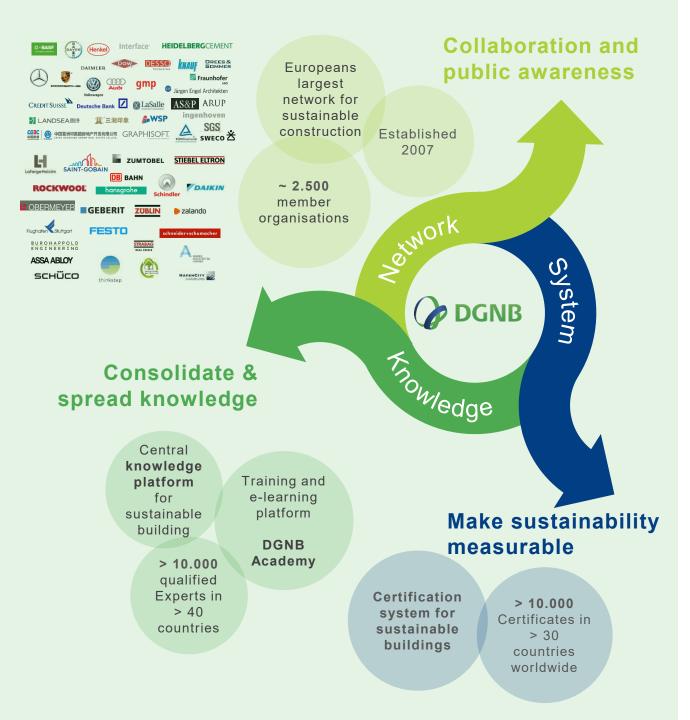


Making sustainability the "New Normal"

DGNB German Sustainable Building Council





What is DGNB?

DGNB is a global and the EU's largest professional network, certification system and knowledge provider making sustainability the "New Normal" in construction.



Current
DGNB System 2020
Available in Chinese

Why use DGNB for certification?

DGNB is a true second generation certification system.



Holistic Optimization

DGNB is the only system recognizing environmental. ecological and socio-functional aspects equally, resulting in balanced, value-adding building performance.



Performance-based Optimization

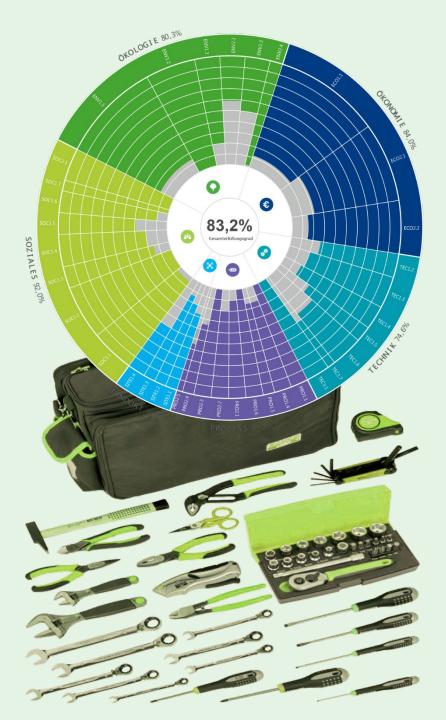
DGNB focuses on performance results, not on specific measures. Instead of a binary checklist. It provides a high-resolution evaluation matrix to map individual KPIs.



Life-Cycle and CO₂ focused

Life-cycle carbon and cost balances have been in the DGNB's system DNA from the start, offering multiple proven and tested tools to realize ambitious targets in leading industry discussions.





DGNB is a toolbox for performance optimization

DGNB is developed primarily as a holistic and efficient performance optimization toolbox, providing clear guidelines, processes and metrics from project management to design, construction and operation.

