

Green Building Standards

GUIDANCE FOR POTENTIAL ERG AND GROW NJ APPLICANTS

NJEDA

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Green Building Standards Guidance for Potential ERG and Grow NJ Applicants (Updated 11/16)

The below information is intended to be plain language guidance as to the process NJEDA uses to evaluate compliance with green building standards. For specific questions regarding this process or for more information on specific green building requirements for your project, please contact Rob Wisniewski – Sr. Construction Officer-Green Building, rwisniewski@njeda.com or (609) 858-6768.

Background

The enabling acts establishing the Economic Redevelopment and Growth (ERG) and Grow NJ Programs require any applicant seeking incentive grants for redevelopment projects under these programs to certify that the project was designed and built to green building standards.

Given the fact that ERG and Grow NJ were expanded under the N.J. Economic Opportunity Act of 2013 to allow for a greater degree of variation in the projects that are eligible for these incentives, NJEDA has established a flexible menu of options that applies the best practice principles of the NJ Green Buildings Manual to the applicant's specific type of project.

Potential applicants should understand going into the application process that these standards exist and, depending on the scope of the project, compliance with green building standards can impact overall project cost. **Therefore, it may be in the applicant's best interest to review this information with a design professional as early in the process as possible for guidance as to how the requirements will impact overall project cost and implementation.**

Identifying a Project Type

Given that green building standards differ depending on the scope of the project, during the application stage, the applicant will be asked to identify the specific project type (see below) that best applies and which will drive capital investment costs. Please note that NJEDA staff will not recommend any project for NJEDA Board approval until a project type has been clearly identified on the program application.

The **project classification types** are as follows:

Type 1:

Construction consisting of 50% or more of the building's value and/or square footage

- **New Construction**
- **Reconstruction** – Commonly referred to as a “gut rehab” this includes extensive work involving the interior of a building, floor or tenant space to the degree that the work area cannot be occupied while the work is in progress, and where a new certificate of occupancy is required before the work area can be reoccupied. This does not include projects comprised only of floor finish replacement, painting, wall-papering, or the replacement of equipment or furnishings.

Type 2:

Construction consisting of 50% or less of the building's value and/or square footage

- **Renovation** – Work that is generally restorative in nature and involves the use of different materials. Examples include: replacement of interior finish, trim, doors, or equipment. Renovation does not involve the reconfiguration of space. Renovation also includes the replacement of equipment or fixtures.
- **Alteration** – Work that involves a change in layout of interior space while other portions of the space remain without rearrangement. For example, the rearrangement of any space by the construction of walls or partitions, the addition or elimination of any door or window, the extension or rearrangement of any system, the installation of any equipment or fixtures, or any work which affects a primary structural component.

For projects scopes considered “equipment only,” project teams must submit a letter signed by CEO (or equivalent) along with a project narrative and schedule of values clarifying the scope of work for the project to be reviewed for exemption from the green building standards stipulated above.

Basic Application of Standards

For all Type 1 Projects: Table 1: Applicable Standards for Type 1 New Construction/Major Reconstruction Project

For all Type 2 Projects: Table 2: Minimum Required Standards for Type 2 Renovation/Alteration Project

NJEDA will review for green building compliance at two (2) stages for every project; Pre-Development and Post-Construction.

Submitting for a Pre-Development Review

Upon Incentive application approval, EDA will require that a project’s specific green building plan be submitted the sooner of six (6) months following application approval (when the first project update is due,) or upon the applicant’s request for a grant agreement. **However, the plan must be submitted no later than the end of “Schematic Design” so green building elements can be incorporated into the design appropriately.** The plan is to be submitted via email to Rob Wisniewski at rwisniewski@njeda.com with the name of the project in the subject line. The email should include the following information:

- NJEDA P #:
- Classification as described above (i.e.: New Construction, Reconstruction, Renovation or Alteration):
- Pre-Development or Post-Construction Review:
- Technical Contact Info (Owner, Architect/Engineer):
- Project Location(s):

All green building plans should include the following components:

1. A letter from the Applicant (on letterhead) outlining the project size and scope, plus a commitment to their specific standards based on project classification.
2. A signed and sealed letter (please rub lead on the seal so it’s visible when scanning) from a licensed design professional outlining the scope of work for the project including the following:
 - a. Type of project (New Construction, Reconstruction, Renovation or Alteration as described above) with square footage of the project (and how the project relates to the overall building size – if applicable).
 - b. Identify which approved path of green building compliance the applicant is proposing (i.e., LEED Silver or % better than ASHRAE 90.1).
3. The compliance documentation identified in the chart(s) below.

The submission of this green building plan along with the backup documentation identified in the chart below will start the Pre-Development Review process.

