

INSULATION RETROFITS

GREEN CODE UPDATE

Helping Facilities Professionals Make Smarter Decisions

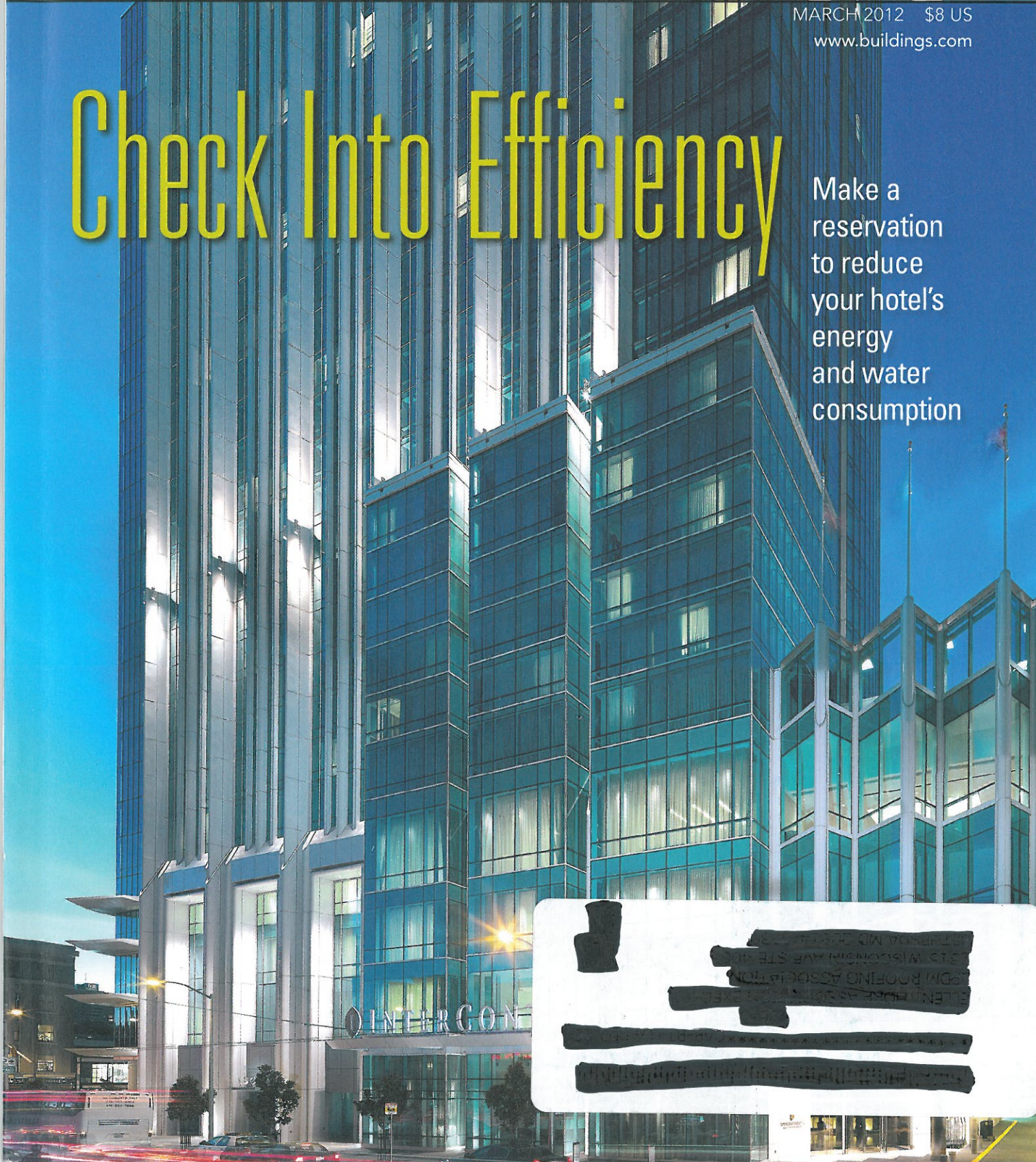
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OUTLINE OF GREEN CODES AND STANDARDS

ASHRAE Standard 90.1

ANSI/ASHRAE/IES Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings is an American National Standard developed by ASHRAE and jointly sponsored by the Illuminating Engineering Society (IES). It provides minimum requirements for energy-efficient commercial buildings, but does not cover low-rise residential buildings. Like the IECC, *Standard 90.1* applies to new buildings and to additions, alterations, renovations, or repairs to existing buildings. It addresses building envelopes, HVAC, lighting, water heating, and power usage for appliances and building systems.

ASHRAE Standard 189.1

ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance Green Buildings is an American National Standard developed by ASHRAE and co-sponsored by IES and USGBC. The standard provides minimum requirements for high-performance green commercial buildings, but like *Standard 90.1*, it does not cover low-rise residential buildings. *Standard 189.1* provides minimum criteria applying to new buildings and their sys-

tems, new portions of buildings and their systems, and new systems and equipment in existing buildings. It addresses site sustainability, water and energy efficiency, renewable energy systems, indoor environmental quality (IEQ), and impact on the atmosphere, materials, and resources.

International Energy Conservation Code (IECC)

Developed by the International Code Council, the IECC is a model code that regulates minimum requirements for design and construction. It contains separate provisions for commercial and low-rise residential buildings, and applies to new buildings as well as to additions, alterations, renovations, or repairs to existing buildings. The IECC addresses building envelopes, HVAC, lighting, water heating, and power usage for appliances and building systems.

International Green Construction Code (IGCC)

The IGCC is developed by the International Code Council and its partners, the American Institute of Architects and the American Society for Testing and Materials International. It is a model green build-

ing code, with *ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance Green Buildings* as an alternate path of compliance. The IGCC provides a vehicle for the regulation of green building design, construction, and performance in new and renovated buildings in a manner that is integrated with existing codes.

The code includes requirements from both the IGCC and *Standard 189.1* and contains criteria for water use efficiency, indoor environmental quality, energy efficiency, renewable energy systems, materials and resource use, and the building's impact on its site and community.

National Green Building Standard (NGBS)

ANSI/ICC Standard 700, National Green Building Standard is an American National Standard developed by the ICC and the National Association of Homebuilders. *Standard 700* contains provisions for green practices that can be incorporated into hotels and motels, high-rise multifamily buildings, single-family homes and home sites, and home remodeling and additions.