Project Development Requirements Planning | Targets | CO2 Roadmap

Performance Optimization Holistic Life-Cycle Perspective | Variant Evaluations

CO2 and Regenerative Energy | Water Management | Thermal, Acoustic and Visual Workplace Comfort | Operation and Investment Cost Optimization |

Technical Systems Efficiency and User Control | Health

and Wellbeing | Social Areas | Inclusion

Construction Quality Control Materials Management | Construction Quality

Control | Performance Tests (optional)

Commissioning Real-life Optimization | Monitoring

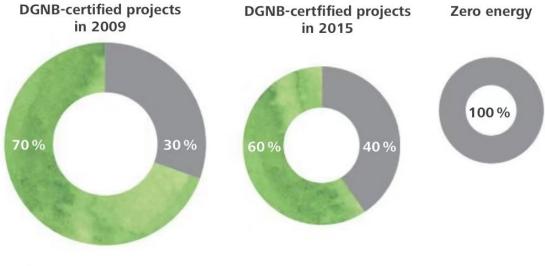
Operation | BIM Documentation | User Guides | FM Guides |

FM Sustainability Management | Reporting

Replication Project as follow-up blueprint

DGNB Ecological Benefits benefits?

- Individualized, strategic roadmap for CO₂-neutrality
- Cheapest way to reduce CO₂ emission and energy demand
- Worldwide recognized standard







DGNB Economic Benefits

benefits?

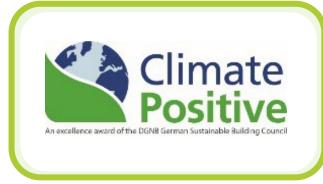
- Added construction costs 0-5% if optimization starts early
- Quick and considerable operation cost savings
- Future-proof quality reflected in long-term asset value protection





DGNB Strategic Benefitsbenefits?

- Healthy, user friendly and comfortable (work) environment
- Adaptability and flexibility for future change
- Showcase for political and competitive communication
- Highly attractive to ESG-reporting EU companies



DGNB Carbon Neutral



DGNB ESG-Verification



















- DGNB pre-certificate for new constructions
- DGNB pre-certificate for districts
- DGNB certificate for districts (planning / development)







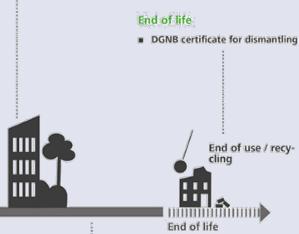




Operation

Platinum

■ DGNB certificate for buildings in use





















- DGNB certificate for existing buildings
- DGNB certificate for renovated buildings
- DGNB certificate for interiors

DGNB's certification eco-system

DGNB provides integrated certification schemes for planning, operating and renovating new and existing buildings.

Certification

DGNB provides "Silver, Gold and Platinum" labels as well as zero-carbon and ESG verifications

"Big Picture" Performance Balances

DGNB schemes can provide a complete, data-driven account of an entire company's site or regional assets to identify highest and most suitable optimization potentials across multiple buildings and locations

Replication

DGNB schemes provide easy solutions for replicating projects or certifying multiple similar buildings with considerable reduction in effort







