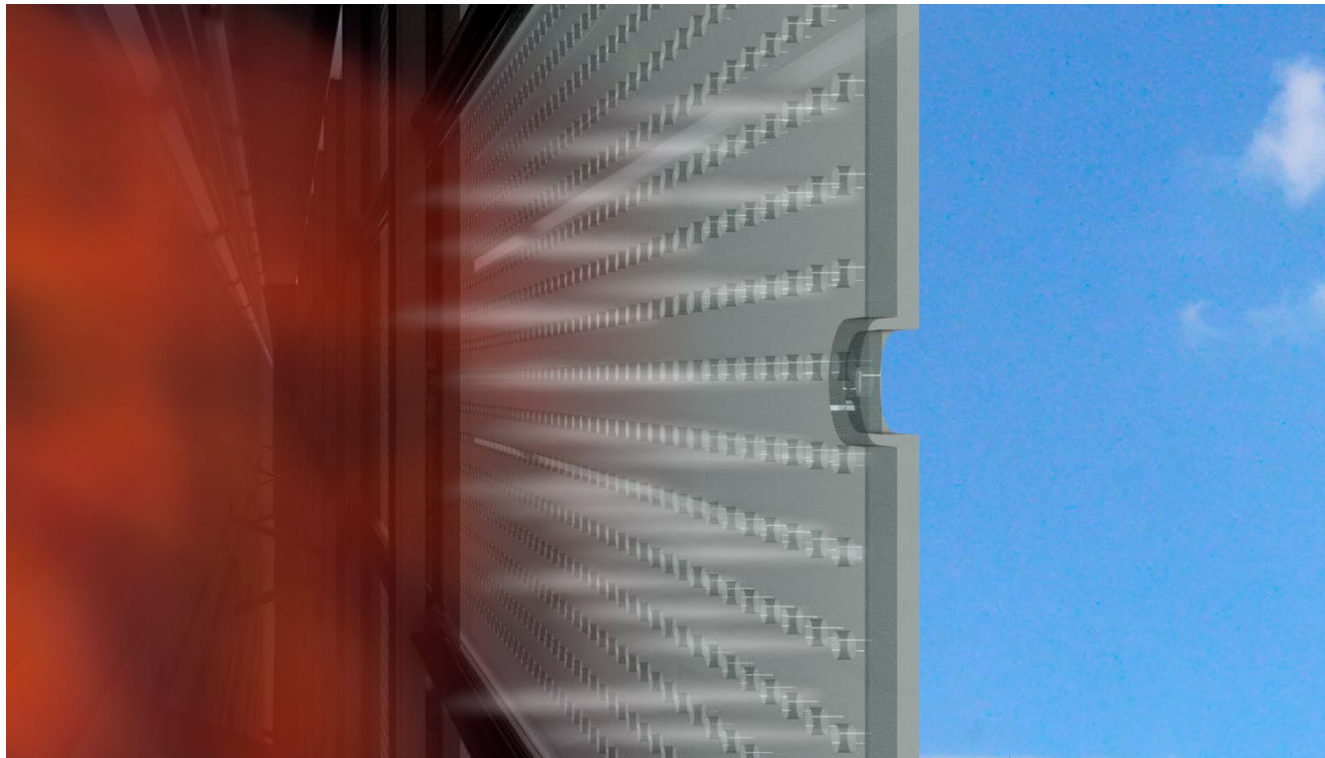
Mode of action and yield tested and confirmed by the Fraunhofer Institute.



## The LUBI principle of action



Solar radiation penetrates the panels and heats the air.



Fans draw fresh air into the building, where it mixes with the warm air. The surface is cooled, heat loss is minimized.

## Technical data



- 1) Spacer
- 2) Front cover
- 3) LUBI Wall panels 901 x 320 mm
- 4) Absorber surface
- 5) Closed frame

### System specifications

|                              |      |
|------------------------------|------|
| max. efficiency <sup>1</sup> | 80 % |
|------------------------------|------|

|            |                      |
|------------|----------------------|
| Max. power | 800 W/m <sup>2</sup> |
|------------|----------------------|

|                                    |                          |
|------------------------------------|--------------------------|
| Air volume flow per m <sup>2</sup> | 80-120 m <sup>3</sup> /h |
|------------------------------------|--------------------------|

|                           |      |
|---------------------------|------|
| Max. temperature increase | 45 K |
|---------------------------|------|

The load of the collector on the existing wall is 8.8 to 13.7 kg/m<sup>2</sup>.