During this Pre-Development Review, EDA will evaluate the project specific green building plan for compliance with the referenced standards applicable to that specific project type. EDA will then either approve the plan, or advise applicants as to the most applicable plan amendments to satisfactorily meet the standards. Should an applicant request a “preliminary” Pre-Development approval, a letter would be required from the applicant (on letterhead) clearly identifying a commitment to an approved metric in which the project’s performance shall be measured against. Once the required documentation demonstrating compliance with the identified metric (i.e., an energy model or COMcheck calculations) is available and ready for review, the applicant can submit for “final” Pre-Development Review. Once all submissions have been reviewed and approved, a project will receive an approved review letter clearly stating that project has met the pre-development green building requirements of the program.

Project design documents should not be finalized by the applicant until EDA has reviewed and approved the green building pre-development plan.

EDA’s Green Building staff are available at this stage to review the green building pre-development plan. However, applicants are advised to channel questions and information through their design professional charged with planning and executing the plan.

Submitting for a Post-Construction Review for Final Certification

Once EDA approves the green building pre-development plan, **the applicant will be expected to execute the plan as approved.** To ensure the plan was executed as approved, EDA will minimally require a signed and sealed letter from the licensed design professional certifying that the as-built project meets the specifications of the approved plan and all green building measures identified are actually installed/implemented. Additional required documentation will be outlined in the approval letter based on predevelopment submission. Refer to the chart below for requirements for each measure.

Table 1: Applicable Standards for Type 1 New Construction/Major Reconstruction Projects

| Category | Project Type | Standard | Acceptable Measure | Pre-Development Review in addition to Green Building Plan | Proof of Compliance for Post-Construction Review |
|------------|------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Commercial | New Construction or Reconstruction | U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) | Minimum Silver for all USGBC-LEED rating systems | LEED Scorecard identifying at least 50 points and proof of project registration from GBCI. If project will not be registered and pursue actual certification, the applicant should clearly identify this approach in the green building plan. | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan and final LEED scorecard OR final LEED scorecard and award certificate indicating a minimum of Silver level. Should the project not actually receive certification but complied with all of the prerequisites and implemented green building strategies equivalent to at least 50 points, the applicant should submit compliance documentation with such prerequisites and credits just as the team would have been uploaded to LEED. |
| Commercial | New Construction or Reconstruction | American Society of Heating, Refrigerating and Air-Conditioning Engineers | 5% (commercial) or 15% (multi-family) above ASHRAE 90.1-2013 | Signed and sealed energy model results clearly identifying efficiency percentage over the referenced standard | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan |

| Category | Project Type | Standard | Acceptable Measure | Pre-Development Review in addition to Green Building Plan | Proof of Compliance for Post-Construction Review |
|-----------------|------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Commercial | New Construction or Reconstruction | New Jersey Board of Public Utilities Pay for Performance | New Jersey BPU Pay for Performance. Minimum 5% above ASHRAE 90.1-2013. | New Jersey Board of Public Utilities Pay for Performance Application and/or Energy Reduction Plan (ERP) from an approved Pay for Performance Provider. If project will not actually participate in the P4P Program, the applicant should clearly identify this approach in the green building plan along with P4P formatted ERP. | New Jersey Board of Public Utilities Pay for Performance Application. Should the project not actually submit for P4P, the applicant shall submit a signed/sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |
| Commercial | New Construction or Reconstruction | American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) | Standard 189.1-2014 | Energy model and Identification of Mandatory Provisions | Proof of compliance with the mandatory provisions. Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |
| Commercial | New Construction or Reconstruction | International Green Construction Code (IGCC) - 2015 | Choose minimum of 15 electives from the Jurisdictional and/or Project Electives | Energy Model and Completed IGCC Table 302.1 and/or Table A103.2 | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |

| Category | Project Type | Standard | Acceptable Measure | Pre-Development Review in addition to Green Building Plan | Proof of Compliance for Post-Construction Review |
|---------------------------|-------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Residential/ Mixed Use | New Construction/ Reconstruction | LEED, Home Energy Rating System (HERS), and/or EPA Energy Star | Development projects can pursue LEED ND (Silver) or choose an identified EPA Green Building Standards Guidance compliance path for individual buildings within a development project. Residential projects (single or multifamily) within a mixed use project, HERS 75 or less. If more than 50 percent of the project is residential, than utilize Energy Star Homes or Energy Star Multifamily, otherwise utilize Energy Star Commercial score of 75 or better | <p>LEED: Scorecard identifying at least 50 points and proof of project registration from GBCI. If project will not be registered and pursue actual certification, the applicant should clearly identify this approach in the green building plan.</p> <p>AND/OR</p> <p>HERS: Letter from RESNET provider confirming eligibility and engagement</p> <p>AND/OR</p> <p>EPA: Screen shot of Portfolio Manager with project's status</p> | <p>LEED: Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan and final LEED scorecard OR final LEED scorecard and award certificate indicating a minimum of Silver level. Should the project not actually submit for actual certification but complied with all of the prerequisites and implemented green building strategies equivalent to at least 50 points, the applicant should submit compliance documentation with such prerequisites and credits just as would have been uploaded to LEED Online.</p> <p>AND/OR</p> <p>HERS: Certificate</p> <p>AND/OR</p> <p>EPA: Energy Star Certificate</p> |