DGNB certificate for interiors

DGNB certificate for districts



DGNB certificate for new constructions



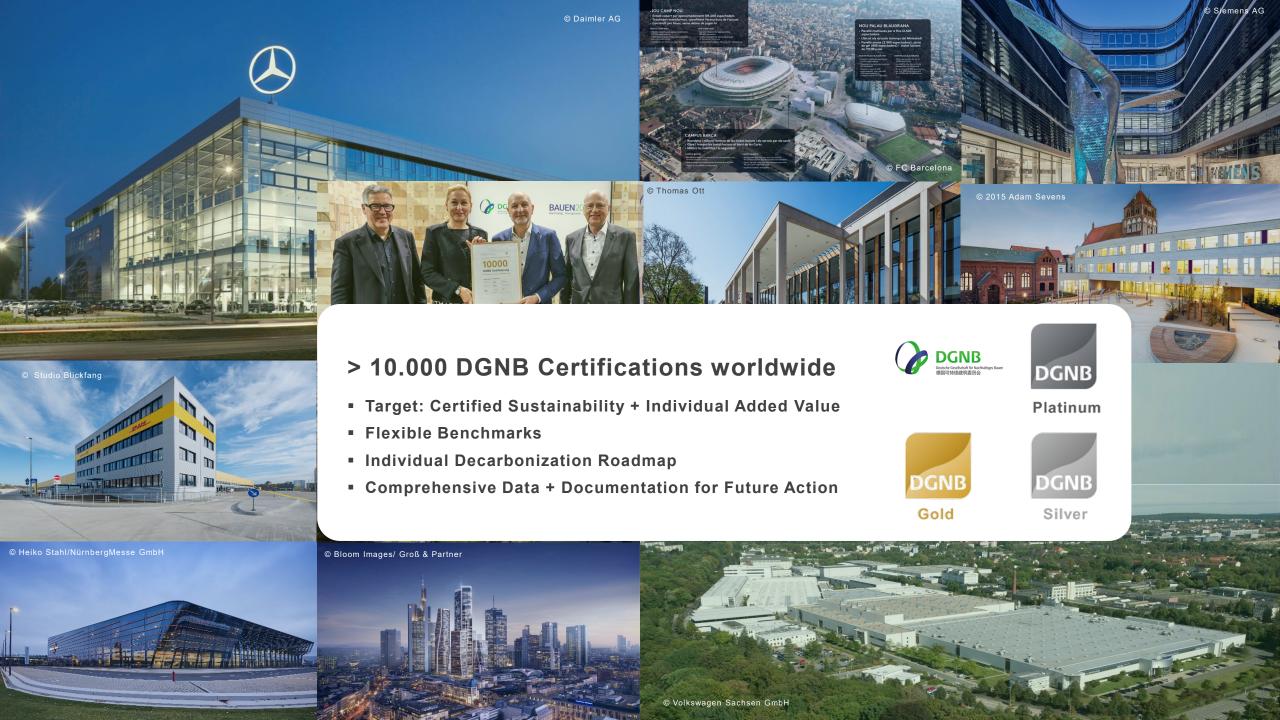














DGNB's ESG-Verification

DGNB offers an add-on ESG-Verification for the building's conformity with the EU taxonomy with related documentation of:

Substantial Contribution

to climate change mitigation / adaption or circular economy

DNSH (do-no-significant-harm) Contributions to water management, circular economy, pollution prevention and ecosystem protection



ESG-Verification Schemes

- New Construction
- Renovation
- Acquisition and Ownership (Operation)



DGNB ESG-Verification Benefits

ESG Reporting is directly relevant to >50.000 companies within the EU.

Third Party Verification

Offering third party DGNB ESG-Verification for fixed assets in local Industry and Office Parks is a high value proposition, especially to attract investment from EU companies.

The Right Information

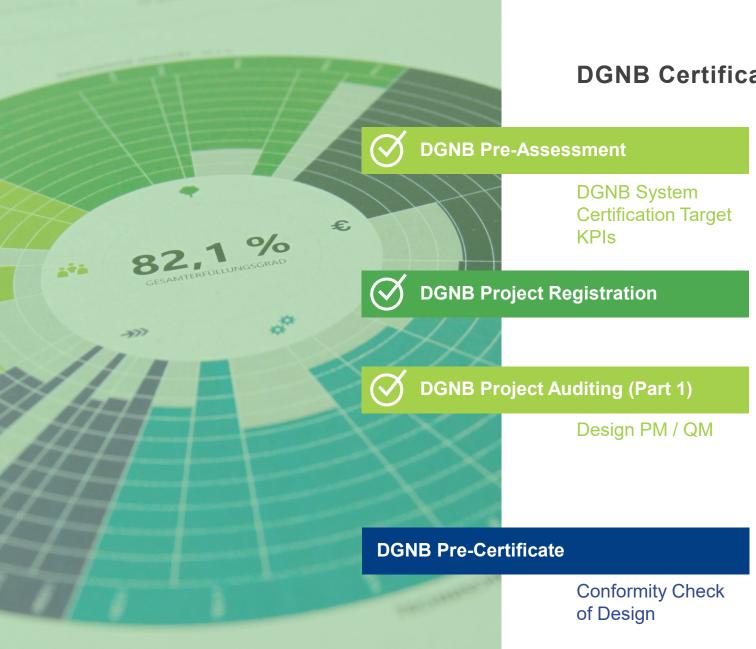
DGNB has developed closely in line with EU taxonomy, assessing and evaluating the right type of information at the requested level of detail and granularity relevant for ESG reporting.

