

Future Ready Homes!

Residential New Construction Program

Cedar Falls Utilities (CFU) offers a residential new construction program designed to encourage homeowners and home builders to construct new homes that are highly efficient, healthy, comfortable, and well prepared for the life of the building.

✓ Lower Utility Bills

✓ Increased Comfort

✓ ~~\$3,000 incentive~~ \$5,000 incentive!!!

Eligibility

- Residential new construction that will receive all energy and communication utilities from CFU.
- The building must pass all required inspections.
- All criteria on the Prescriptive Checklist or HERS Checklist must be met. Only one of the two checklist options may be used (no mixing lists).

Recommended steps:

1. Preliminary meeting between homeowner, builder, and applicable subcontractors to discuss listed rebate criteria.
2. Choose a checklist to follow: 1) Prescriptive or 2) HERS.
 - ALL checklist requirements must be met.
 - If opting for HERS, find and hire a certified HERS rating professional.
3. After the building has passed final occupancy inspection by the Cedar Falls Building Inspections Department, submit the completed application form and all required documentation to energyservices@cfunet.net.
4. Upon receipt of a completed application, CFU will reach out to schedule a rebate inspection.
5. **The incentive will be awarded to the home builder.**

IMPORTANT

There are significant similarities between the CFU Future Ready Home rebate criteria and other available programs such as [Energy Star](#) and the [Department of Energy Zero Energy Ready Home](#) program. CFU encourages homeowners, builders, and applicable subcontractors to explore achieving all available designations and incentives possible.



Future Ready Home (Residential New Construction) 2023 Rebate Application

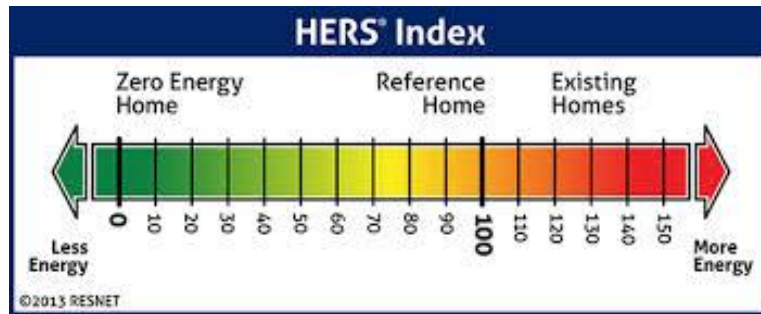
Prescriptive Checklist

COMPONENT	REQUIREMENTS
HVAC SYSTEM DESIGN & SIZING	<input type="checkbox"/> Completed ACCA HVAC Plan Review Form and supporting documents. ACCA Approved Software
HEATING EQUIPMENT	<input type="checkbox"/> NG Furnace: ≥ 95% AFUE, ASHP: ≥ 8.1 HSPF2, GSHP: ≥ 16 EER & ≥ 3.5 COP AHRI Ref. No.: _____ Serial No.: _____
COOLING EQUIPMENT	<input type="checkbox"/> A/C: ≥16 SEER2 ASHP: ≥ 15.2 SEER2 & ≥ 10 EER2, GSHP: ≥ 16 EER & ≥ 3.5 COP AHRI Ref. No.: _____ Serial No.: _____
WI-FI ENABLED SMART THERMOSTAT	<input type="checkbox"/> Wi-Fi connectivity capabilities. Make: _____ Model: _____
AIR HANDLER FILTER SIZE	<input type="checkbox"/> Filter: ≥ 5" in thickness
SUPPLY & RETURN PLENUM	<input type="checkbox"/> No 90° angles on supply/return plenums. Rounded/flared transitions, 45° elbows, or duct turning vanes w/ viewport.
WATER HEATING	<input type="checkbox"/> Energy Star certified water heater AHRI Ref. No.: _____ Serial No.: _____
LIGHTING	<input type="checkbox"/> 100% LED
BUILDING AIR LEAKAGE	<input type="checkbox"/> ≤ 2.5 ACH50 or ≤ 0.20 CFM50/SF
CONSTRUCTION, FENESTRATION, & THERMAL ENVELOPE (RESHECK)	<input type="checkbox"/> REScheck document completed with result ≥5% better than code maximum. REScheck can be completed at https://www.energycodes.gov/rescheck Wall assembly suggestions to achieve compliance: <ul style="list-style-type: none"> 2X6 ccsf, ocsf, BIBS 2X4 ccsf, ocsf, + R-3 c.i. 2X4 BIBS + R-5 c.i. SIPs or ICF Insulated sheathing (ZIP System Insulated R-Sheathing®, etc.)
INTERNET CONNECTIVITY READY	<input type="checkbox"/> A) Conduit from exterior electric meter location to interior electric service panel location present and is minimum of ¾" inside diameter. <input type="checkbox"/> B) At least one CAT-6A ethernet connection from electrical panel to all rooms; excluding bathroom/storage/closet.
EV CHARGING READY	<input type="checkbox"/> Panel capacity with GFCI breaker, conduit, & wiring for at least one 240V, ≥ 30A outlet or junction box in garage.



