

Chapter Two:

Green Points

When remodeling, it is important to look carefully at the type of project and incorporate as many green features as possible. The Green Points is a rating system that has been developed to offer building professionals and homeowners a tool to assess how environmentally friendly or “green” a home is. The items listed on the Green Points represent a variety of green building opportunities, however; not all of them may apply to your project. Each measure is assigned to a specific category – Resources, Energy and IAQ/Health – to give you an idea of the impact of each measure. Although some measures may fit into more than one category, they have been assigned to the category where they have the greatest impact.

Green Points

Due to the diversity of remodeling project types, assigning a “total points” value to a project to be considered environmentally friendly is not feasible. However, 25 measures have been highlighted to signify that every effort should be made to incorporate them into your projects. These items have been chosen based up on their impact on the environment and the health of the home in coordination

with ease of implementation and relative low cost. These measures can be used as a starting point for “greening” your project. You can download an electronic version of the Green Points at www.stopwaste.org.

POINTS PER CATEGORY	Available Points	Resources	Energy	IAQ/Health
A. Site				
1. Recycle Job Site Construction and Demolition Waste 65% = 1 point; 75% = 2 points; 80% = 4 points	up to 4 Resource pts.	<input type="checkbox"/>		
2. Salvage Reusable Building Material	4 Resource pts.	<input type="checkbox"/>		
3. Remodel for Mixed Use, Adaptive Reuse, and Historic Preservation	4 Resource pts.	<input type="checkbox"/>		
4. Protect Native Soil	2 Resource pts.	<input type="checkbox"/>		
5. Minimize Disruption of Existing Plants and Trees	1 Resource pt.	<input type="checkbox"/>		
6. Implement Construction Site Stormwater Practices	2 Resource pts.	<input type="checkbox"/>		
7. Protect Water Quality with Landscape Design	2 Resource pts.	<input type="checkbox"/>		
8. Design Resource-Efficient Landscapes and Gardens	4 Resource pts.	<input type="checkbox"/>		
9. Reuse Materials/Use Recycled-Content Materials for Landscape Areas	2 Resource pts.	<input type="checkbox"/>		
10. Install High-Efficiency Irrigation Systems	2 Resource pts.	<input type="checkbox"/>		
11. Provide for On-Site Water Catchment / Retention	2 Resource pts.	<input type="checkbox"/>		
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Foundation				
1. Incorporate Recycled Flyash in Concrete 25% Recycled Flyash = 2 points; Add 1 point for every 10% increase of flyash, up to 5 points	up to 5 Resource pts.	<input type="checkbox"/>		
2. Use Recycled-Content Aggregate	2 Resource pts.	<input type="checkbox"/>		
3. Insulate Foundation Before Backfill	3 Energy pts.		<input type="checkbox"/>	
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Structural Frame				
1. Substitute Solid Sawn Lumber with Engineered Lumber	3 Resource pts.	<input type="checkbox"/>		
2. Use FSC Certified Wood for Framing (For every 10% of FSC lumber used = 2 points, up to 10)	up to 10 Resource pts.	<input type="checkbox"/>		
3. Use Wood I-Joists for Floors and Ceilings	2 Resource pts.	<input type="checkbox"/>		
4. Use Web Floor Trusses	2 Resource pts.	<input type="checkbox"/>		
5. Design Energy Heels on Roof Trusses 6” or More	2 Energy pts.		<input type="checkbox"/>	