Future Proof Investments

CO2 Footprint, circularity, future adaptability and resilience are key concepts of sustainability and value stability – holistically reflected within the DGNB system.







DGNB Certification Milestones

DGNB Auditor

- Sustainable Requirements Planning
- Strategic Optimization Variants
- Summary Report for Decision-Making

DGNB GmbH

DGNB Auditor

- DGNB-specific Stakeholder Management
- Technical Advise and Calculations
- Documentation + Submission in planning / design phase

DGNB GmbH

Formal DGNB Certificate Planning Stage (valid until construction finished)

DGNB Certification Milestones DGNB Pre-Assessment Construction QM Auszeichnung für nacht **DGNB Certificate (+ ESG Verification)** betriebene Gebäude **Conformity Check** of Construction PLATIN Follow-up DGNB Certifications (optional) thaltiges Bauen

DGNB Auditor

- DGNB-specific Stakeholder Management
- Technical Advise and Calculations
- Supervision of on-site Testing
- Documentation + Submission in construction phase

DGNB GmbH

Formal DGNB Certificate (no validity limit), including optional ESG-Verification

Owner / DGNB Auditor / DGNB GmbH

- Ensemble certification for multiple buildings
- Portfolio certification
- DGNB certification of building operation
- DGNB Climate Positive for CO2-neutral buildings

What are DGNB workflow benefits?



DGNB's mission is the development of FUTURE-PROOF buildings, meeting climate targets and providing individual added value.

Creating measurable, day-to-day benefits

... from tailored workspace quality to operational flexibility and future adaptability

Toolbox for tailored implementation of individual KPIs

... from passive design, materiality and layout to regenerative technical components and facilitation of efficient operation

Reliable parametric data for efficient decision-making

... from political communication to reporting and stakeholder management

Holistic Optimization "from the first line on paper"





What are DGNB certification benefits?

Certified DGNB projects typically display the following benefits:

High CO₂ emission and energy demand reduction (Including tailor-made, strategic CO₂-neutral Roadmap)

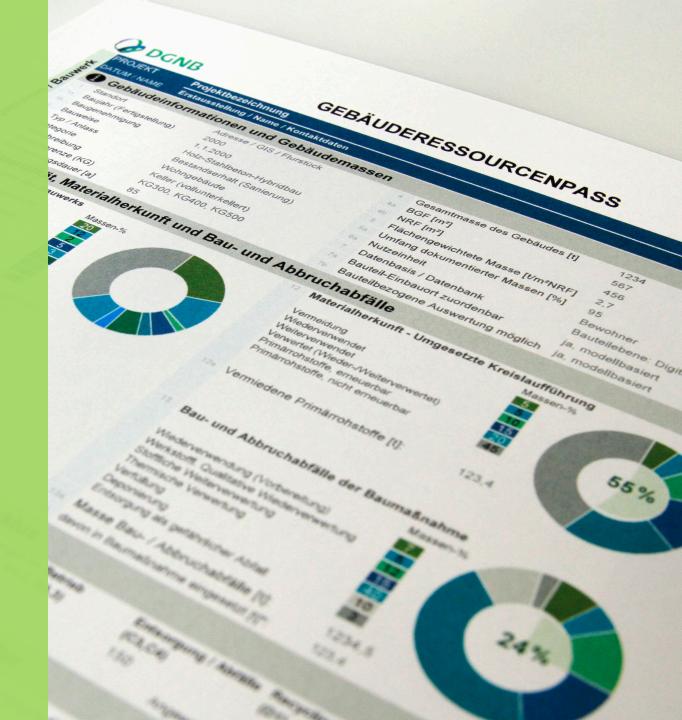
Low operating costs and life-cycle cost (Typical added upfront investment <5%)

Healthy, user friendly and comfortable work environment (Thermal, acoustic, visual comfort, TVOCs, Indoor Air Quality etc.)

