

# New Homes Green Points Calculator

CITY OF NOVATO

Alameda County Waste Management Authority - Jan 2004

			Resources	Energy	IAQ/Health
<b>A. Site</b>					
1. Recycle Job Site Construction & Demolition Waste					
50% Recycling Rate is Required					
65% = 1 point; 75% = 2 points; 80% = 4 points					
	Enter up to 4 Resource pts		0		
2. Donate Unused Materials	4 Resource pts	y=yes	0		
3. Protect Native Soil	2 Resource pts	y=yes	0		
4. Minimize Disruption of Existing Plants & Trees	1 Resource pt	y=yes	0		
5. Implement Construction Site Stormwater Practices	2 Resource pts	y=yes	0		
6. Protect Water Quality with Landscape Design	2 Resource pts	y=yes	0		
7. Design Resource-Efficient Landscapes	4 Resource pts	y=yes	0		
8. Reuse Materials/Use Recycled Content Materials for Landscape Areas	2 Resource pts	y=yes	0		
9. Install High-Efficiency Irrigation Systems	2 Resource pts	y=yes	0		
10. Provide for On-Site Water Catchment / Retention	2 Resource pts	y=yes	0		
			<b>POINTS</b>	<b>0</b>	<b>0</b>
<b>B. Foundation</b>					
1. Incorporate Recycled Flyash in Concrete					
15% Recycled Flyash = 2 points					
Add 1 point for every 10% increase of flyash, up to 5 points					
	Enter up to 5 Resource pts		0		
2. Reuse Form Boards	1 Resource pt	y=yes	0		
3. Use Aluminum Forms	3 Resource pts	y=yes	0		
4. Use Recycled Content Aggregate	2 Resource pts	y=yes	0		
5. Insulate Foundation/Slab before backfill	3 Energy pts	y=yes		0	
6. Install Rigid Foam, Insulated Concrete Forms (ICFs)	3 Energy pts	y=yes		0	
			<b>POINTS</b>	<b>0</b>	<b>0</b>
<b>C. Structural Frame</b>					
1. Substitute Solid Sawn Lumber with Engineered Lumber					
a. Floors	1 Resource pt	y=yes	0		
b. Headers (non-structural)	1 Resource pt	y=yes	0		
c. Structural beams and headers	1 Resource pt	y=yes	0		
2. Use FSC Certified Wood for framing					
For every 10% of FSC lumber used = 2 points, up to 10					
	Enter up to 10 Resource pts		0		
3. Use Wood I-Joists for Floors and Ceilings	2 Resource pts	y=yes	0		
4. Use Steel Interior Web Trusses	2 Resource pts	y=yes	0		
5. Design Energy Heels on Trusses	2 Energy pts	y=yes		0	
6. Use OSB					
a. Subfloors	1 Resource pt	y=yes	0		
b. Sheathing	1 Resource pt	y=yes	0		
7. Use Finger-Jointed Studs for Non-Structural Vertical Applications	2 Resource pts	y=yes	0		
8. Use Engineered Studs for Vertical Applications	2 Resource pts	y=yes	0		
9. Use Recycled Content Steel Studs for Interior Framing	2 Resource pts	y=yes	0		
10. Use Structural Insulated Panels (SIPs)					
a. Floors	3 Energy pts	y=yes		0	
b. Wall	3 Energy pts	y=yes		0	
c. Roof	3 Energy pts	y=yes		0	
11. Apply Advanced Framing Techniques	4 Resource pts	y=yes	0		
12. Use Reclaimed Lumber for Non-Structural Applications	3 Resource pts	y=yes	0		
			<b>POINTS</b>	<b>0</b>	<b>0</b>

**D. Exterior Finish**

- 1. Use Sustainable Decking Materials
  - a. Recycled content
  - b. FSC Certified Wood
- 2. Use Non-CCA Treated Wood
- 3. Install House Wrap under Siding
- 4. Use Alternative Siding Materials
  - a. Recycled content
  - b. Fiber-cement

3 Resource pts	y=yes		0		
3 Resource pts	y=yes		0		
1 IAQ/Health pt	y=yes				0
1 IAQ/Health pt	y=yes				0
1 Resource pt	y=yes		0		
3 Resource pts	y=yes		0		
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**E. Plumbing**