| Category | Project Type | Standard | Acceptable Measure | Pre-Development Review in addition to Green Building Plan | Proof of Compliance for Post-Construction Review |
|----------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Commercial/ Residential | New Construction or Reconstruction | International Living Future Institute | Net Zero Building Energy Certification | Proof of registration | Net Zero Building Energy Certification |
| Residential | New Construction or Reconstruction | NJ Housing and Mortgage Finance Authority (NJ-HMFA) and NJ Department of Community Affairs (NJ-DCA) | Residential projects that are utilizing affordable housing subsidies offered by NJ-HMFA and NJ-DCA are already required to conform to green building standards which meet the statutory requirement. | NJ Housing and Mortgage Finance Authority (NJ-HMFA) and NJ Department of Community Affairs (NJ-DCA) projects follow a separate and individual process outside of the green building standards review | HMFA final green building approval |
| Residential/Mixed Use | New Construction or Reconstruction | National Green Building Standard | National Green Building Standard | Proof of registration and NGBS Green Scoring Spreadsheet | NGBS Green certificate or the checklist |
| Residential | New Construction or Reconstruction | Passive House Institute US | Passive House Institute US Certification | Proof of registration | Passive House Institute US Certification |

Guidance for Type 2 Projects

Table 2 below outlines the minimum green building requirements for all Type 2 projects considered an Alteration or Renovation, that are less than 50% of the building's value and/or square footage and fitting the project type criteria. These requirements are intended to give clear guidance to program participants, provide a consistent level of expectation throughout varying project types and reduce complications during the compliance review process. As noted in submission section, project teams must submit a construction budget & scope of work narrative outlining the minimum proposed standards and any additional green measures the project intends to pursue that address, but not limited to, the following areas of sustainability:

- Energy & Water Efficiency
- Indoor Air Quality Management
- Fundamental Commissioning
- Construction & Demolition Waste Management
- Occupancy Sensors
- Daylighting
- Innovative Measures

NOTES

1. Because of the variability in scope of work for each approved TYPE 2 project, not every category outlined below will/may be incorporated into every project. However, if the scope of work addresses one, any or all of the categories listed in Table 2, project must adhere to the required measure.
2. LEED-CI Minimum Silver Certification will fulfill all prerequisites and requirements for TYPE 2 green building program approval

Table 2: Minimum Required Standards for Type 2 Renovation/Alteration Project

| Category | Project Type | Standard | Acceptable Measure | Pre-Development Review in addition to Green Building Plan | Proof of Compliance for Post-Construction Review |
|-------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Energy Efficiency | Newly installed lighting improvements including fixtures, ballasts and/or other electrical equipment | American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) | Minimum 5 percent energy improvement over ASHRAE 90.1-2013 | COM Check or energy model signed & sealed by project design professional | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |
| Energy Efficiency | Newly installed heating, ventilation, air conditioning & water heating equipment | American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) | Minimum 5 percent energy improvement over ASHRAE 90.1-2013 | COM Check or energy model signed & sealed by project design professional | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |
| Energy Efficiency | Appliance | EPA Energy Star | Energy Star Labeled | Spec Sheet highlighting compliance | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |

| Category | Project Type | Standard | Acceptable Measure | Pre-Development Submission | Proof of Compliance for Post Construction Review |
|------------------------|------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Efficiency | Toilets | 1.6 Gallons per flush | In aggregate, 20% better than baseline standard | LEED v4 Indoor Water Use Reduction Calculator | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |
| | Urinals | 1.0 gpf | | | |
| | Public Lavatory Faucet | 2.2. gpm@60psi | | | |
| | Kitchen Faucet | 2.2 gpm@60psi | | | |
| Low Emitting Materials | Interior Wet Applied Paints | VOC Content Requirements for Wet Applied Products | Must meet the applicable VOC limits of the California Air Resources Board (CARB) 2007 | Spec Sheets highlighting compliance | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |
| Low Emitting Materials | Interior Adhesives/ Sealants | VOC Content Requirements for Wet Applied Products | Must meet the applicable chemical content requirements of SCAQMD Rule 1168, July 1, 2005, Adhesive and Sealant Applications | Spec Sheet highlighting compliance | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |
| Low Emitting Materials | Carpet Flooring | VOC Content requirements | CRI Green Label Plus | Spec Sheets highlighting compliance | Signed and sealed letter from the licensed design professional indicating construction is complete and in accordance with the approved green building plan. |