POINTS PER CATEGORY	Available Points	Resources	Energy	IAQ/Health
C. Structural Frame (continued)				
6. Use Finger-Jointed Studs for Vertical Applications	2 Resource pts.	<input type="checkbox"/>		
7. Use Engineered Studs for Vertical Applications	2 Resource pts.	<input type="checkbox"/>		
8. Use Recycled-Content Steel Studs for Interior Framing	2 Resource pts.	<input type="checkbox"/>		
9. Use Structural Insulated Panels (SIPs)				
a. Floors	3 Energy pts.		<input type="checkbox"/>	
b. Walls	3 Energy pts.		<input type="checkbox"/>	
c. Roof	3 Energy pts.		<input type="checkbox"/>	
10. Apply Advanced Framing Techniques	4 Resource pts.	<input type="checkbox"/>		
11. Use Reclaimed Lumber for Non-Structural Applications	3 Resource pts.	<input type="checkbox"/>		
12. Use OSB for Subfloor and Sheathing				
a. Subfloors	1 Resource pt.	<input type="checkbox"/>		
b. Sheathing	1 Resource pt.	<input type="checkbox"/>		
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Exterior Finish				
1. Use Sustainable Decking Materials				
a. Recycled-Content	3 Resource pts.	<input type="checkbox"/>		
b. FSC Certified Wood	3 Resource pts.	<input type="checkbox"/>		
2. Use Treated Wood That Does Not Contain Chromium or Arsenic	1 IAQ/Health pt.			<input type="checkbox"/>
3. Install House Wrap Under Siding	1 IAQ/Health pt.			<input type="checkbox"/>
4. Use Fiber-Cement Siding Materials	1 Resource pt.	<input type="checkbox"/>		
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Plumbing				
1. Install Water Heater Jacket	1 Energy pt.		<input type="checkbox"/>	
2. Insulate Hot and Cold Water Pipes	2 Energy pts.		<input type="checkbox"/>	
3. Retrofit all Faucets and Showerheads with Flow Reducers				
a. Faucets (1 point each, up to 2 points)	up to 2 Resource pts.	<input type="checkbox"/>		
b. Showerheads (1 point each, up to 2 points)	up to 2 Resource pts.	<input type="checkbox"/>		
4. Replace Toilets with Ultra-Low-Flush Models (1 point each, up to 3 points)	up to 3 Resource pts.	<input type="checkbox"/>		
5. Install Chlorine Filter on Showerheads	1 IAQ/Health pt.			<input type="checkbox"/>
6. Convert Storage to Tankless Water Heater	4 Energy pts.		<input type="checkbox"/>	
7. Install Water Filtration Units at Faucets (2 points each, up to 4 points)	up to 4 IAQ/Health pts.			<input type="checkbox"/>
8. Install On-Demand Hot Water Circulation Pump	4 Resource pts.	<input type="checkbox"/>		
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Electrical				
1. Install Compact Fluorescent Light Bulbs (CFLs) (6 bulbs=2 points, 10 bulbs =3 points, 12 bulbs = 4 points)	up to 4 Energy pts.		<input type="checkbox"/>	
2. Install IC-AT Recessed Lighting Fixtures with CFLs (1 point each, up to 5 points)	up to 5 Energy pts.		<input type="checkbox"/>	
3. Install Lighting Controls (1 point per fixture, up to 4 points)	up to 4 Energy pts.		<input type="checkbox"/>	
4. Install High Efficiency Ceiling Fans with CFLs (1 point each, up to 4 points)	up to 4 Energy pts.		<input type="checkbox"/>	
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

POINTS PER CATEGORY		Available Points	Resources	Energy	IAQ/Health
G. Appliances					
1.	Install Energy Star® Dishwasher	1 Energy pt.		<input type="checkbox"/>	
2.	Install Washing Machine with Water and Energy Conservation Features	1 Energy pt.		<input type="checkbox"/>	
3.	Install Energy Star® Refrigerator	1 Energy pt.		<input type="checkbox"/>	
4.	Install Built-In Recycling Center	3 Resource pts.	<input type="checkbox"/>		
Subtotal from this section			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Insulation					
1.	Upgrade Wall and Ceiling Insulation to Exceed Title 24 Requirements				
a.	Walls	2 Energy pts.		<input type="checkbox"/>	
b.	Ceilings	2 Energy pts.		<input type="checkbox"/>	
2.	Install Floor Insulation Over Crawl Space	4 Energy pts.		<input type="checkbox"/>	
3.	Install Recycled-Content, Fiberglass Insulation with No Added Formaldehyde	3 IAQ/Health pts.			<input type="checkbox"/>
4.	Use Advanced Infiltration Reduction Practices	2 Energy pts.		<input type="checkbox"/>	
5.	Use Cellulose Insulation				
a.	Walls	4 Resource pts.	<input type="checkbox"/>		
b.	Ceilings	4 Resource pts.	<input type="checkbox"/>		
6.	Install Alternative Insulation Materials (Cotton, Spray-Foam)				
a.	Walls	4 Resource pts.	<input type="checkbox"/>		
b.	Ceilings	4 Resource pts.	<input type="checkbox"/>		
Subtotal from this section			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Windows					
1.	Install Energy-Efficient Windows				
a.	Double-Paned	1 Energy pt.		<input type="checkbox"/>	
b.	Low-Emissivity (Low-E)	2 Energy pts.		<input type="checkbox"/>	
c.	Low Conductivity Frames	2 Energy pts.		<input type="checkbox"/>	
2.	Install Low SHGC Window Film on Single-Glazing	1 Energy pt.		<input type="checkbox"/>	
Subtotal from this section			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Heating, Ventilation and Air Conditioning					
1.	Use Duct Mastic on all Duct Joints	2 Energy pts.		<input type="checkbox"/>	
2.	Install New Ductwork within Conditioned Space	3 Energy pts.		<input type="checkbox"/>	
3.	Vent Range Hood to the Outside	1 IAQ/Health pt.			<input type="checkbox"/>
4.	Clean all Ducts before Occupancy	2 IAQ/Health pts.			<input type="checkbox"/>
5.	Install Solar Attic Fan	2 Energy pts.		<input type="checkbox"/>	
6.	Install Attic Ventilation Systems	1 Energy pt.		<input type="checkbox"/>	
7.	Install Whole House Fan	4 Energy pts.		<input type="checkbox"/>	
8.	Install Sealed Combustion Furnaces and Hot Water Heaters				
a.	Furnaces	3 IAQ/Health pts.			<input type="checkbox"/>
b.	Water Heaters	3 IAQ/Health pts.			<input type="checkbox"/>
9.	Replace Wall-Mounted Electric and Gas Heaters with Through-the-Wall Heat Pumps	3 Energy pts.		<input type="checkbox"/>	
10.	Install 13 SEER and 11 EER or Higher AC with TXV	3 Energy pts.		<input type="checkbox"/>	
11.	Install AC with Non-HCFC Refrigerants	2 Resource pts.	<input type="checkbox"/>		
12.	Install 90% Annual Fuel Utilization Efficiency (AFUE) Furnace	2 Energy pts.		<input type="checkbox"/>	
13.	Retrofit Wood Burning Fireplaces				
a.	Install EPA certified wood stoves/inserts	1 IAQ/Health pt.			<input type="checkbox"/>
b.	Install/Replace Dampers	1 Energy pt.		<input type="checkbox"/>	
c.	Install Airtight Doors on Fireplaces	1 Energy pt.	<input type="checkbox"/>		

