

Expert Talk | Tuesday, October 8, 2024

Retrofit Air Handling Units



Torsten Friedrich

Retrofit
Business Manager



10.00 am | approx. 10 minutes

Efficiency meets sustainability: Retrofitblue's impact on building modernization.

Retrofitblue promotes ESG goals through efficient HVAC & refrigeration modernization that combines sustainability and cost-effectiveness in existing buildings.



Why sustainability in Buildings is important

Tenants and buyers are looking for buildings that are environmentally friendly.

Property managers who can offer sustainable buildings will have a competitive advantage.



Sustainability in Buildings

Benefits for the building owner and property managers



**Increase
the asset value**
of the managed property



**Reduce the
environmental impact**
of the managed property



**Increase the
energy efficiency**
of the managed property



**Improve the
Energy Label**
of the managed property



**Improve the indoor
air quality**
of the managed property



**Comply with
governmental legislation**

Retrofit contributes to ESG

Environment



- The reduced power consumption of the modernized equipment conserves natural resources and therefore lowers CO₂ emissions

Social



- **Employee Engagement:** Raise awareness about sustainability and inspire environmentally friendly behavior.
- **Employee Health & Productivity:** A better climate at the workplace leads to less sick leave and improves focus and job satisfaction

Governance



- **Responsible Action:** The modernization demonstrates your commitment to sustainable practices and responsible corporate governance.
- **Transparency:** Communicating this project in your sustainability report underscores your transparency and openness with stakeholders.

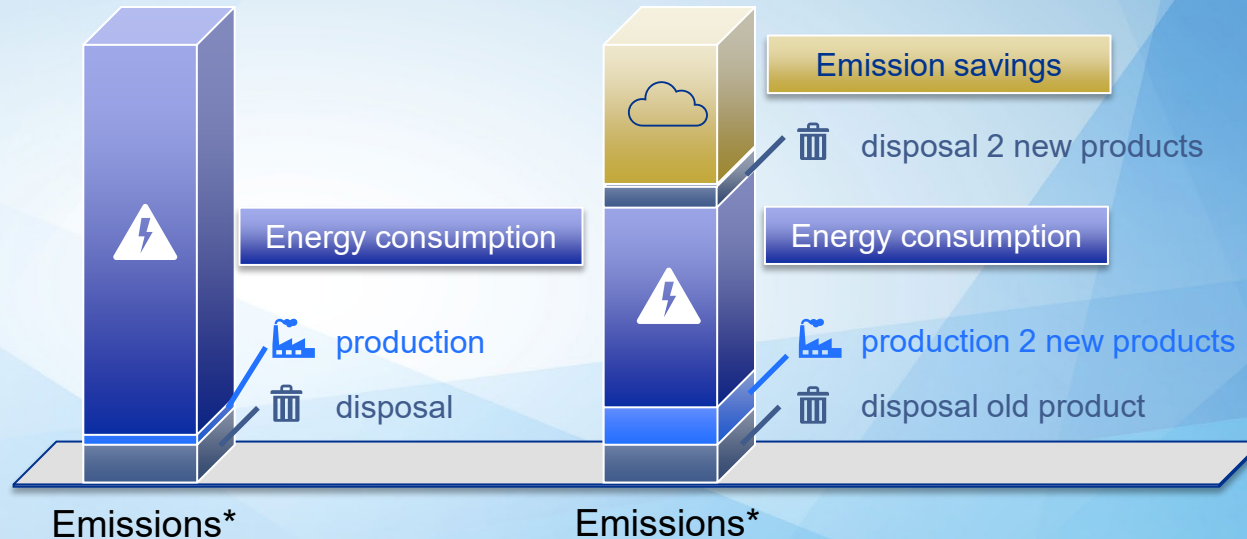
How sustainable is retrofit?

Existing:

- Old product
- High energy consumption
- High emissions

Retrofit:

- New efficient product
- Emissions due to production
- Lower energy consumption



Impact of Retrofit

The break-even point in the use case is reached after



2,670 hours of operation.

