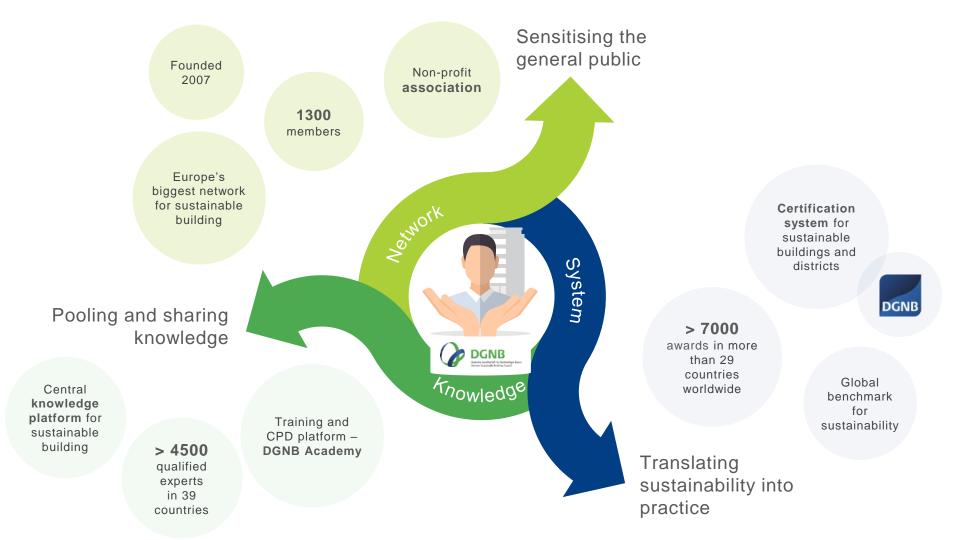


Sustainable Buildings & Cities
Connective Cities virtual Dialogue, 19/5/2021





## A global network Strong partners on a common journey

Members from 30 countries

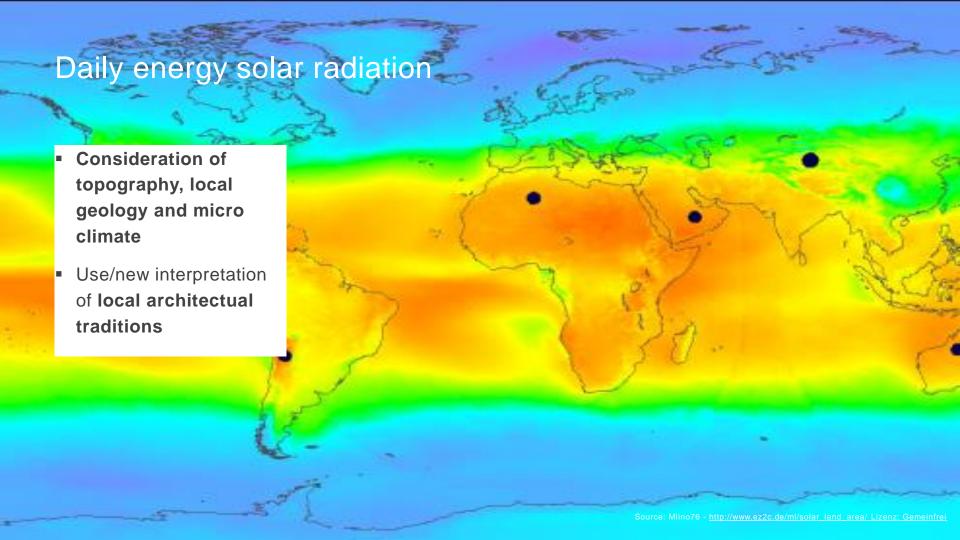
DGNB System Partner in Denmark, Austria, Switzerland and Spain Collaboration with ~ 70 universities and colleges of higher education

Network with partners in more than 40 countries



**Build energy-efficiently =** 

take local climate into account









Climate-neutral building is more than

just energy efficient

# Special Award for "Climate Positiv" Buildings

© HGEsch, Hennef

www.dgnb.de/en/topics/climatepositive/















### **DGNB** Definition: Climate positive

Thus, there is a simple definition for a building with carbon neutral operation:

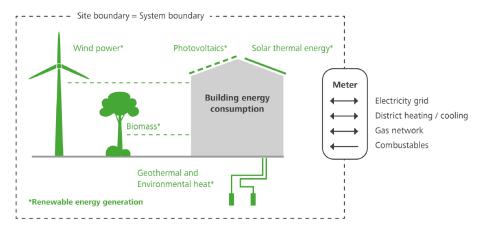
The annual balance of emissions emitted by building operation and emissions avoided by generation of CO<sub>2</sub>-free energy exported off site is zero or less than zero.