Future Ready Home (Residential New Construction) 2023 Rebate Application

HERS Checklist



Working with a RESNET certified HERS rater during the preliminary, planning phase and utilizing pre-construction modeling can assist in ensuring the new home will achieve the desired [HERS score](#).

COMPONENT	REQUIREMENTS
HERS DOCUMENTATION PROVIDED TO CFU BY RESNET CERTIFIED HERS RATER	<input type="checkbox"/> HERS score ≤ 44
HVAC SYSTEM DESIGN & SIZING	<input type="checkbox"/> Completed ACCA HVAC Plan Review Form and supporting documents. ACCA Approved Software
WI-FI ENABLED SMART THERMOSTAT	<input type="checkbox"/> Wi-Fi connectivity capabilities. Make: _____ Model: _____
AIR HANDLER FILTER SIZE	<input type="checkbox"/> Filter: ≥ 5" in thickness
SUPPLY & RETURN PLENUM	<input type="checkbox"/> No 90° angles on supply/return plenums. Rounded/flared transitions, 45° elbows, or duct turning vanes w/ viewport.
INTERNET CONNECTIVITY READY	<input type="checkbox"/> A) Conduit from exterior electric meter location to interior electric service panel location present and is minimum of ¾" inside diameter. <input type="checkbox"/> B) At least one CAT-6A ethernet connection from electrical panel to all rooms; excluding bathroom/storage/closet.
CONSTRUCTION, FENESTRATION, & THERMAL ENVELOPE (RESCHECK)	<input type="checkbox"/> Building components must meet 2021 IECC table R402.1.3 prescriptive minimum requirements . Verified via physical inspection, photos, and HERS modeling software inputs.
EV CHARGING READY	<input type="checkbox"/> Panel capacity with GFCI breaker, conduit, & wiring for at least one 240V, ≥ 30A outlet or junction box in garage.



Future Ready Home (Residential New Construction) 2023 Rebate Application

New Home Address: _____ Date of Final Inspection (CFU): _____

Rebate Check Delivery:

CFU will award the incentive to the home builder.

Issue rebate check to (Name): _____

Mailing Address: _____

I agree to [Terms and Conditions](#) (last page)

Builder Name: _____

Builder Signature: _____



General Terms and Conditions

1 Applicant Certification:

- 1.1 The applicant agrees that the stated energy efficiency measure(s) is (are) installed and in operation at the address listed in the application, and that the information contained in this application is accurate and complete.
- 1.2 I have read and agree to the Terms & Conditions of this application (General and Specific).
- 1.3 I agree to indemnify, defend, hold harmless and release Cedar Falls Utilities (CFU) from any claims, damages, liabilities, costs and expenses (including reasonable attorneys' fees) arising from or relating to the removal, disposal, installation or operation of any equipment or related materials in connection with the programs described in this application, including any incidental, special or consequential damages.
- 1.4 Cedar Falls Utilities:
 - 1.4.1 does not endorse any provider, manufacturer, product, labor or system design by offering this program;
 - 1.4.2 is not responsible for any tax liability arising from customer's receipt of a rebate payment;
 - 1.4.3 is not responsible for negotiating contractor pricing or expediting contractor work;
 - 1.4.4 does not expressly or implicitly warrant the performance of installed equipment or contractor's quality of work (contact your contractor or vendor for warranty information);
 - 1.4.5 is not responsible for the proper disposal/recycling of any waste generated by this project;
 - 1.4.6 is not liable for any incidental or consequential damages caused by the installation of the equipment or for any damage caused by malfunction of the installed equipment;
 - 1.4.7 does not guarantee that a specific level of energy or cost savings will result from the implementation of energy efficiency measures or the use of products funded under this program;
 - 1.4.8 may modify or end any cash rebate program at any time without notice. Incentives are available on a first-come, first-served basis. Neither preapproval of a project, nor any other action by CFU, entitles applicant to a rebate payment until and unless this application is approved by CFU. Submitting a completed application does not guarantee receipt of a rebate from CFU.