Adaptability and flexibility for future change (Zonal, structural and technical building concept)

Showcase for political communication
(Quantified and qualified performance data linking up with the "big topics" of carbon neutrality, circular economy and ESG)

DGNB Innovation













DGNB New System Components

DGNB is built on a long term perspective and continuous innovation.

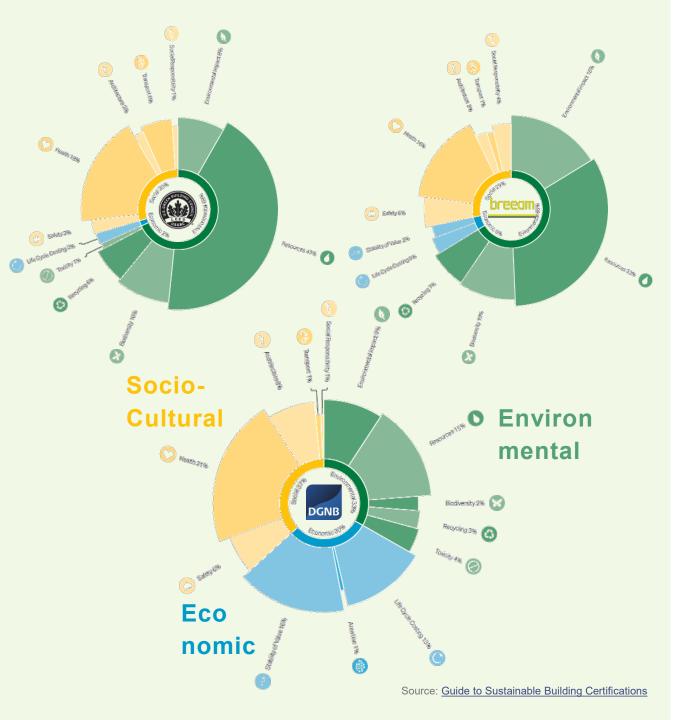
DGNB "Climate Positive" CO2 Neutrality Roadmaps
Cheapest way of achieving carbon zero (operation or
life cycle) by simply synergistically refocusing
measures and investment today and tomorrow

"Building Resource Passport" (BRP)

Established in EU in 2023, the BRP represents today's buildings as tomorrow's resources – from carbon to materials and spatial adaptability

DGNB Biodiversity Certificate

The brand-new "Biodiversity" DGNB system focuses on integrated vegetation as contributions to our increasingly volatile natural ecosystems.



DGNB is a 2nd Generation Certification System

DGNB provides a systematically balanced, holistic and calibrated approach to Sustainability Certification.

DGNB balances of environmental, economic and socio-functional criteria

(Each aspect reflected equally in final scoring, including a life-cycle cost assessment including operation)

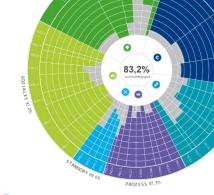
DGNB holistically defines indicators

(Reflecting 100% of LEED and ca. 75% of WELL indicators within one combined system)

DGNB calibrates to individual priorities

(Providing a high-resolution evaluation matrix instead of a binary checklist approach)

Criteria for buildings – Version 2020 (international)















SITE1.1 Local Environment

SITE1.2 Influence on District

SITE1.3 Transport Access

SITE1.4 Access to Amenities

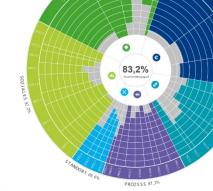
ENV1.1	Building LCA	ECO1.1	Life-Cycle Cost
ENV1.2	Local Env. Impact	ECO2.1	Flexibility / Adaptability
ENV1.3	Sustainable Resources	ECO2.2	Commercial Viability
ENV2.2	Water Demand		
ENV2.3	Land Use		
ENV2.4	Biodiversity		

