

MENERGERS

Supported by:



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by the German Bundestag



 Romania Final Conference

 01 October 2024

 Bucharest, Hilton Garden Inn Centrul Vechi





Rezultatele Proiectului din Germania

Oliver Ritter



UfU – Independent Institute for Environmental Issues

- Berlin, Brandenburg
- Saxony-Anhalt
- Germany and European Union

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The MENERGERS impact in Germany



What local activities were generated through the MENERGERS project?

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Activities Carried out



2 Study Visits with Romanian and Bulgarian Delegations

June 26-29 2023 (BG)

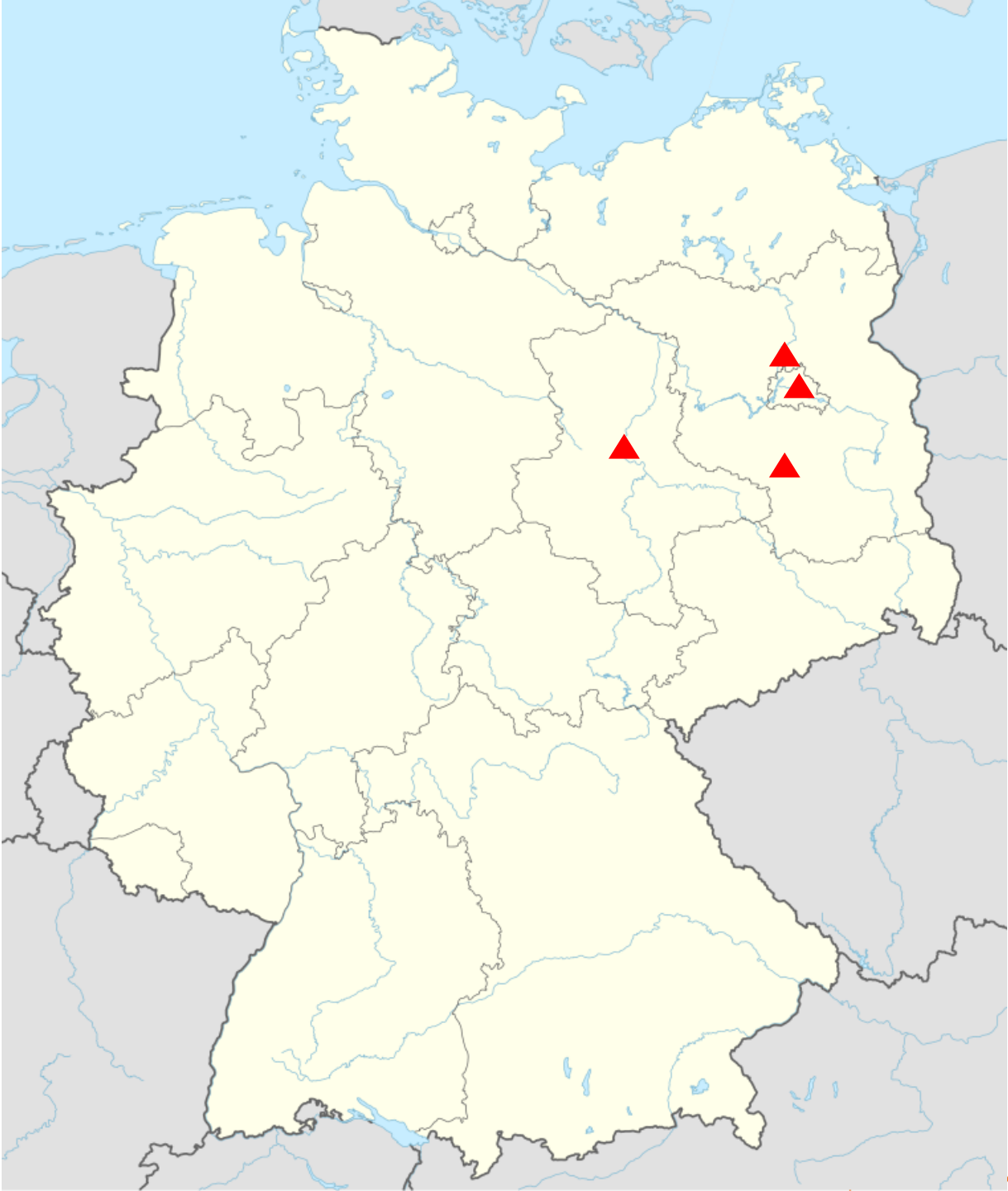
Nov 20-23 2023 (RO)

