Assemblea professionisti accreditati per l’edilizia sostenibile

Relatore
Manuela Ojan

Aggiornamenti internazionali

Con il supporto di:
LEVELs

Level(s) – approccio europeo per il reporting della sostenibilità della prestazione degli edifici

**Level(s) is:**
- A voluntary stand-alone reporting tool
- Using a limited number of indicators
- Based on existing standards
- Targeting the mainstream market
- Possible for certification schemes to use as a module

**Level(s) is NOT:**
- Used for EU benchmarks or EU certification
La ERN di WorldGBC opera a supporto dello sviluppo e divulgazione dello schema LEVELs

Macro obiettivi e 5 “core indicators”

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<table>
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<tr>
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<tbody>
<tr>
<td>1.</td>
<td>GHG Emissions</td>
<td>Use stage energy performance: kWh/m²/year</td>
<td>Life Cycle GWP embodied CO₂ eq./m²</td>
<td>LCA cradle to grave</td>
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<td>3.</td>
<td>Water Use</td>
<td>Use stage water consumption: m³/occupant/year</td>
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<td>4.</td>
<td>Indoor Environmental Quality</td>
<td>Indoor Air Quality (design indoor conditions and target pollutants) Thermal Comfort: % time out of range degree days or hours</td>
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<td>5.</td>
<td>Climate Change</td>
<td>Extreme weather events under future climate scenarios: Thermal Comfort: % time out of range degree days or hours 2030/2050</td>
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<td>6.</td>
<td>Cost &amp; Value Optimised over whole life</td>
<td>LCC (Life cycle costs): acquisition, utility, maintenance EUR/m²/year</td>
<td>Value Creation &amp; Risk Factors: Data quality of indicators</td>
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</table>
Le modalità di reporting

Spreadsheets-based format available from April 2018 which incorporates all the Level(s) templates

- Participants join an online survey on their experience using Level(s)
  - About time, costs, external expertise and data needs
  - Main recommendations for improvement (e.g. guidance, reporting tools)

- The extent to which it was possible to use it with in-house expertise or if external expertise was needed
- The time, cost and data needs and at different levels
- The relative value of the different aspects of levels
- Your main recommendations for improvement and support needs
Edifici partecipanti al test in Europa

Reporting:
- Risultati: 30/06/2019
- Commenti: 30/09/2019

19 progetti in Italia:
- 9 residenziali
- 10 uffici
GBC Italia quale referente nazionale, con il riconoscimento dalla DG Environment

Lettera di riconoscimento del lavoro che GBC Italia sta svolgendo per promuovere LEVELs a livello nazionale del 19/02/2019, firmata da Kestutis Sadauskas, Director of Directorate B, Circular Economy and Green Growth, DG Environment, EC
Gruppo di Lavoro LEVELs

Partecipanti:
• 12 esperti (soci e professionisti iscritti ai chapter)
• 8 professionisti che stanno partecipando alla fase di test (alcuni soci altri no)

Obiettivi:

a breve termine:
- creare un capirre l’attuabilità dello schema LEVELs a scala nazionale (verifica di dati, normative, strumenti)
- supportare i progettisti nella fase di test attraverso la consultazione degli esperti di GBC Italia

a conclusione della fase di test:
- acquisire informazioni e casi studio per impostare un confronto tra LEVELs e i principali schemi di certificazione nazionali (in particolare LEED e GBC tools)
- Valutare la possibilità di intraprendere un percorso di allineamento dei protocolli GBC allo schema LEVELs
- definire una checklist per valutare la compatibilità della certificazione LEED con lo schema LEVELs e le integrazioni necessarie
## LEVELs

### Ciclo di call e nomina degli esperti a supporto dei tester

<table>
<thead>
<tr>
<th>Data</th>
<th>Argomento</th>
<th>Esperto</th>
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<tbody>
<tr>
<td>Ven 19 Aprile</td>
<td>1.1 Use stage energy consumption (primary and delivered energy)</td>
<td>Maco Filippi (POLITO)</td>
</tr>
<tr>
<td>Ven 3 Maggio</td>
<td>4.1 Indoor air quality (at Level 1)</td>
<td>Luca Alberto Piterà (AICARR)</td>
</tr>
<tr>
<td>Lun 6 Maggio</td>
<td>4.2 Time out of thermal comfort range (at Level 1)</td>
<td>Maco Filippi (POLITO)</td>
</tr>
<tr>
<td>Ven 10 Maggio</td>
<td>2.1 Life cycle tool: Building Bill of Materials (BoM)</td>
<td>Marco Mazzetti (MAPEI)</td>
</tr>
<tr>
<td>Ven 17 Maggio</td>
<td>2.3 Construction and demolition waste and materials</td>
<td>Marco Mazzetti (MAPEI)</td>
</tr>
<tr>
<td>Ven 31 Maggio</td>
<td>1.2 Life cycle Global Warming Potential (simplified option)</td>
<td>Monica Lavagna (POLIMI)</td>
</tr>
<tr>
<td>Ven 7 Giugno</td>
<td>3.1 Use stage water consumption</td>
<td>Andrea Fornasiero (MANENS-TIFS)</td>
</tr>
</tbody>
</table>
A global campaign to accelerate uptake of net zero carbon buildings to 100% by 2050

**Project targets**

- Increase awareness and education
- Achieve alignment and commonality between GBC approaches and certification schemes
- To expedite uptake in global markets by sharing market leadership examples

*Call for action launched in May 2017*
Advancing Net Zero

**WorldGBC definition:**
A net zero carbon building is highly energy efficient with all remaining energy from on-site and/or off-site renewable sources.

