



Green product life cycle analysis Considers environmental impacts at all stages Manufacturing (including resource extraction & recycled content) Transportation On-site construction Maintenance, repair and replacement Operating energy Demolition and disposal

What makes a product 'green'

 Made with salvaged, recycled or agricultural waste (e.g. Ottawa Fibre fiberglass insulation that uses 65% recycled glass)



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What makes a product 'green'

Conserves natural resources

 (e.g. Triton Underwater Logging of submerged old growth forests)



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What makes a product 'green'

 Avoids toxic or other emissions (e.g. lcynene foamed-in-place insulation that uses water-based blowing agent that doesn't deplete the ozone layer)



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What makes a product 'green'

 Reduces environmental impacts during construction, demolition or renovation

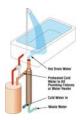
(e.g. Greenland Corporation's biodegradable, vegetable oil-based release agent for concrete forms)



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What makes a building product 'green'

 Saves energy or water (e.g. RenewABILITY's Power-Pipe drainwater heat recovery)



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What makes a product 'green'

 Contributes to a safe, healthy indoor environment (e.g. Dow's <u>former</u> WoodStalk[™] fiberboard panels that used straw particles and formaldehyde-free binder)



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Certification basics

- Relationship of standards and certification programs
 - ▶ Standard
 - set of criteria against which a product can be judged
 - ▶ Certification
 - says that a product meets those criteria

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Certification basics

• Standards and certification reduce temptation to commit "The Six Sins of Greenwashing™'



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Definitions

- What is 'greenwashing'?
 - ▶ The unjustified appropriation of environmental virtue by a company, an industry, a government, a politician or even a
 - non-government organization to:
 create a pro-environment image;

 - sell a product or a policy; or
 rehabilitate their standing with the public and decision makers after being embroiled in controversy.

or

▶ False or misleading green marketing claims

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Certification basics

- "The Six Sins of Greenwashing"
 - 1. Sin of the hidden trade-off
 - suggesting a product is 'green' based on a single or narrow set of attributes without attention to other often more important
 - environmental issues (e.g. products that promote energy efficiency but neglect to disclose that they contain toxic materials)

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Certification basics

- "The Six Sins of Greenwashing"
 - 2. Sin of vagueness
 - claims that are so poorly defined or broad that its real meaning is likely to be misunderstood

(e.g. claiming "recycled content" without quantifying it)

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Certification basics

- "The Six Sins of Greenwashing"
 - 3. Sin of irrelevance
 - claims that may be truthful but are unimportant and unhelpful
 (e.g. claiming "CFC-free" despite the fact that chlorofluorocarbons have been banned for nearly 30 years)

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Certification basics

- "The Six Sins of Greenwashing"
 - 4. Sin of the lesser of two evils
 - claims that may be true within a product category but risk distracting consumers from greater environmental impacts
 (e.g. flooring made from "rapidly renewing bamboo" which is
 harvested from plantations created by clear-cutting tropical forests)

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Certification basics

- "The Six Sins of Greenwashing"
 - 5. Sin of no proof
 - claims that cannot be substantiated (e.g. radiant barrier insulations that make energy saving claims that have not been proven by proper research)

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Certification basics

- "The Six Sins of Greenwashing"
 - 6. Sin of fibbing
 - claims that are simply false (e.g. claiming that a product is made from certified wood but lacks chain-of-custody proof)

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Certification basics

- Three levels of certification for green products
 - ▶ First party
 - self-declared, claims not independently tested or verified - most common
 - ▶ Second party
 - standard set by trade association and claim verified by
 - association or outside consulting firm
 more credible than first party but potential for conflict of interest
 - ▶ Third party
 - independent party tests products and awards certification
 most robust, especially when certifier is approved by SCC, ANSI, etc.

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Certification basics

- Groups of green product certification programs
 - 1. Forestry
 - 2. Indoor air quality
 - 3. Energy and water efficiency
 - 4. Multiple attributes

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Certification basics

- Forestry
 - ▶ Forest Stewardship Council (FSC)
 - ▶ Sustainable Forestry Initiative (SFI)
 - ▶ Canadian Standards Association (CSA)







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