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Energy Autarc Village of Feldheim

- BG & RO Study Visits
- Population: 124 (7.500)
- State: Brandenburg





Strom



Windpark

55 Wind Turbines,
123 MW installed
capacity, 250.000
MWh annual
production



Battery Balancing Power Plant

10 MW Plant
controls frequency
fluctuations to 50
Hz



Electricity Grid Feldheim

Only a small portion
is consumed in the
village, the rest is fed
into the national grid

Mayors Office Birkenwerder

- Romanian Study Visit
- Nov 2023
- Population: 8.200
- State: Brandenburg



Magdeburg

- BG & RO Study Visits
- State Capitol
- State: Saxony-Anhalt
- Population: 240.000





LENA – State Energy Agency Saxony-Anhalt

■ Bulgarian & Romanian Study Visits 2023

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LENA – State Energy Agency of Saxony-Anhalt

■ Public Sector

- Municipal Heating
- Municipal Energy Management
- European Energy Award



SACHSEN-ANHALT

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LENA – State Energy Agency of Saxony-Anhalt

■ Companies

- Energy Management
- Renewable Energies
- Energy Efficiency



SACHSEN-ANHALT

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LENA – State Energy Agency of Saxony-Anhalt

- Private Households
 - Building and Modernization
 - Energy Consultancy
 - Knowledge Transfer



SACHSEN-ANHALT

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Transparent Criteria

Systematic & Holistic Approach

All Management Levels and Areas

Online Tool for Evaluation

Optimisation of Operations + Investments

Certification

Public Awareness & Role Model

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Activities Carried out



Good Practice Report

Berlin, Germany & EU

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Good Practice Report



EU DE

Leading the way to climate neutrality



Energy Management in Municipalities in the EU and Germany
Experience and good practice

MENERGERS
Leading the way to climate neutrality

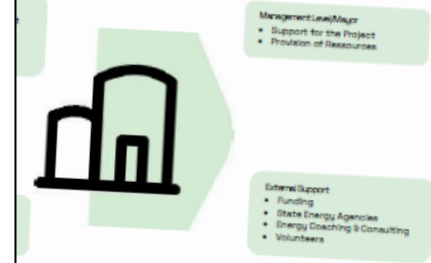
Energy management services in the municipalities

Importance of municipal energy management

Municipal Energy Management (MEM) relates mostly to the energy efficiency of the properties. The goal of municipal energy management is to design all active processes in such a way that the energy consumption of the properties is minimized.¹

Continuous recording and evaluation of consumption of heat, water and electricity is the core element of municipal energy management. It regularly records how much energy the public buildings, street lighting, street plant and all other properties consume and what costs are incurred. This provides an overview of the energy status of the properties.²

Energy management is most of the time not seen as a separate area, but closely linked to other areas of municipal climate protection management. It can be seen as a central element amongst others of municipal climate protection.