SOC1.1	Thermal Comfort	TEC1.1 Fire Safety
SOC1.2	Indoor Air Quality	TEC1.2 Sound Insulation
SOC1.3	Acoustic Comfort	TEC1.3 Building Envelope
SOC1.4	Visual Comfort	TEC1.4 Building Technology
SOC1.5	User Control	TEC1.5 Ease of Cleaning
SOC1.6	Indoor / Outdoor	TEC1.6 Recovery / Recycling
SOC1.7	Safety and Security	TEC1.7 Imissions Control
SOC2.1	Design for All	TEC3.1 Mobility Infrastructure

PRO1.1	Comprehensive Brief
PRO1.4	Sustainability in Tender
PRO1.5	Sustainable Management
PRO1.6	Design Procedure
PRO2.1	Construction Site / Process
PRO2.2	Quality Assurance
PRO2.3	Systematic Commissioning
PRO2.4	User Communication

PRO2.5 FM-compliant Planning

0 - 100 Points per indicator | 0 - 3.800 Points in total High resolution mapping system of individual priorities and specific project KPIs















```
ENV1.1 Building LCA

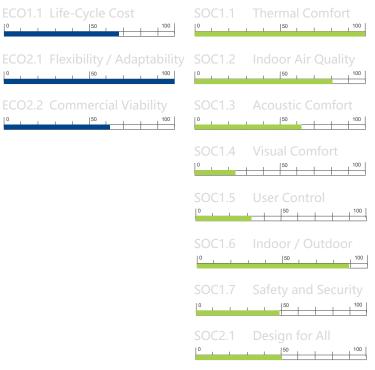
ENV1.2 Local Env. Impact

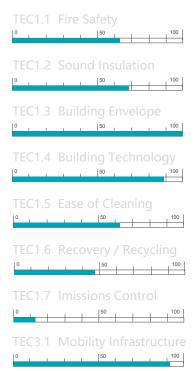
ENV1.3 Sustainable Resources

ENV2.2 Water Demand

ENV2.3 Land Use

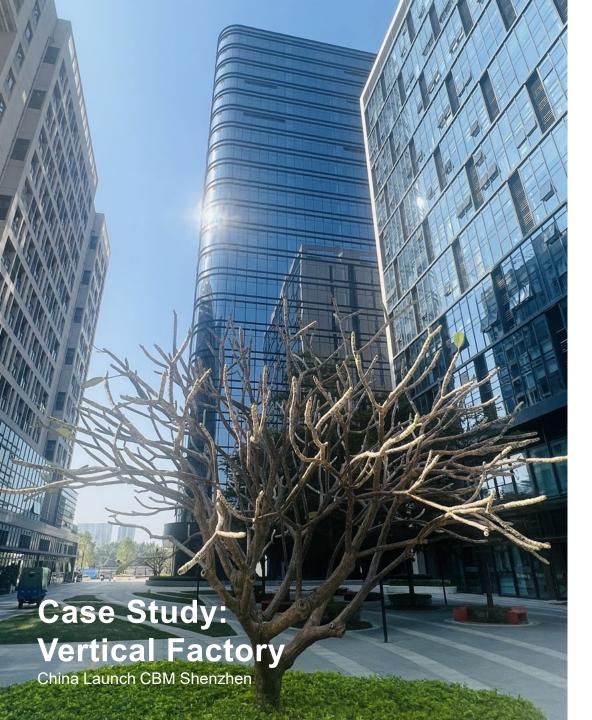
ENV2.4 Biodiversity
```











How does DGNB Flex work?

DGNB Flex provides maximum flexibility and system integration:

Mixed Use, Serial and Ensemble Certifications possible (Including single buildings, clusters and entire districts)

Capitalize on full impact of synergistic strategies
(Shared facilities between buildings are actively encouraged)

Adaptive use and weighting of criteria and indicators (Reflecting relevant KPIs as realistically as possible)

Replicability of tailored Certification System
(DGNB Flex schemes can be stand-alone or replicated)

DGNB Co-Creation





DGNB Co-Creation offers unique tailor-made Certification Standards

DGNB teams up with developers in strategic large scale projects to deliver individual certification systems.

