

Alternative Fuels Off-the-Grid Rubric

Criteria	Novice (1)	Apprentice (2)	Practitioner (3)	Expert (4)
FLOOR PLAN/ BLUEPRINTS	<p>Scale is clear & accurate</p> <p><u>One or two</u> of the following drawings are complete and accurate:</p> <ul style="list-style-type: none"> ● Framing <ol style="list-style-type: none"> 1. Wall dimensions 2. Square footage 3. 2-3 bedrooms 4. 1-2 bathrooms 5. Utility room 6. Laundry Room 7. Window/Door placement 8. Top, Front, Side view ● HVAC <ol style="list-style-type: none"> 1. Blue for cold 2. Red for hot ● Electrical <ol style="list-style-type: none"> 1. White for neutral 2. Black for hot ● Water/Sewage: <ol style="list-style-type: none"> 1. Blue for cold 2. Red for hot 3. Black for sewage 	<p>Scale is clear & accurate</p> <p><u>Three</u> of the following drawings are complete and accurate:</p> <ul style="list-style-type: none"> ● Framing <ol style="list-style-type: none"> 1. Wall dimensions 2. Square footage 3. 2-3 bedrooms 4. 1-2 bathrooms 5. Utility room 6. Laundry Room 7. Window/Door placement 8. Top, Front, Side view ● HVAC <ol style="list-style-type: none"> 3. Blue for cold 4. Red for hot ● Electrical <ol style="list-style-type: none"> 3. White for neutral 4. Black for hot ● Water/Sewage: <ol style="list-style-type: none"> 4. Blue for cold 5. Red for hot 6. Black for sewage 	<p>Scale is clear & accurate</p> <p><u>All</u> of the following drawings are complete and accurate:</p> <ul style="list-style-type: none"> ● Framing <ol style="list-style-type: none"> 1. Wall dimensions 2. Square footage 3. 2-3 bedrooms 4. 1-2 bathrooms 5. Utility room 6. Laundry Room 7. Window/Door placement 8. Top, Front, Side view ● HVAC <ol style="list-style-type: none"> 5. Blue for cold 6. Red for hot ● Electrical <ol style="list-style-type: none"> 5. White for neutral 6. Black for hot ● Water/Sewage: <ol style="list-style-type: none"> 7. Blue for cold 8. Red for hot 9. Black for sewage 	<p>All of the Practitioner plus either one of the following:</p> <ul style="list-style-type: none"> ● drawn using CAD program or ● color coded and drawn on architect drawing paper or ● plan submit and “approved” by Town Inspectors and/or Local Contractor

<p>Critiquing & Brainstorming, Revisions</p>	<p>The <i>Design Process</i> has been followed and shows evidence of:</p> <p>FRAMING Consideration of only <u>one</u> of the following: 1. Two to three framing style 2. The type of wood 3. The dimensions of the footprint, bathrooms, kitchen, bedrooms</p> <p>HVAC Consideration of and capacity calculations for only <u>one</u> type of HVAC system, including the furnace system</p> <p>ELECTRICAL <u>No</u> consideration is given to the type of circuit boards nor the comparison of storage versus being on the grid</p> <p>WATER & SEWAGE <u>No</u> consideration is given for the comparison of well water versus town water supply nor the types of piping</p>	<p>The <i>Design Process</i> has been followed and shows evidence of:</p> <p>FRAMING Consideration of <u>two</u> of the following: 1. Two to three framing styles 2. The type of wood 3. The dimensions of the footprint, bathrooms, kitchen, bedrooms</p> <p>HVAC Consideration of and capacity calculations for <u>two</u> types of HVAC systems, including furnace systems</p> <p>ELECTRICAL Consideration of only <u>one</u> of the following: 1. Two to three types of circuit boards 2. Comparison of storage versus being on the grid, with a minimum of four aspects</p> <p>WATER & SEWAGE Consideration of only <u>one</u> of the following: 1. Comparison of well water versus town water supply 2. Two to three types of piping</p>	<p>The <i>Design Process</i> has been followed and shows evidence of:</p> <p>FRAMING Consideration of <u>all</u> of the following: 1. Two to three framing styles 2. The type of wood 3. The dimensions of the footprint, bathrooms, kitchen, bedrooms</p> <p>HVAC Consideration of and capacity calculations for <u>three</u> types of HVAC systems, including furnace systems</p> <p>ELECTRICAL Consideration of <u>all</u> of the following: 1. Two to three types of circuit boards 2. Comparison of storage versus being on the grid, with a minimum of four aspects</p> <p>WATER & SEWAGE Consideration of <u>all</u> of the following: 1. Comparison of well water versus town water supply 2. Two to three types of piping</p>	<p>All of the Practitioner plus:</p> <p>Written correspondence to various suppliers/manufacturers</p> <p>Obtained samples of products</p>
--	---	---	---	---

Scale Model	Incomplete or improperly scaled prototype is constructed	Complete scaled prototype constructed	Complete scaled prototype constructed with removable roof	All of the Practitioner plus: scaled furniture and landscaping
COST ESTIMATE	<p>Includes costs for <u>two to three</u> of the following:</p> <ol style="list-style-type: none"> 1. Foundation 2. Framing 3. Insulation 4. Drywall 5. Finish carpentry 6. Paint 7. Roof shingles <p>Final cost for dwelling is missing or improperly calculated</p>	<p>Includes costs for <u>four to five</u> of the following:</p> <ol style="list-style-type: none"> 1. Foundation 2. Framing 3. Insulation 4. Drywall 5. Finish carpentry 6. Paint 7. Roof shingles <p>Final cost for dwelling is accurately calculated based on the elements selected</p>	<p>Includes costs for <u>all</u> of the following:</p> <ol style="list-style-type: none"> 1. Foundation 2. Framing 3. Insulation 4. Drywall 5. Finish carpentry 6. Paint 7. Roof shingles <p>Final cost for dwelling is accurately calculated</p>	<p>All of the Practitioner plus:</p> <p>Cost analysis provided for more than one type of:</p> <ul style="list-style-type: none"> ● wood ● HVAC systems ● Electrical systems ● Water & Sewage systems