2 Project Eligibility:

- 2.1 Projects may only apply for rebate programs available during the calendar year that the project was completed.
- 2.2 Applicant must be a CFU customer for the primary energy source (electricity or natural gas) saved by the product for which a rebate is being applied for.
- 2.3 Projects must comply with all applicable federal, state, and local codes, standards, and regulatory requirements.
- 2.4 To evaluate your application, CFU will use the rules listed on the application form that was posted at www.cfu.net on the day CFU receives your application.
- 2.5 All equipment must be new; used or rebuilt equipment is not eligible.
- 2.6 Existing equipment must be removed and may not be resold.

3 CFU Rebate Processing and Application Deadline:

- 3.1 An application must be submitted by January 31 of the year following the calendar year the project was completed.
- 3.2 Allow two to eight weeks for application review and funding of approved rebates.
- 3.3 Incomplete applications may be delayed or rejected.
- 3.4 CFU reserves the rights to:
 - 3.4.1 award rebates in the form of utility bill credits or directly mailed checks;
 - 3.4.2 verify invoices and proof of payments with financial institutions;
 - 3.4.3 notify you of rebate status via text message or email;
 - 3.4.4 require invoices that separately itemize the cost for each equipment type.
- 3.5 In no event will rebate awarded exceed 60% of the total project cost. Total project cost is the total of equipment and labor costs necessary to complete installation. Other limits may apply.

4 Inspection:

- 4.1 Rebates that require inspections must pass required inspections before a rebate will be issued. Specific requirements and instructions are listed on rebate applications.

5 Verification & Publicity:

- 5.1 CFU reserves the right to inspect and verify the installation or conduct additional tests; ask you to complete a customer survey; and/or meter the specified equipment or process, at no cost to the customer, in order to determine the actual energy saved for up to 12 months after the installation.
- 5.2 CFU may publicize your participation in this program unless you request otherwise in writing.
- 5.3 Rebate application information may be shared with state agencies or departments.



Residential Plans Examiner Review Form For HVAC System Design (Loads, Equipment, Ducts)

Form
RPER 2.0

County, Town, Municipality, Jurisdiction - Header Information

Contractor _____

Mechanical License # _____

Building Plan # _____

Home Address (Street or Lot #, Block, Subdivision) _____

Applicable Attachments

Manual J1 Form and Worksheet A: Yes No
 OEM performance data (heating, cooling, blower): Yes No
 Duct distribution sketch Yes No
 IRC Table R301.2 (climatic & geographic design criteria) Yes No

HVAC LOAD CALCULATION (IRCM1401.3)

Manual J Design Criteria and Loads

Location

Elevation _____ ft
 Altitude Correction Factor _____ ACF
 Latitude _____ ° N

Summer Design Conditions

Outdoor Cooling Temp _____ °F
 Indoor Cooling Temp _____ °F
 Cooling Temp Diff _____ °F
 Indoor Summer Design RH _____ %
 Coincident Wet Bulb Temp _____ °F

Manual J Loads

Total Heat Loss _____ Btu
 Sensible Heat Gain _____ Btu
 Latent Heat Gain _____ Btu
 Total Heat Gain _____ Btu

Winter Design Conditions

Outdoor Winter Temp _____ °F
 Indoor Winter Temp _____ °F
 Heating Temp Diff _____ °F

The heat loss / gain was calculated in accordance with ACCA Manual J? Y N

HVAC EQUIPMENT SELECTION (IRCM1401.3)

Heating Equipment

Furnace Boiler Electric Heat
 Single Stage Multi-Stage Modulating

Cooling Equipment

Air Conditioner Heat Pump
 Air-to-Air Geothermal Open Loop Geothermal Closed Loop
 Single Speed Multi-Stage Variable Speed

Model _____

Output _____ Btu Sizing Value _____ Btu
 Supplemental _____ Btu Size Limit _____ %
 Heat Load: Capacity _____ %

Model _____

Sensible _____ Btu Sizing Value _____ Btu
 Latent _____ Btu Size Limit _____ %
 Total _____ Btu Load: Capacity _____ %

Size Factor is within Manual S Size Limit? Y N

Size Factor is within Manual S Size Limit? Y N

HVAC DUCT DISTRIBUTION DESIGN (IRCM1601.1)

Design Airflow _____ Cfm Longest Supply Duct _____ Ft
 External Static Pressure (ESP) _____ IWC Longest Return Duct _____ Ft
 Component Pressure Loss (CPL) _____ IWC Total Effective Length (TEL) _____ Ft
 Available Static Pressure (ASP) _____ IWC Friction Rate _____ IWC
 ESP - CPL = ASP _____ (ASP x 100) / TEL = Friction Rate _____

Duct Materials Used

Trunk Duct: Duct Board Sheet metal
 Flex Lined Sheet metal Other
 Branch Duct: Duct Board Sheet metal
 Flex Lined Sheet metal Other

Ducts are sized per Manual D? Y N

I declare the load calculation, equipment selection, and duct system design were rigorously performed based on the building plan listed above and understand the claims made on these forms may be subject to review and verification.