#### FUNDAMENTAL ELEMENTS OF THE DGNB DEFINITION FOR THE CARBON NEUTRALITY OF BUILDINGS:

- Goal is a CO<sub>2</sub> balance of 0 or <0 for all building types
- User electricity (so-called plug loads)
   must also be taken into account
- All energy sources are considered with the CO<sub>2</sub> emissions actually caused
- No compensation measures to offset CO<sub>2</sub> emissions

#### Illustration of the system boundaries for building opertation





#### Aktiv-Stadthaus Frankfurt

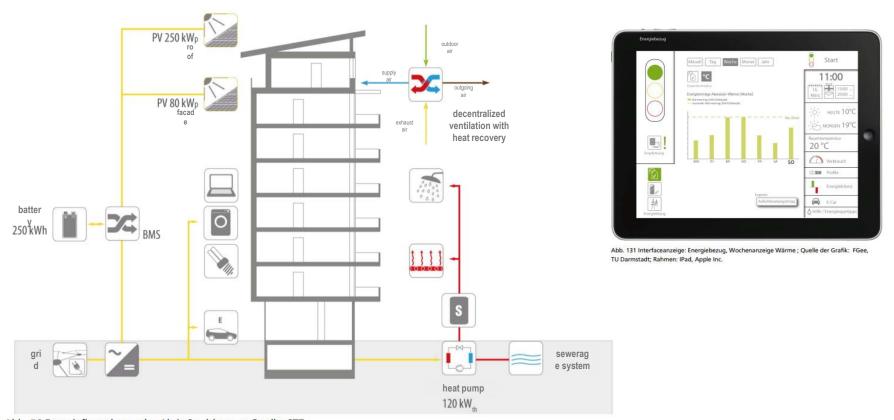
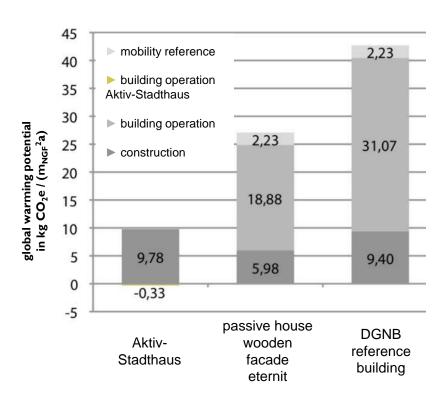


Abb. 56 Energieflussschema des Aktiv-Stadthauses; Quelle: STZ

# Life cycle assessment Aktiv-Stadthaus CO<sub>2</sub> (50 years)



## The **DGNB System** as a tool for sustainable planning, construction and operation

#### Criteria: New Construction International, Version 2020



- Building life cycle impact assessment
- Local environmental impact
- Sustainable resource extraction
- Portable water demand and waste water volume
- Land use
- Biodiversity at the site



- Life cycle costs
- Flexibility and adaptability
- Commercial viability



www.dgnbsystem.de/en/s ervices/requestdgnb-criteria



- Thermal comfort
- Indoor air quality
- Acoustic comfort
- Visual Comfort
- User control
- Quality of indoor and outdoor spaces
- Safety and security
- Design for all



- Fire Safety
- Sound insulation
- Quality of the building envelope
- Use and integration of building technology
- Ease of cleaning building components
- Ease of recovery and recycling
- Immission control
- Mobility infrastructure



- Comprehensive project brief
- Sustainability aspects in a tender phase
- Documentation for sustainable management
- Procedure for urban and design planning
- Construction site / construction process
- Quality assurance of the construction
- Systematic commissioning
- User communication
- FM-compliant planning



- Local environment
  - Influence on the district
- Transport access
- Access to amenities

