

Making the Connection: *How New Construction Programs Can Benefit from the ABG and LEED Programs*

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Overview

- Definitions & Status
 - ABG
 - LEED
- Jeff Johnson
 - Making the Connection between the ABG and LEED*
- Michael McAteer
 - Ideas on how the ABG might be incorporated into National Grid's new construction program*
- Discussion



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Advance Building Guidelines (ABG)



- Developed by the New Buildings Institute
- The Guidelines are intended to define “Best Practices” for use in designing, constructing and operating commercial buildings to exceed national model codes.
- Work is funded by a group of energy efficiency organizations



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ABG



- Measurable energy efficiency targets beyond ASHRAE 90.1
 - Tier 1 20-30% greater savings
 - Tier 2 50% greater savings
- Approaches:
 - Prescriptive (bundle of measures)
 - Performance base or modeling



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ABG Tools Under Development

- **Criteria-**
the technical specs for meeting energy targets
- **Planning Guides-**
Describe to building owners -by market sector- the benefits (energy & non energy) to meeting the guidelines
- **Design Guidelines-**
resource for A&E and contractors for incorporating technologies, process and best practices into project.



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ABG Status

- **Criteria**
Will be completed by June
- **Design and Planning Guide**
Markets being determined
Additional funders being sought
Expected to be completed by End of Year
- **CEE's Role-** Work with CEE members to identify strategies to incorporate ABG into existing new construction programs



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- The LEED (Leadership in Energy and Environmental Design) Green Building Rating System™ is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings
- Developed by U.S. Green Buildings Council



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LEED

- Point System (total 69)
- Covers more than energy

Site	14
Water	5
Energy & Atmos.	17
Materials	13
Indoor Env. Quality	15
Innov. & Design	5
- Largest # of points is for Energy & Atmosphere
- Requires documentation & certification
- Different levels of achievement (silver, gold...)



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LEED is Gaining Traction

Considering LEED	Encouraging (not requiring) LEED	Requires LEED
MA CA Washington (state proj.) Kansas City, MO NY, NY	DOE DOI (Dept of Interior) EPA Dept. of State Air Force, Army & Navy NY NJ (schools) Arlington VA (LEED Silver build higher density) Frisco, TX	GSA PA (DEP & DGS proj.) Austin, TX Boulder, Co King County, WA Los Angeles, CA Portland, OR Dan Diego, CA San Jose, CA San Mateo, CA Seattle, WA



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