



# Green Building Program

## Steamboat Springs and Routt County

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# City and County Awarded DOLA Grant

- ⇒ \$25k grant – City match 100%
- ⇒ As part of the grant the city and county agree to create a model green building program
- ⇒ Coordinated Effort – City/County working together

# Making it Happen

- ⇒ **Project coordinators select consultants**
- ⇒ **Form a stakeholder Technical Advisory Committee (TAC)**
  - Comprised of Builders, Architects, Engineers, Realtors, General Public, Developers, and Community activists
- ⇒ **Public Outreach**
  - TAC has meeting over 20 times to work on the GBP
  - Three Open Houses and a Joint City Council/County Commissioner meeting.

# Program In General

- ⇒ Customized program specifically tailored to climate of the Yampa Valley
- ⇒ Best of the Best - Mix of national and mountain town programs
- ⇒ Program is applicable to single-family, duplex, and row townhomes.

# Draft Program Checklist

## New Homes Checklist Steamboat Springs/Keost County

Project Name:	Green Building	Energy	Water	Indoor Air Quality	Accessibility
<b>1. Energy</b>					
1. Meet ENERGY STAR Performance Path Requirements					
a. Complete the ENERGY STAR Thermal Envelope Inspection Checklist	M	M			
b. For each IEERS Index below 80 (Maximum: 75 points)					
<b>2. Meet ENERGY STAR Prescriptive Path Requirements (Compliance Only)</b>					
a. Complete the ENERGY STAR Thermal Envelope Inspection Checklist	M	M			
b. Build to ENERGY STAR Builder Option Package (BOP) for climate zone 7	M	M			
Total Points Possible in Energy = 79					
<b>2. General Requirements</b>					
1. Incorporate Checklist in Blueprint	M			M	
2. Provide Manufacturer Manual of Green Features Benefits	M			M	
3. Complete Design Measures & Load Profiles		1			
Total Points Possible in General Requirements = 7					
<b>3. Site</b>					
1. Protect Native Soil and Minimize Impacts of Existing Roads and Yards					
a. Report of Erosion Control from Erosion and Sediment after Construction	M				M
2. Remove Concrete Porous Construction	M				M
3. Site is Within 1/4 Mile of Public Transportation or 1/4 of a Mile of a Community Center		4			
4. 10% Recycled Tarpaulin Recycled on Site					1
5. Use Recycled Content Aggregate (Minimum 15%)					
a. Walkway and Driveway					
b. Walkway Base					
6. 20% or More Fly Ash Content in Over 10% of Concrete Used (see Appendix)					1
7. Concrete Curing Process Area not Include Progress or Additional Energy in Cure			1		
8. Porosity Materials					1
a. 25-50% of Hardscaped Area					1
b. 75-100% of Hardscaped Area					1
9. No Fresh Paint Increased System			1		
10. Reduce Long-term Emission through Use of Retaining Walls and Terracing					1
11. Regulated/Volatile Solids in Filter Incentive Benefit					1
Total Points Possible in Site = 12					
<b>4. Recycle and Reuse</b>					
1. Recycle 25 Site Construction Waste					
a. 100% Soil					1
b. 100% Wood					1
c. 100% Cardboard					1
2. Install Bulk-In Recycling Center					1
a. Bulk-In Recycling Center					1
b. Bulk-In Composting Center					1
3. Recycle Green Waste On Site or At Community Compost Center					1
4. Use Recycled Concrete or Asphalt					1
5. Use of Compost from Local Landfills for Landscaping					1
Total Points Possible in Recycle and Reuse = 14					



# Levels of Certification



**Green Beginner**

**90 Points**



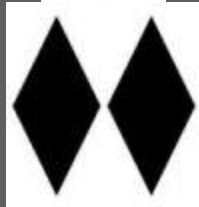
**Green Intermediate**

**120 Points**



**Green Expert**

**180 Points**



**Green Extreme**

**240 Points**

- ❖ Additional points required for homes over 3,000 sq. ft.
- ❖ 1pt./100 sq. ft.

# No Cost / Low Cost Incentives

- ⇒ Additional signage for higher rated homes
- ⇒ Marketing Programs that recognize the best of the best – builder, architect, home
- ⇒ Annual Awards Program
- ⇒ Fast tracked permits

# Next Steps

- ⇒ December- Adoptions hearings
- ⇒ January 1, 2009 - Implementation
- ⇒ 2009 – Develop Renewable Energy Mitigation Program (REMP)
- ⇒ 2009 – Develop Commercial and Multi-family Green Building Programs



# Implementation

- ⇒ January 1, 2009 – Mandatory Review Voluntary Compliance
- ⇒ January 1, 2010 – Mandatory Compliance

# Public Support

## ⇒ Educate

- Cost benefit analysis
- Car sticker reference / Energy Guide Label for home
- ROI – Return on Investment
- Healthy home

# Political Challenges

- ⇒ Cost to municipality for administration
- ⇒ Cost to constituents for compliance
- ⇒ Economic Conditions
- ⇒ Lack of knowledge regarding benefits of GB
- ⇒ Concern for adding new regulations

# Lessons Learned

- ⇒ Can never be enough public outreach!
- ⇒ Stakeholder buy-in and participation KEY!
- ⇒ GBP can even the playing field
- ⇒ Don't overwhelm – Ease into new programs
- ⇒ Educate – Officials, builders, public
- ⇒ Keep it simple – Easiest is best

# Q & A

