



## APPENDIX E

# ENERGY PERFORMANCE CERTIFICATION

### REQUIRED:

- **Residential Projects (<4 stories)** – Energy Rater submits Home Energy Rating System (HERS) certificate, Code Certificate, and signs certification below for submittal by project applicant/recipient.
- **Commercial or Residential Projects >3 stories** – Energy Rater/Energy Professional/Commissioning Agent submits Code Certificate and energy modeling information and completes and signs certification below for submittal by project applicant/recipient.

The project's independent, third-party energy rater or energy professional for non-residential projects is required to sign the certification below at time of construction completion. By signing this certification, the Energy Rater is certifying that the project, as constructed, complies with all of the MANDATORY Iowa Green Streets Criteria energy related criteria applicable to the project as determined by IEDA including the following criteria.

- **5.1a, Building Performance Standard – New Construction: Single Family and Multifamily**
  - Energy performance requirements in Air Barrier and Insulation Inspection Component Guide and Energy Performance Table in Criterion 5-1 were met or project achieved Energy Star certification.
  - HERS Index of 61 or better (HERS  $\leq$  56 required for disaster recovery housing projects).
  - All equipment installed, met or exceeded the minimum performance requirements in the energy performance table in Criterion 5-1.
- **5.1b, Building Performance Standard – Rehab Single Family and Multifamily**
  - Applicable energy performance requirements in Air Barrier and Insulation Inspection Component Guide and Energy Performance Table in Criterion 5-1 were met or project achieved Energy Star certification.
  - Air infiltration rate of  $\leq$  0.30 CFM50 for Substantial Rehab and  $\leq$  0.40 CFM50 for Moderate Rehab per square feet of dwelling unit enclosure area was achieved.
  - Insulation installed as part of the rehab achieved Grade I installation per ANSI/RESNET/ICC Std. 301 or Grade II cavity insulation for assemblies that contain a layer of continuous, air impermeable insulation  $\geq$  R-5.
  - Completed and passed current version of ENERGY STAR Certified Homes or MFNC HVAC System Quality Installation Contractor Checklist and ENERGY STAR Certified Homes HVAC System Quality Installation Rater Checklist.
  - HERS Index of 85 or better achieved (See exceptions in Criterion 5.1).
- **5.1c, Building Performance Standard – New Construction: Commercial, Nonprofit, Mixed-Use**
  - Applicable energy performance requirements in Air Barrier and Insulation Inspection Component Guide and Energy Performance Table in Criterion 5-1 were met.
  - Slab insulation and pre-drywall thermal bypass inspection passed by a third-party energy rater or commissioning agent.
  - Energy performance requirement to exceed by  $\geq$  10% the current version of ASHRAE 90.1 as coordinated with the adopted edition of the IECC for the State of Iowa was achieved.
  - Building was commissioned by a third-party and the commissioning report submitted to IEDA.
  - Completed and submitted the required Energy Review Form (only projects > 100,000 cu. Ft.)



- **5.1d, Building Performance Standard – Rehab: Commercial, Nonprofit, Mixed-Use**
  - Applicable energy performance requirements in Air Barrier and Insulation Inspection Component Guide and Energy Performance Table for Criterion 5-1 were met.
  - Slab insulation and pre-drywall thermal bypass inspection passed by a third-party energy rater or commissioning agent.
  - Energy performance of Substantial Rehab project met or exceeded by  $\geq 10\%$  the current version of ASHRAE 90.1 as coordinated with the adopted edition of the IECC for the State of Iowa was achieved. Submitted to IEDA modeling information verifying exceeding by 10% the current version of ASHRAE 90.1 as coordinated with the adopted edition of the IECC for the State of Iowa.
  - Energy performance of Moderate Rehab project met or exceeded the current version of ASHRAE 90.1 as coordinated with the adopted edition of the IECC for the State of Iowa was achieved. Submitted to IEDA modeling information verifying meeting the current version of ASHRAE 90.1 as coordinated with the adopted edition of the IECC for the State of Iowa.
  - Building was commissioned by a third-party and the commissioning report submitted to IEDA.
  - Completed and submitted the required Energy Review Form (only projects > 100,000 cu. Ft.)
- **5.2a, Moving to Zero Energy: Additional Reductions in Energy Use**
  - Any additional reductions in energy use claimed in project application were achieved.
- **5.3, HVAC Sizing, Installation and Duct Systems**
  - Residential Projects: Heating and cooling equipment sized in accordance with the Air Conditioning Contractors of America (ACCA) Manual, Parts D, J and S
  - Commercial Projects: ASHRAE handbooks, or equivalent software
- **5.4, ENERGY STAR Appliances (if providing appliances)**
  - ENERGY STAR appliances were used throughout the project.
- **5.5, Lighting**
  - Lighting requirements of criterion 5.8 were met.
- **7.3 Combustion Equipment**
  - Power vented or direct-vent combustion appliance were utilized and combustion safety test completed for equipment not replaced.

To be Completed by Energy Rater/Energy Professional	
Signature:	
Name:	
Title:	
Tel. No.:	
E-mail:	
Accreditation: (license/licensing body)	
Date:	

A fillable PDF version of this form is available here:  
[iowaeconomicdevelopment.com/userdocs/programs/AppxE-EnergyPerformanceCertificationForm.pdf](http://iowaeconomicdevelopment.com/userdocs/programs/AppxE-EnergyPerformanceCertificationForm.pdf)