Energy management, own representation based on KEA et al., n.d., p. 20

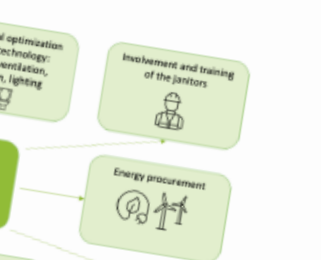
Reichstein, 2023

Leading the way to climate neutrality

Leading the way to climate neutrality

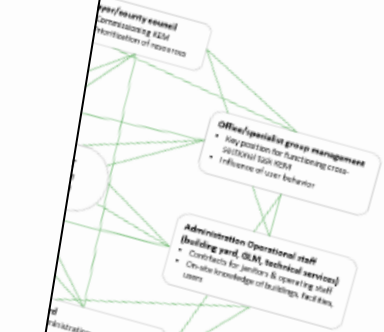
Energy management services

Energy management services (see Figure 2). They analyze energy consumption (non- / low-investment and high-investment measures), energy managers take care of the energy management (e.g., sensitization). In order to initiate energy saving measures, the specialist departments, in particular the technical department, are involved in the consumption recording and evaluation, demand management and 3) Planning and implementation of investment energy saving measures.⁴



Energy management, own representation based on KEA et al., n.d., p. 16

Leading the way to climate neutrality



Energy management, own representation based on KEA et al., n.d., p. 16

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The MENERGERS impact in Germany



What local activities were generated through the MENERGERS project?



How did the city change, due to the MENERGERS project? What impact did the project have on you or your team's professional abilities?



How will your efforts continue to support Municipal Energy Management?

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Good Practice Report



EU DE

Leading the way to climate neutrality



Energy Management in Municipalities in the EU and Germany Experience and good practice

MENERGERS Leading the way to climate neutrality

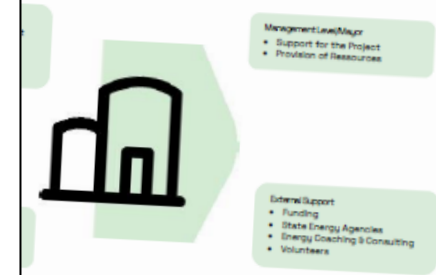
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Energy management, own representation based on KEA et al., n.d., p. 20

Reinhold, 2023

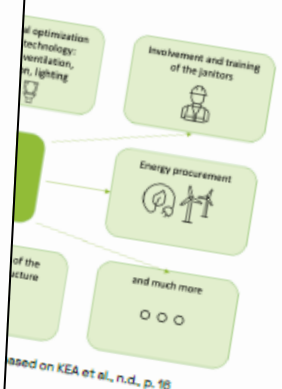
Leading the way to climate neutrality

Leading the way to climate neutrality

Energy management services (see Figure 2). They analyze energy consumption (non- / low-investment and high-investment measures), energy managers take care of the energy management (e.g., sensitization). In order to initiate energy saving measures, the specialist departments, in particular the technical services, are involved.

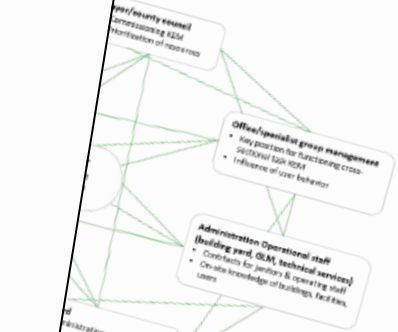
Continuous consumption recording and evaluation, demand and 3) Planning and implementation of investment energy saving measures.

Energy management and coordinates the energy management. The establishment of a management system in the administration is the key to success. Motivation skills, assertiveness, planning and administrative law, and knowledge of construction and plant are essential.