Based on DGNB Eco-System methodology (Holistic, life-cycle-oriented and performance focused)

Reflecting individual targets

(Individual system focus and comparative positioning – e.g. CO2 neutrality, efficient construction etc.)

Reflecting individual strategies and priorities (Individual certification levels, pre-requisites, selection and weighting of indicators)

Integrated Certification Standard

(Individual eco-system components from district to building, from design to operation)



Energy Efficiency



Public Quality



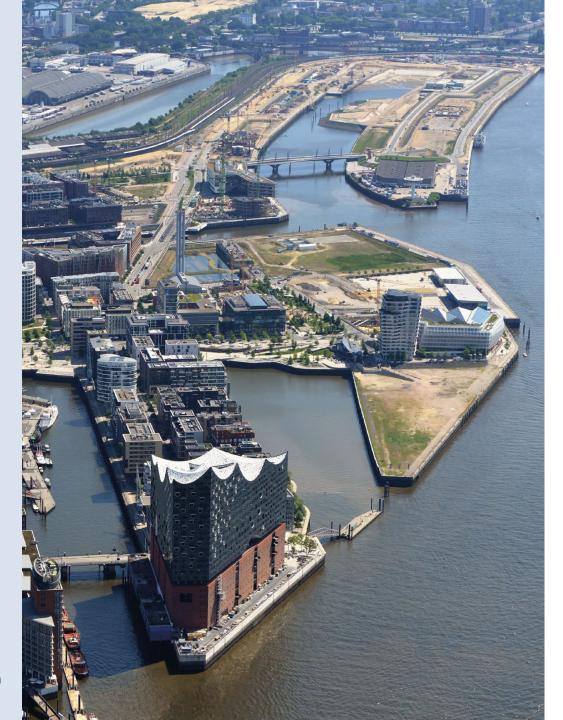
Ecological Materials



Health and Wellbeing



Sustainable Operation



"DGNB Inside": HafenCity Label Hamburg

4 sites (total of ca. 400ha) with tailored compulsory sustainability standard cocreated with DGNB

DGNB "Umweltzeichen" HafenCity Label (Exclusively exists for the HafenCity development)

Standards and Benchmarks

(Based on DGNB methodology, adjusted to HafenCity selection, weighting and priorities)

Building on existing Expertise (Conformity checks follow DGNB est

(Conformity checks follow DGNB established workflows)

Sustainability as holistic Pre-Requisite

(No certification levels, compulsory verification for construction and subsequent operation)

DGNB Certification ESG Verification Workflow



DGNB / ESG Certification **Workflow Steps**

Step 1: **Vision Development**

DGNB Project Registration

Individual, stakeholderdriven definition of

- **Budget Constraints**
- **Individual KPIs**
- **Target Definitions**
- **Decision Milestones**

Step 2: **Variant Evaluation**

DGNB Auditing in Integrated Design

DGNB Pre-Certification

Optimization and comparison of strategic variants:

- **Alternate KPI Prioritization**
- **Alternate Certification Targets**
- **Synergistic Planning Solutions**

Comprehensive set of parameters:

- CO₂ Footprint / Energy Demand
- Operation / Investment Costs
- Comfort and Health
- Functional Quality
- Technical Adaptability

Step 3: **Individual Roadmap**

DGNB Auditing downstream Construction

Synergistic integration into individual roadmap:

- Clear specifications
- Clear performance targets
- Adjusted to individual timeline
- Adjusted to individual budgeting
- Short / Medium / Long Term **Certification milestones**

Step 4: Certification

DGNB Certificates

- **DGNB** Certification
- **ESG** Verification

Additional key benefits:

- Comprehensive Data Documentation for Future Use
- Possible Replication



- highly adaptable workflow
- balancing individual targets and constraints
 - creating a customized implementation roadmap



BUILDING TODAY FOR TOMORROW







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