

Advances and Updates in Green Globes for New Construction 2021

Green Globes for New Construction (NC 2021) is the latest revision to GBI's new construction and major renovation program and is an ideal assessment and certification tool for all types of commercial buildings. Its key attributes are:

- Green Globes NC 2021 for New Construction (NC) 2021 is the implementation of a consensus-based ANSI standard (ANSI/GBI 01-2021: Green Globes Assessment Protocol for Design, New Construction, and Major Renovations) that drives innovation in sustainability, promotes a healthy and safe environment for tenants, and encourages life cycle thinking from project conception.
- The Green Globes questionnaire, delivered on a user-friendly software platform, prompts users to think critically about their projects and can be used independently to track progress or as part of an assessment in pursuit of Green Globes certification.
- Green Globes Assessors evaluate the project and provide tailored recommendations that provide project teams with choices when considering capital improvements or implementation of best practices.

Advancements in NC 2021

NC 2021 incorporates technological advances, updates to national standards, revised sections on commissioning, product sustainable attributes, alternative non-potable water sources, cooling towers, VOC paints and coatings, and acoustic comfort, and new sections on bird strikes, occupant exposure screening, and leak detection.

Content Highlights

Green Globes for New Construction	NC 2013	NC 2021
Requirements for Certification		
Achieve minimum 35% of total applicable points out of 1000 possible points.	•	•
Total Possible Points Per Assessment Area		
Project Management	50	100
Site	115	150
Energy	390	260
Water Efficiency	110	190
Materials	125	150
Emissions*	50	N/A
Indoor Environment	160	150
Content Sections & Criteria		
Carbon Dioxide Equivalent (CO ₂ e) Emissions Path for Energy Performance	•	•
ANSI/ASHRAE/IES Standard 90.1-2010 Path for Energy Performance	•	•
Prescriptive Path for Energy Performance		•
Prescriptive Energy Criteria	•	•
Sustainable/Renewable Energy	•	•
Building Commissioning	•	•
Four paths for Plumbing Fixture & Fitting Standards		•
Resilience, including Risk Assessment		•
Bird Collisions/Strikes	•	•
Whole Building Life Cycle Assessment	•	•
Sustainable Materials Attributes		•
Reuse of Structural Systems & Non-Structural Elements	•	•
Reuse of Materials from Off-Site		•
Acoustical & Thermal Comfort	•	•
Source Control of Indoor Pollutants	•	•

*Emissions criteria are re-distributed throughout all six assessment areas.

Notable ASHRAE and Other Standards Referenced	
ASHRAE Guidelines 0	2019
ASHRAE 55	2017
ASHRAE 62.1	2019
ASHRAE 90.1	2010 & 2013
ASHRAE 129	1997
ASHRAE 160	2009
ASHRAE 170	2017
ASHRAE 188	2018
ASHRAE 189.1	2014 & 2017
ASHRAE 202	2018
ASHRAE Systems Application Handbook	2019
ANSI/ASA S12.2	2019
ANSI S12.60	2010
ASABE/ICC 802	2020
ASTM E1130	2016
ASTM E1573	2018
ASTM E3182	2020
Guidelines for Design and Construction of Outpatient Facilities	2018
Guidelines for Design and Construction of Residential Health, Care, and Support Facilities	2018
Guidelines for Design and Construction of Hospitals	2018
IAPMO WESStand	2020
IAPMO Uniform Mechanical Code	2018
IAPMO Z1349	2021
IAPMO IGC 324	2019
ICC International Mechanical Code	2018
International Green Construction Code (IgCC)	2018
ISO 21930	2017
NSF/ANSI 350-1	2017
UL 2821	2013

Other Considerations

- ✓ Crosswalk available demonstrating overlap with Fitwel: Workplace: Multi-Tenant Whole Building (v2.1)

Frequently Asked Questions

Q. Is there a price difference for Green Globes NC 2021?

A. Pricing is unchanged.

Q. How long can I register projects using the original Green Globes NC before I must begin registering with Green Globes NC 2021?

A. Projects can continue to register using the original Green Globes NC, however, with the many improvements and advancements in NC 2021, we will be encouraging the use of Green Globes NC 2021 when possible.

Q. What are the three Paths for Assessing Energy Performance in Green Globes NC 2021?

A. Three paths are provided for assessing energy performance in Green Globes NC 2021. The NC 2021 energy paths are as follows:

- Path A: Performance - ANSI/ASHRAE/IES Standard 90.1-2010, Appendix G - up to 180 points
- Path B: Performance - Building Carbon Dioxide Equivalent (CO₂e) Emissions - up to 180 points
- Path C: Prescriptive - up to 111 points

Q. What are the four Paths for Plumbing Fixture and Fitting Standards in Green Globes NC 2021?

A. Four paths are provided for assessing plumbing fixtures and fittings in Green Globes NC 2021:

- Path A: ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, Section 6.3.2.1 - up to 52 points
- Path B: 2018 International Green Construction Code (IgCC), Table 601.3.2.1 - up to 52 points
- Path C: 2020 IAPMO WEstand Section 402 - up to 52 points
- Path D: Major Renovations - up to 45 points

Q. What does the expanded section on resilience in Green Globes NC 2021 evaluate?

A. Green Globes NC 2021 awards projects for performing risk assessments for current and future risks or hazards. There are also criteria on emergency response procedures that includes an Emergency Preparedness Plan, as well as criteria on an assessment to rapidly recover various building functions.

Q. Does Green Globes NC 2021 assess criteria that is relevant for pandemics or infectious disease?

A. To reduce the spread of infectious disease, Green Globes NC 2021 includes criteria on air handling equipment and filtration, as well as criteria on employing an Industrial Hygienist, Occupational Health and Safety Professional, or Infection Control Preventionist during the Integrated Design Process.

Q. Will there be special recognition for projects that achieve certification using Green Globes NC 2021?

A. Yes, the first 25 projects that complete certification using Green Globes NC 2021 will be offered the opportunity for a plaque presentation and photo opportunity with GBI's President & CEO, Vicki Worden, or another member of GBI's leadership.

Q. How do I submit proposals for change on the ANSI/GBI 01-2021 (Green Globes NC 2021) Standard?

- A.** The NC 2021 Standard is under Continuous Maintenance and comments are accepted at any time. To view the NC 2021 Standard, schedule for Continuous Maintenance, or to submit a comment, visit <https://www.thegbi.org/ansi>.