After the break-even point the emission savings are around



- 39 %

*same operating time of the systems assumed

Officebuilding in Rotterdam



REDUCTION OF
ENERGY
CONSUMPTION
42 %



ANNUAL SAVINGS
38.960 €



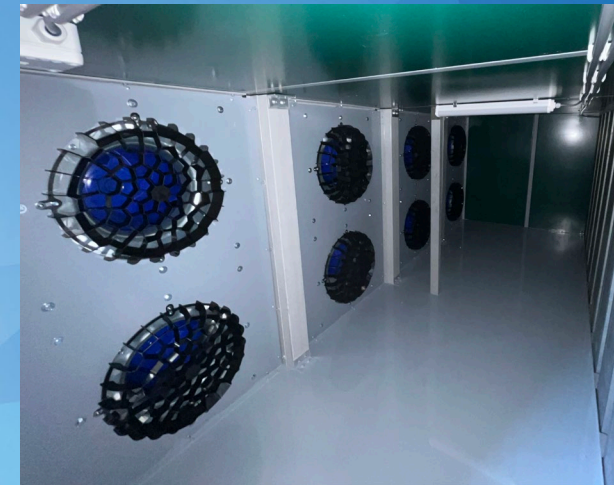
ROI:

0,9 years

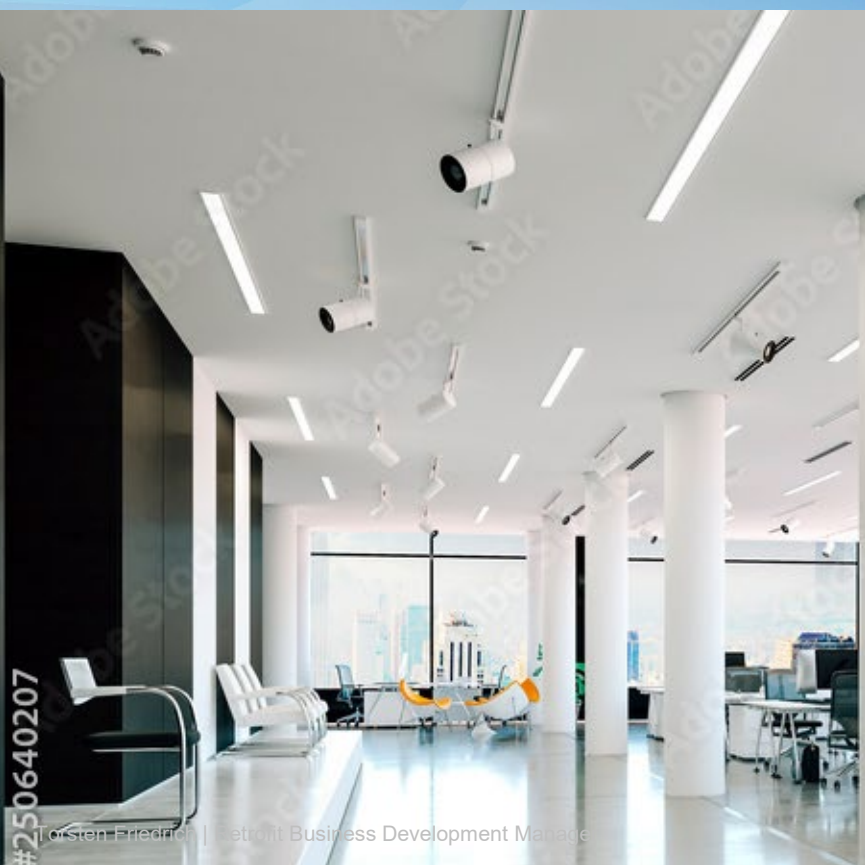


ANNUAL CO2 REDUCTION

62 t



Calculation Examples

- 
- 1,620 m² office area
 - 5,000 m³ of total office space
 - Exchange rate 2 → 10,000 m³ / h
 - Costs 1.50 € / m³ air [filtered, heated, cooled]
→ 15,000 € every year

Retrofit brings it down by 20 – 30 %

ZIEHL-ABEGG RETROFITBLUE

ZIEHL-ABEGG 



Torsten Friedrich

Global Business Development Retrofit

ZIEHL-ABEGG SE

Heinz Ziehl Straße
74653 Künzelsau

Tel. +49 7940 16 90 254

Mobile +49 151 652 260 98

Torsten.Friedrich@ziehl-abegg.de
ziehl-abegg.com



Florian Wagner

Global Business Development Retrofit

ZIEHL-ABEGG SE

Heinz Ziehl Straße
74653 Künzelsau

Tel. +49 7940 16 90 386

Mobile +49 151 543 152 96

Florian.Wagner@ziehl-abegg.de
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**Thank you
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