POINTS PER CATEGORY	Available Points	Resources	Energy	IAQ/Health
J. Heating, Ventilation and Air Conditioning (continued)				
14. Install Zoned, Hydronic Radiant Heating	3 Energy pts.		<input type="checkbox"/>	
15. Install High Efficiency Filter	4 IAQ/Health pts.			<input type="checkbox"/>
16. Install Heat Recovery Ventilation Unit (HRV)	5 IAQ/Health pts.			<input type="checkbox"/>
17. Install Separate Garage Exhaust Fan	3 IAQ/Health pts.			<input type="checkbox"/>
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Renewable Energy and Roofing				
1. Pre-Plumb for Solar Water Heating	4 Energy pts.		<input type="checkbox"/>	
2. Install Solar Water Heating	10 Energy pts.		<input type="checkbox"/>	
3. Pre-Wire for Future Photovoltaic (PV) Installation	4 Energy pts.		<input type="checkbox"/>	
4. Install Photovoltaic (PV) System (1.2 kw = 6 points, 2.4 kw = 12 points, 3.6 kw = 18 points)	up to 18 Energy pts.		<input type="checkbox"/>	
5. Select Safe and Durable Roofing Materials	1 Resource pt.	<input type="checkbox"/>		
6. Install Radiant Barrier	3 Energy pts.		<input type="checkbox"/>	
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. Natural Heating and Cooling				
1. Incorporate Passive Solar Heating	5 Energy pts.		<input type="checkbox"/>	
2. Install Overhangs or Awnings over South Facing Windows	3 Energy pts.		<input type="checkbox"/>	
3. Plant Deciduous Shade Trees on the West and South Sides	3 Energy pts.		<input type="checkbox"/>	
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M. Indoor Air Quality and Finishes				
1. Use Low/No-VOC Paint	1 IAQ/Health pt.			<input type="checkbox"/>
2. Use Low VOC, Water-Based Wood Finishes	2 IAQ/Health pts.			<input type="checkbox"/>
3. Use Low/No-VOC Adhesives	3 IAQ/Health pts.			<input type="checkbox"/>
4. Use Salvaged Building Materials for Interior Finish	3 Resource pts.	<input type="checkbox"/>		
5. Use Engineered Sheet Goods with No Added Formaldehyde	6 IAQ/Health pts.			<input type="checkbox"/>
6. Use Exterior Grade Plywood for Interior Uses	1 IAQ/Health pt.			<input type="checkbox"/>
7. Seal all Exposed Particleboard or MDF	4 IAQ/Health pts.			<input type="checkbox"/>
8. Use FSC Certified Materials for Interior Finish	4 Resource pts.	<input type="checkbox"/>		
9. Use Finger-Jointed or Recycled-Content Trim	1 Resource pt.	<input type="checkbox"/>		
10. Install Whole House Vacuum System	3 IAQ/Health pts.			<input type="checkbox"/>
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. Flooring				
1. Select FSC Certified Wood Flooring	8 Resource pts.	<input type="checkbox"/>		
2. Use Rapidly Renewable Flooring Materials	4 Resource pts.	<input type="checkbox"/>		
3. Use Recycled-Content Ceramic Tiles	4 Resource pts.	<input type="checkbox"/>		
4. Install Natural Linoleum in Place of Vinyl	5 IAQ/Health pts.			<input type="checkbox"/>
5. Use Exposed Concrete as Finished Floor	4 Resource pts.	<input type="checkbox"/>		
6. Install Recycled-Content Carpet with Low VOCs	4 Resource pts.	<input type="checkbox"/>		
Subtotal from this section		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOTAL		Resources	Energy	IAQ/Health
Total Available Points	327	140	130	57
Points Achieved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>