- 1. Insulate all Hot Water Pipes
- 2. Install Flow Reducers
  - a. Faucets (1 point each, up to 2 points)
  - b. Showerheads (1 point each, up to 2 points)
- 3. Install Ultra-Low Flush Toilets (1 point each, up to 4 points)
- 4. Install Chlorine Filter on Showerhead
- 5. Install Tankless Water Heater
- 6. Pre-plumb for Graywater Conversion (check with local code)
- 7. Install Water Filtration Units at Faucets (2 points each, up to 4 points)
- 8. Install On-Demand Hot Water Circulation Pump

2 Energy pts	y=yes			0	
Enter up to 2 Resource pts			0		
Enter up to 2 Resource pts			0		
Enter up to 4 Resource pts			0		
4 IAQ/Health pts	y=yes				0
2 Energy pts	y=yes			0	
4 Resource pts	y=yes		0		
Enter up to 4 Resource pts					0
4 Resource pts	y=yes		0		
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**F. Electrical**

- 1. Install Compact Fluorescent Light Bulbs – CFLs.
  - 6 bulbs=2 points, 12=4 points, up to 4 points
- 2. Install Air-Tight Insulation-Compatible Recessed Fixtures for CFLs
  - 1 point each, up to 5 points
- 3. Install Lighting Controls (1 point per fixture, up to 4 points)
- 4. Install High Efficiency Ceiling Fans with CFLs
  - 1 point each, up to 4 points

Enter up to 4 Energy pts				0	
Enter up to 5 Energy pts				0	
Up to 4 Energy pts				0	
Enter up to 4 Energy pts				0	
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**G. Appliances**

- 1. Offer Energy Star Dishwasher
- 2. Offer Horizontal Axis Washing Machine
- 3. Offer Energy-Efficient Refrigerator
- 4. Install Built-In Recycling Center

1 Energy pt	y=yes			0	
1 Energy pt	y=yes			0	
1 Energy pt	y=yes			0	
3 Resource pts	y=yes		0		
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**H. Insulation**

- 1. Upgrade Insulation to Exceed Title 24 Requirements
  - a. Walls
  - b. Ceilings
- 2. Install Recycled-Content, Formaldehyde-Free Fiberglass Insulation
- 3. Use Advanced Infiltration Reduction Practices
- 4. Use Cellulose Insulation
  - a. Walls
  - b. Ceilings

2 Energy pts	y=yes			0	
2 Energy pts	y=yes			0	
3 IAQ/Health pts	y=yes				0
2 Energy pts	y=yes			0	
4 Resource pts	y=yes		0		
4 Resource pts	y=yes		0		
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**I. Windows**

- 1. Install Energy-Efficient Windows
  - a. Double-Paned
  - b. Low-Emissivity (Low-E)
  - c. Low-Conductivity Frames

1 Energy pt	y=yes			0	
2 Energy pts	y=yes			0	
2 Energy pts	y=yes			0	

**J. Heating Ventilation and Air Conditioning**

1. Use Duct Mastic on All Duct Joints
2. Install Ductwork Within Conditioned Space
3. Vent Range Hood to the Outside
4. Clean all Ducts Before Occupancy
5. Install Attic Ventilation Systems
6. Install Whole House Fan
7. Install Sealed Combustion Units
  - a. Furnaces
  - b. Water Heaters
8. Install 13 SEER/11EER or higher AC with a TXV
9. Install AC with Non-HCFC Refrigerants
10. Install 90% Annual Fuel Utilization Efficiency (AFUE) Furnace
11. Eliminate Wood Burning Fireplaces
12. Install Zoned, Hydronic Radiant Heating
13. Install High Efficiency Particulate Air (HEPA) filter
14. Install Heat Recovery Ventilation Unit (HRV)
15. Install Separate Garage Exhaust Fan

		POINTS	0	0	0
1 Energy pt	y=yes			0	
3 Energy pts	y=yes			0	
1 IAQ/Health pt	y=yes				0
2 IAQ/Health pts	y=yes				0
1 Energy pt	y=yes			0	
4 Energy pts	y=yes			0	
3 IAQ/Health pts	y=yes				0
3 IAQ/Health pts	y=yes				0
3 Energy pts	y=yes			0	
2 Resource pts	y=yes		0		
2 Energy pts	y=yes			0	
1 IAQ/Health pt	y=yes				0
3 Energy pts	y=yes			0	
4 IAQ/Health pts	y=yes				0
5 Energy pts	y=yes			0	
3 IAQ/Health pts	y=yes				0
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**K. Renewable Energy and Roofing**