Date _____

Contractor's Printed Name _____

Contractor's Signature _____



Compliance Certificate

Project REScheck Sample

Energy Code: **2012 IECC**
Location: **Cedar Falls, Iowa**
Construction Type: **Single-family**
Project Type: **New Construction**
Orientation: **Bldg. faces 180 deg. from North**
Conditioned Floor Area: **2,025 ft2**
Glazing Area: **7%**
Climate Zone: **6 (7406 HDD)**
Permit Date: **2024-01-01T06:00:00.000Z**
Permit Number: **12-3456-NEWB**
All Electric: **true**
Is Renewable: **false**
Solar Ready: **false**
Has Charger: **true**
Has Battery: **false**
Has Heat Pump: **false**
Electric Ready: **false**
Responsive Water Heating: **false**

Construction Site:
1234 A Street
Cedar Falls, IA 50613

Owner/Agent:
John Doe
Owner
1234 A Street
Cedar Falls, IA 50613
319-266-1761
energyservices@cfunet.net

Designer/Contractor:
Bart Simpson
X Construction Co
1234 B Street
Cedar Falls, IA 50613
319-266-1761
energyservices@cfunet.net

Compliance: Passes using UA trade-off

Compliance: **22.9% Better Than Code** Maximum UA: **266** Your UA: **205**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Slab-on-grade tradeoffs are no longer considered in the UA or performance compliance path in REScheck. Each slab-on-grade assembly in the specified climate zone must meet the minimum energy code insulation R-value and depth requirements.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Ceiling: Raised or Energy Truss	2,000	15.0	45.0	0.016	0.026	32	52
N Wall: Wood Frame, 24" o.c. Orientation: Unspecified	405	23.0	5.0	0.040	0.048	14	17
Sliding Patio Door: Glass Door (over 50% glazing) Orientation: Unspecified	40			0.280	0.320	11	13
Sliding Window: Vinyl Frame Orientation: Unspecified	5			0.300	0.320	2	2
E Wall: Wood Frame, 24" o.c. Orientation: Unspecified	405	23.0	5.0	0.040	0.048	15	18

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Garage Entry Door: Solid Door (under 50% glazing) Orientation: Unspecified	21			0.120	0.320	3	7
S Wall: Wood Frame, 24" o.c. Orientation: Unspecified	405	23.0	5.0	0.040	0.048	13	16
Front Door: Solid Door (under 50% glazing) Orientation: Unspecified	21			0.220	0.320	5	7
Picture Window: Vinyl Frame Orientation: Unspecified	25			0.300	0.320	8	8
Picture Window Copy: Vinyl Frame Orientation: Unspecified	25			0.300	0.320	8	8
W Wall: Wood Frame, 24" o.c. Orientation: Unspecified	405	23.0	5.0	0.040	0.048	15	18
Casement Window: Vinyl Frame Orientation: Unspecified	10			0.210	0.320	2	3
Casement Window Copy: Vinyl Frame Orientation: Unspecified	10			0.210	0.320	2	3
Rimjoists/Boxsills: Other Orientation: Unspecified	180			0.040	0.048	7	9
N Basement Wall: Insulated Concrete Forms Orientation: Unspecified Wall height: 9.0' Depth below grade: 8.0' Insulation depth: 9.0'	405		22.0	0.038	0.050	15	20
Egress Window: Vinyl Frame Orientation: Unspecified	8			0.500	0.320	4	3
E Basement Wall: Insulated Concrete Forms Orientation: Unspecified Wall height: 9.0' Depth below grade: 8.0' Insulation depth: 9.0'	405		22.0	0.038	0.050	15	20
Sliding Bsmt Window: Vinyl Frame Orientation: Unspecified	3			0.500	0.320	2	1
S Basement Wall: Insulated Concrete Forms Orientation: Unspecified Wall height: 9.0' Depth below grade: 8.0' Insulation depth: 9.0'	405		22.0	0.038	0.050	15	20
W Basement Wall: Insulated Concrete Forms Orientation: Unspecified Wall height: 9.0' Depth below grade: 8.0' Insulation depth: 9.0'	405		22.0	0.038	0.050	15	20
Sliding Bsmt Window Copy: Vinyl Frame Orientation: Unspecified	3			0.500	0.320	2	1

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2012 IECC requirements in REScheck Version : REScheck-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Bart Simpson, General Contractor

Name - Title

Bart Simpson
Signature

1-1-2024

Date