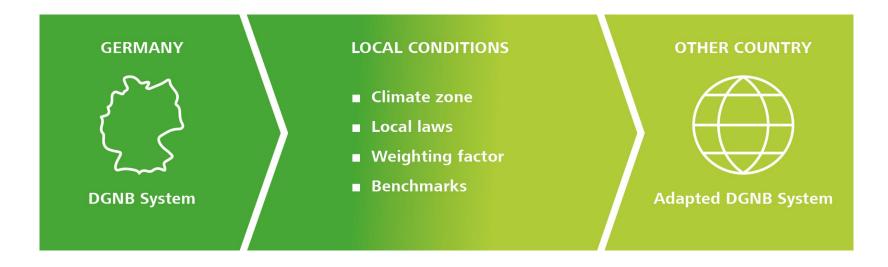
## The Certificate as a Proof of Quality

The Award Levels of the DGNB

|                           | DGNB<br>Platinum | DGNB<br>Gold      | DGNB<br>Silver | DGNB<br>Bronze* |
|---------------------------|------------------|-------------------|----------------|-----------------|
| Total performance index   | 80% and higher   | 65% and<br>higher | 50% and higher | 35% and higher  |
| Minimum performance index | 65%              | 50%               | 35%            | %               |

<sup>\*</sup> This award only applies to certification of existing buildings/the Buildings in Use certificate.

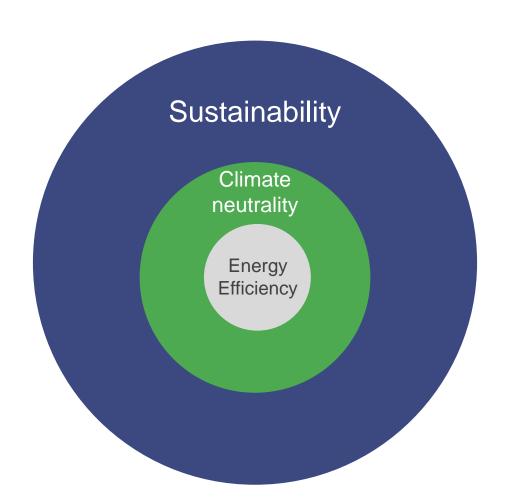
# The DGNB evaluates holistically and world wide, unique system adaptation features





## Summary

## Summary



Let's keep in touch!

#### Free Online events

| May 21, 2021<br>09:00 am | Sustainable and climatepositive districts  The development of sustainable districts is one of the key tasks of urban development today. Climate change, scarcity of resources and social division make change necessary. In this lecture, Dr Stephan Anders will present the DGNB system for districts, which promotes the creation of sustainable, liveable districts in which people feel comfortable without unnecessarily affecting the climate and the environment.  > Registration | Dr. Stephan<br>Anders | 60 min.                   |
|--------------------------|--|-----------------------|---------------------------|
| May 27, 2021<br>09:00 am | What does certification mean? What are the benefits of certification and how does the process work? The online course explains how new buildings, existing buildings, interiors or urban districts can be optimised with the help of the DGNB. Role allocations, costs and awards are also discussed. The online course is a great starting point, giving you all you need to know for sustainability in the construction sector.  > Registration  | Dr. Stephan<br>Anders | 30 min<br>+ 30 min<br>Q&A |





# DGNB CONSULTANT TRAINING

**6 – 9 July 2021 DGNB System knowledge** each day from 10:30 – 12:00 and 13:00 – 14:30 CET and

13 – 14 July 2021 Complementary workshops each day from 10:30 – 12:00 CET

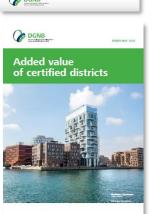
Become an expert for sustainable building and the international application of the DGNB Certification System (Version 2020, international) More information and registration: https://www.dgnb-akademie.de/academy-international/events/

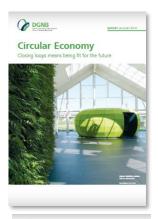


#### **DGNB** Publications

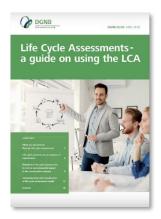














O DGNB

Added value

of certified buildings

# Your Contact at the DGNB

Thank you for your attention





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