The association for sustainable building in the building and real estate sectors

- Non-profit and non-governmental organization, founded 2007
- Independent community of experts with more than 1200 member organizations
- Approximately 500 volunteers in DGNB Working Groups and Committees
- National and international knowledge platform
Selected DGNB members...
A holistic approach

- Environmental quality: 22.5%
- Economic quality: 22.5%
- Sociocultural and functional quality: 22.5%
- Technical quality: 22.5%
- Process quality: 10%
- Site quality
Definition of System Values

- Target Value: Best Practice
- Reference Value: Good Practice
- Limit Value: Typical Practice

<table>
<thead>
<tr>
<th></th>
<th>EVALUATION POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARGET VALUE</td>
<td>10</td>
</tr>
<tr>
<td>REFERENCE VALUE</td>
<td>5</td>
</tr>
<tr>
<td>LIMIT VALUE</td>
<td>1</td>
</tr>
</tbody>
</table>

Achievable Goals
Evaluation Matrix

Example of an evaluation matrix of a DGNB gold certified building, occupancy profile “New Office and Administrative Buildings, version 2009”
DGNB System (new construction)

- 5 qualities
- 36 criteria
- 4 performance indexes (new: "DGNB Platin")
- DGNB accessory claims
- Minimum requirements have to be fulfilled in each evaluation area
## Comprehensive Quality

<table>
<thead>
<tr>
<th>Total Performance Index</th>
<th>Nominal Performance Index</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>ab 35 %</td>
<td>— %</td>
<td>Bronze</td>
</tr>
<tr>
<td>ab 50 %</td>
<td>35 %</td>
<td>Silber</td>
</tr>
<tr>
<td>ab 65 %</td>
<td>50 %</td>
<td>Gold</td>
</tr>
<tr>
<td>ab 80 %</td>
<td>65 %</td>
<td>Platin</td>
</tr>
</tbody>
</table>

* Only existing buildings and operation
Focus on the building life cycle
2nd Generation Certification System

**Embedded LCA** (Life Cycle Assessment)
- Systematic analysis of the environmental impact of products during their entire life-cycle. Harmonized by international standards (ISO 14040 / 14044)

**Emphasis on LCC** (Life Cycle Costing)
- Total cost throughout the entire life-cycle incl. selected construction, operation and maintenance costs directly attributable to owing or using the asset

**Oriented towards performance and targets**
- Assessment of the building as a whole, not individual measures
2nd Generation Certification System

Dynamic System
- Adaptable to other technical, societal, cultural and climatic conditions

Future-Proof
- Based on European standards and guidelines (e.g. CEN/TC 350 etc.)
2nd Generation Certification System

Pre-Certification

- Basic Evaluation
- Preliminary Planning
- Blueprint and Approval Planning
- Implementation and Detailed Planning
- Tendering, Assignment
- Building Construction

- Ability to influence
- Cost and effort for changes

BEGINNING: DGNB PRE-CERTIFICATION

COMPLETION
Pre-Certification

- DGNB Criteria as guiding instrument in the planning phase
- Supports risk management
- Insures transparency and clear processes
- Defines specific performance objectives
- Promotes integrated planning and early establishment of communication
International Adaptation

Local conditions

System

Adapted system

Limit value/
Reference value

Weighting factor

Benchmarks
International Adaptation - Examples

DGNB System

- DGNB System Greece
- DGNB System Russia
- DGNB System Germany

Existing

New
- Office
- Residential
- Office
- Retail
- Office
- Residential
- Retail
Development DGNB Certifications worldwide

Awards: Buildings/districts can achieve a pre-certificate as well as a certificate
Projects: The current award of a project
Certification Process

Design team

Building owner/investor

DGNB Auditor

DGNB

contract

consultation

documentation

licence
Shape the future today!