Energy management, own representation based on KEA et al., n.d., p. 18

Leading the way to climate neutrality



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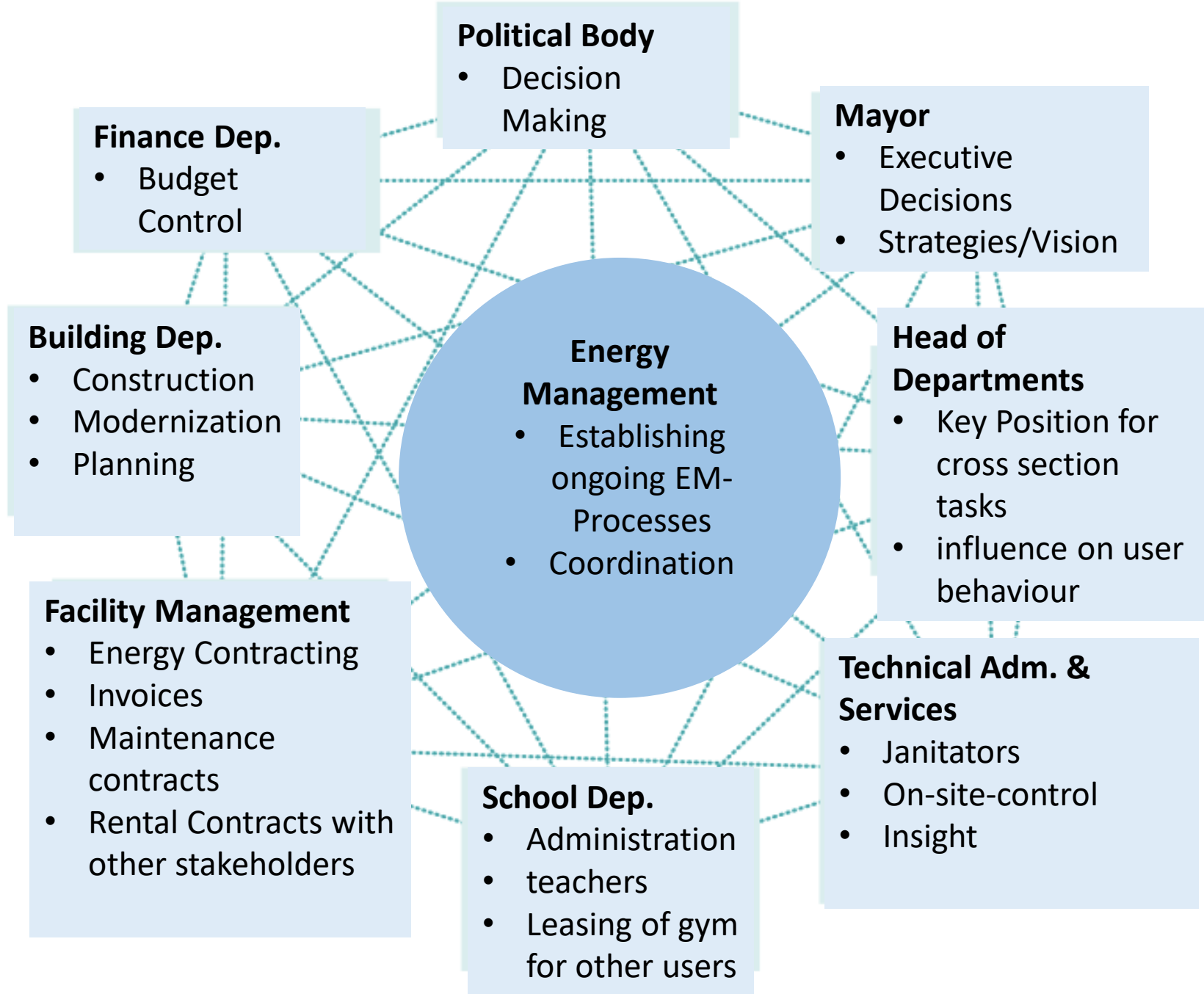
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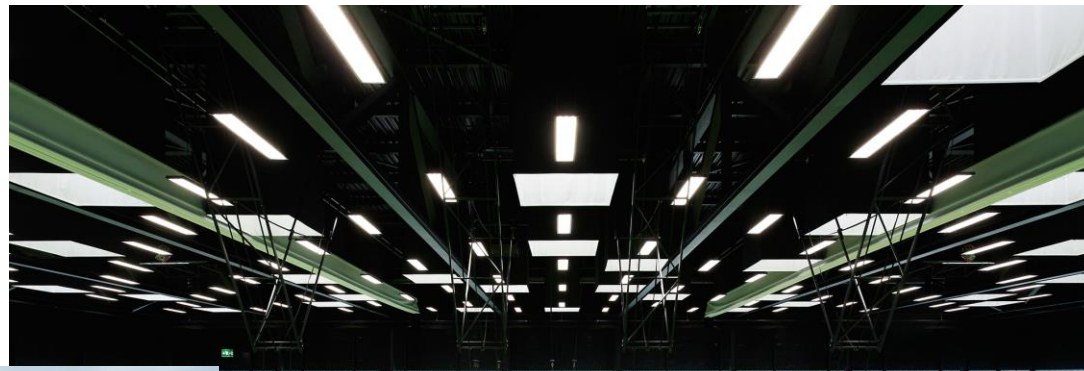
Municipality	Inhabitants	Energy and water costs	Energy management since	Savings
City of Walldorf, Baden-Württemberg	15.909 (2016)	892.000 € (2016)	2013	Heating energy consumption of the 16 energy-relevant properties by 27 percent
Saale-Holzland district, Thuringia	84.525 (2016)	1.524.000 € (2016)	2009	Over 1.500.000 Euro
Unified municipality of Hohe Börde, Saxony-Anhalt	18.769 (2017)	797.000 € (2017)	2016	16.6 percent savings last year, i.e. 1,031,100 kWh of energy and approx. 225 t CO2 less
City of Gröditz, Saxony	7.266 (2016)	239.000 € (2017)	3 years	Energy cost savings of over 33 percent