1) CSA tested – LUBI Black



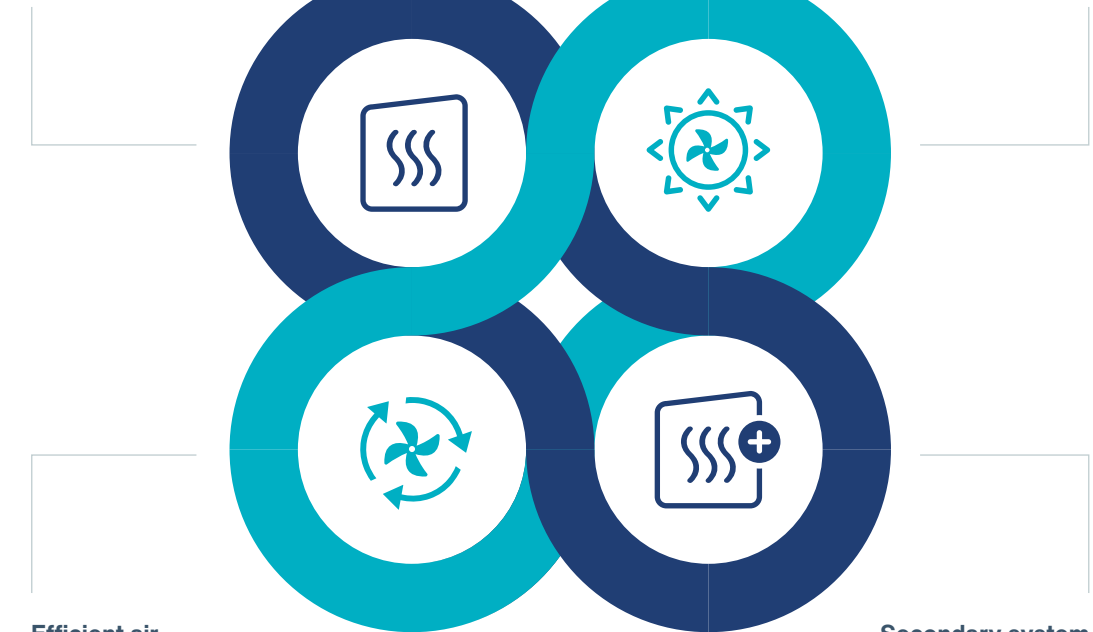
# Building climate with multivalent systems



## Example of multivalent systems

**Primary system  
heat pump**  
Gas / Elektrik

**Solar share  
solar air system**  
LUBI Wall



**Efficient air  
ventilation system**  
WRG & HVLS

**Secondary system  
auxiliary heating**  
Gas / Elektrik

## Customized building solutions

Numerous legal requirements and social demands oblige builders, planners and investors alike to save energy and reduce pollutant emissions. Sustainable, climate-neutral and energy-efficient buildings are best achieved through the interaction of different climate systems.

GoGaS offers its customers individually adapted complete solutions: State-of-the-art heat pumps in combination with highly effective heating and ventilation systems guarantee optimum overall energy efficiency, which saves money from day one and sets a visible sign for more sustainability – this is how sustainable technology of the future works.



## HVLS fan VolumeAir The perfect complement to your LUBI Wall

It rotates maximum slowly, is very quiet and moves large masses of air: The VolumeAir is an extra efficient ceiling fan. The energy balance of the entire system is significantly improved and the savings potential increased.





# Climate Protection for Future Growth

## Innovating since 1946

Businesses and organizations need to reduce their environmental footprint. We help businesses tackle that challenge while staying competitive. Climate protection is the key to future growth. As a technology company focused on sustainability, we're committed to meeting the challenges of the future.

### Our products & services

GoGaS specializes in heating, cooling, ventilation and UV-C disinfection. We offer innovative solutions that address environmental, decarbonization, health and safety challenges and safety.

**We'll always be glad  
to help you!**

### Building climate

Air Distribution Systems  
Heat Pumps  
Heat Recovery  
High Intensity Heaters  
HVLS Fans  
Hydrogen Burners  
LED Lighting Technology  
Patio Heaters  
Regulation Technology  
Solar Air Systems  
Tube Heaters  
Ventilation Systems  
Warm Air Heaters

### Process Solutions

De-icing systems  
Drying Technologies  
Process Heat  
Recycling Technologies

### Health & Safety

Protective Equipment  
UV-C Ambient Air Disinfection  
UV-C Building Disinfection  
UV-C Surface Disinfection



Certified:



Partner:



## GoGaS Goch GmbH & Co. KG

Zum Ihnedieck 18  
44265 Dortmund  
Germany

T +49 231 46505-0  
F +49 231 46505-88

info@gogas.com  
www.gogas.com