**Key Principles**

1. **Measure and disclose carbon**
   Carbon is the ultimate metric to track; buildings must achieve an annual operational net zero carbon emissions balance based on metered data.

2. **Reduce energy demand**
   Prioritise energy efficiency to ensure that buildings are performing as efficiently as possible, and not wasting energy.

3. **Generate balance from renewables**
   Supply remaining demand from renewable energy sources, preferably on-site followed by off-site, or from offsets.

4. **Improve verification and rigour**
   Over time, progress to include embodied carbon and other impact areas such as zero water and zero waste.

**Timeline**

- **2050**: 100% of buildings must operate at net zero carbon
- **2030**: All new buildings must operate at net zero carbon

**Supporting Graphs and Maps**

- **Government Engagement**
- **Training & Education**
- **Corporate Engagement**
- **Certification**
1. **Operational Carbon**  
   Track metered performance

2. **Energy Efficiency**  
   Reducing Energy Wastage

3. **Renewable Energy**  
   Onsite / Offsite / Offset

4. **Expand Scope**  
   i.e. embodied carbon, other impact emissions
Advancing Net Zero Global Project
Commitment of Participation

On behalf of my Green Building Council, I confirm the following:

Objective #1: Net Zero Certification Programme
My GBC will use its best efforts to establish or endorse a net zero certification program for at least one building type by the end of 2019, or as soon thereafter as possible. Endorsement may include adapting an existing certification program. In such a case, my GBC will actively work to market, brand and promote the program so that uptake because of my GBC’s involvement is greater than if otherwise would have been.

Objective #2: Net Zero training
My GBC will prioritise, including allocation of staff and other resources, to developing and/or adapting training resources for my market on the subject of net zero certification and/or buildings, and to track progress.

Objective #3: Net Zero demonstration projects
My GBC will aim to line-up at least 3 demonstration projects under a defined net zero certification program, with plans to commence construction/renovation as soon as possible.

Objective #4: Government Engagement
My GBC will actively engage with local and national government to advocate the agenda for net zero buildings, and assist with developing the mechanisms, incentives and landscape for mass uptake of net zero carbon buildings.

Objective #5: Corporate Engagement
My GBC will actively engage with our members to support them in their net zero journey, such as raising awareness, sharing best practices, determining the alignment of member corporate strategies with the Net Zero Carbon Buildings Commitment, encouraging them to join when appropriate, and supporting them in delivery to achieve their targets.

Objective #6: Embodied Carbon
My GBC will actively participate, including allocation of staff and other resources, to the (Net) Zero Embodied Carbon in buildings research project, to include contribution towards the Working Group and/or Taskforce activities and workshops, identification of local experts and best practice examples, and review of the ‘Call to Action’ report prior to publication in September 2019.

Objective #7: Other (please write out)
My GBC will actively participate to workshop and conferences organized by WGBC within the framework of ANZ initiative (e.g. net zero carbon workshops in EU) when related to topics of major interest for the activities of the association and its members.

In addition to committing to the project objectives listed above, by signing below I also understand and am committing my GBC to the following:

• My GBC will track the uptake of net zero buildings because of our actions, including the numbers of buildings certified and in construction, and will report back to WorldGBC when requested.
• WorldGBC can publicly announce the involvement of my GBC in the project, via project communications, conference presentations, reports etc.

Date
20/03/2019
Giuliano Dall’Or (President)
**Objective #3: Net Zero demonstration projects**

My GBC will aim to line-up at least 3 demonstration projects under a defined net zero certification program, with plans to commence construction/renovation as soon as possible.

- Linee guida a supporto della selezione dei progetti
- Criteri: messi a confronto i requisiti del progetto ANZ con gli indicatori di riferimento nei protocolli certificazione GBC Italia, LEED, Casaclima, Passivehaus e altre certificazioni che potrebbero essere presentate a supporto dei progetti
- Allineamento con USGBC sul programma LEED ZERO

- The USGBC has launched Pathway to Net Zero, a **platform providing educational resources** to help practitioners position LEED projects towards net zero energy, water and waste.
- It includes technical aspects such as energy modelling, and insights from case studies that have achieved this level of performance.
- Mapping of the prerequisites and credits in LEED v4 NC that help make net zero possible.
- Use of Arc platform for a net zero carbon operations verification for building projects.
Objective #3: Net Zero demonstration projects
My GBC will aim to line-up at least 3 demonstration projects under a defined net zero certification program, with plans to commence construction/renovation as soon as possible.

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Gli edifici selezionati saranno nostri testimonial per il progetto Advancing Net Zero e in tale ambito verranno pubblicizzati a livello nazionale e internazionale

Le caratteristiche dei progetti candidati devono includere:
- bassissimi consumi di energia
- il 100% di approvvigionamento di energia termica ed elettrica da fonte rinnovabile
- possibilmente deve essere un edificio certificato o in corso di certificazione (NZEB, Passive House, Active House, GBC HOME, Casa Clima, ...)

Per candidare un edificio scrivi a: internazionale@gbcitalia.org dando evidenza delle performance energetiche nella gestione dell’edificio