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Continued Support & Consultancy for Municipalities

- Fifty-Fifty Energy Saving Projects in Schools, Kindergartens and Administration
- KOM.EMS
- Promoting Municipal Networks



**FIFTY/FIFTY
ENERGIESPAREN
AN SCHULEN**



**Kommunales
Energiemanagement-System**

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Legal Obligations and Facilitations

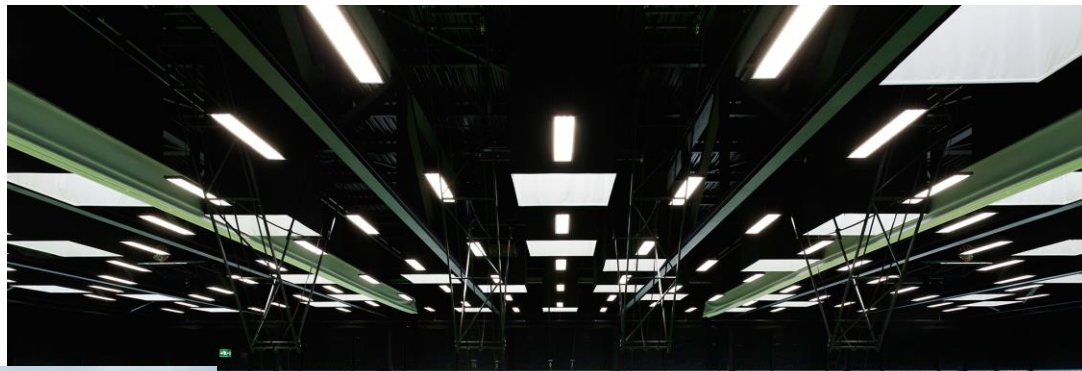
- Energy Data Collection ISO 50001 for Companies (2025) & Public Entities (2026) → EnEFG (Energy Efficiency Act)
- Digital Monitoring and Smart Meter Interface for Non-Residential Buildings > 290 kW Heating
- Energy efficient and renewable municipal Heat Planning → (WPG, Heat Planning Act)
- Facilitation of Photo Voltaic on Buildings → Solar Package 1
- European Energy performance of buildings directive (EPBD)

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MENERGERS

Berlin, Germany

Email: oliver.ritter@ufu.de

Phone: +49 (0) 30 428 4993 21

Website: www.ufu.de

Social Media:     

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