1. Pre-Plumb for Solar Water Heating
2. Install Solar Water Heating System
3. Pre-Wire for Future Photovoltaic (PV) Installation
4. Install Photovoltaic (PV) Panels
  - 1.2 kw = 6 points, 2.4 kw = 12 points, 3.6 kw = 18 points
5. Install Solar (PV) Walkway Lights
6. Select Safe and Durable Roofing Materials
7. Install Radiant Barrier Roof Sheathing

4 Energy pts	y=yes			0	
10 Energy pts	y=yes			0	
4 Energy pts	y=yes			0	
Enter up to 18 Energy pts				0	
4 Energy pts	y=yes			0	
1 Resource pt	y=yes		0		
3 Energy pts	y=yes			0	
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**L. Natural Heating and Cooling**

1. Incorporate Passive Solar Heating
2. Install Overhangs or Awnings on South Facing Windows
3. Plant Deciduous Trees on the West and South Sides

5 Energy pts	y=yes			0	
3 Energy pts	y=yes			0	
3 Energy pts	y=yes			0	
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**M. Indoor Air Quality and Finishes**

1. Install Whole House Vacuum System
2. Use Low/No-VOC Paint
3. Use Low VOC, Water-Based Wood Finishes
4. Use Solvent-Free Adhesives
5. Substitute Particleboard with Formaldehyde-Free Materials
6. Use Exterior Grade Plywood for Interior Uses
7. Use Formaldehyde-Free MDF and Materials
8. Seal all Exposed Particleboard or MDF
9. Use FSC Certified Materials for Interior Finish
10. Use Finger-Jointed or Recycled Content Trim

3 IAQ/Health pts	y=yes				0
1 IAQ/Health pt	y=yes				0
2 IAQ/Health pts	y=yes				0
3 IAQ/Health pts	y=yes				0
6 IAQ/Health pts	y=yes				0
1 IAQ/Health pt	y=yes				0
4 IAQ/Health pts	y=yes				0
4 IAQ/Health pts	y=yes				0
4 IAQ/Health pts	y=yes				0
1 Resource pt	y=yes		0		
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**N. Flooring**

1. Select FSC Certified Wood Flooring
2. Use Rapidly Renewable Flooring Materials
3. Use Recycled Content Ceramic Tiles
4. Install Natural Linoleum in Place of Vinyl
5. Use Exposed Concrete as Finished Floor

8 Resource pts	y=yes		0		
4 Resource pts	y=yes		0		
4 Resource pts	y=yes		0		
5 IAQ/Health pts	y=yes				0
4 Resource pts	y=yes		0		

6. Install Recycled Content Carpet with Low VOCs

4 Resource pts	y=yes		0		
		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Other**

1. Incorporate Listing of Green Features into Cover of Blueprints

1 Resource pt y=yes

2. Develop Homeowner Manual of Green Features/Benefits

1 Resource pt y=yes

3. Offer Coupons for Compost Bins to Homeowners

1 Resource pt y=yes

4. Energy Ratings

Every % improvement in reducing energy beyond Title 24 Code - 1 point (up to 30 points). Use energy software such as EnergyPro or MicroPas, to show improvement over California Residential Energy Standards (Title 24)

Enter up to 30 Energy pts

5. Innovation Points

These points are given for innovative approaches, including model zero net energy homes, new materials and methodologies, currently not identified above. These approaches must meet environmental goals identified in the Residential Green Building Guidelines.

Innovation Points will be evaluated and awarded by the community/municipality where the project is located.

		<b>POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>
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	Resources	Energy	IAQ/Health	TOTAL
Total Available Points	136	158	63	357
<b>Total Points Acquired</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Minimum Points Required from Each Category	10	10	10	
Minimum Total Points Required				50

Project must acquire a minimum of 50 points. 10 points must be acquired in each category. Remaining 20 points can be acquired by incorporating any green features listed to reach a total of 50 points. Projects obtaining 60 points or more will receive a "Gold Level Status". Total points may be adjusted in the future or modified by individual cities.

Did project achieve 50 points? NO

Did project achieve at least 10 points in each category? NO

Did project achieve Gold Status Level? NO

Project Address	
Permit Number	
Final Inspection Approval	