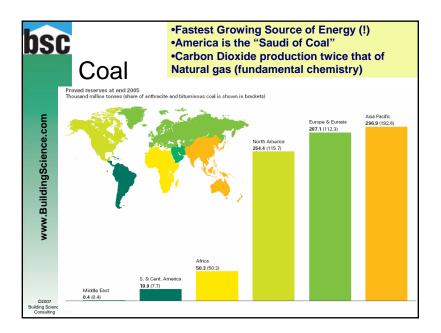
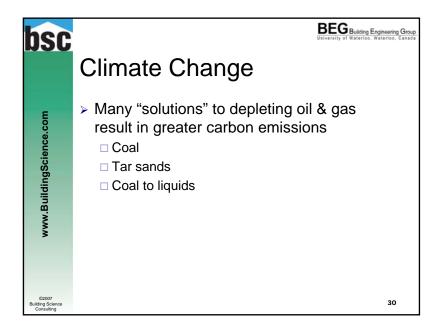
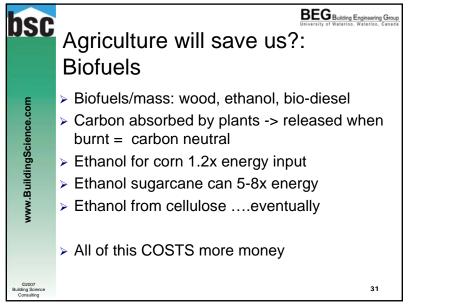


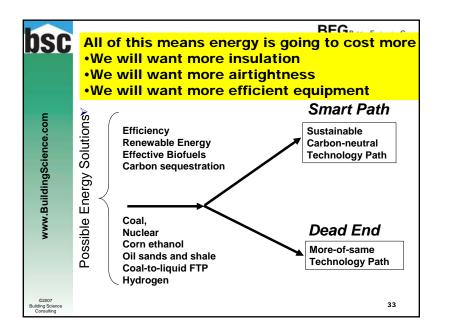
bsc	BEG Building Eng University of Waterios, Wa	ineering <u>Group</u> terloo, Canada
	Coal (50% of US electricity)	
www.BuildingScience.com	 North America/China/Europe has lots Unfortunately it is very dirty (CO2, etc) Mining causes damage Capturing and Storing Carbon is feasible Cost money 2-3 cents/kWh Causes energy costs to increase Bankers refusing to invest! Can convert to liquid fuel but dirty & expensive 	
©2007 Building Science		28

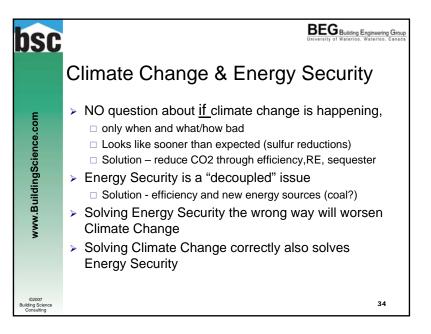


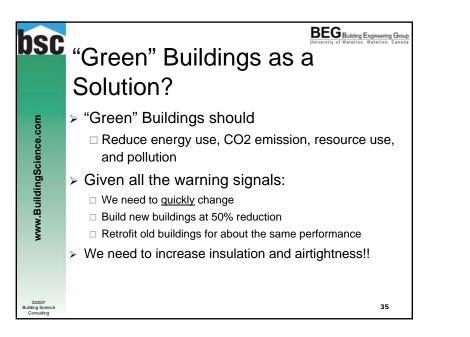


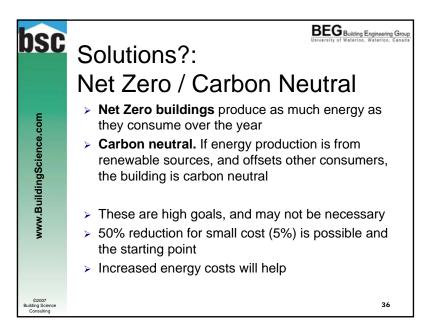


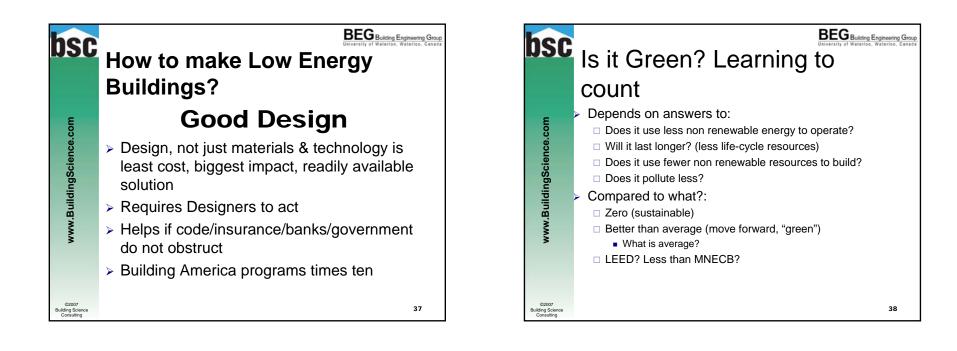
bsc	BEGBuilding Engineering Gro University of Waterloo, Waterloo, Cana
	Biofuels & Biofoods
www.BuildingScience.com	 Ravenous appetite for fuel + poor efficiency of production = major consumer of food crops Corn / soy / land prices rising quickly Poor people suffer 1 SUV tank of corn = 1 person year corn Water aquifiers depleted to irrigate corn Fuel and food get expensive
©2007 Building Science Consulting	32

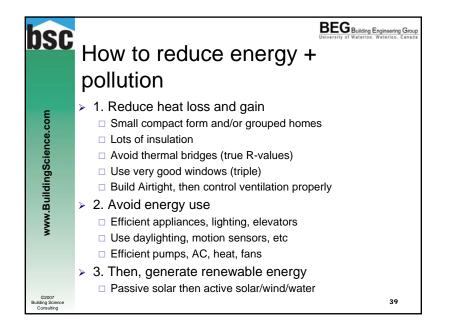


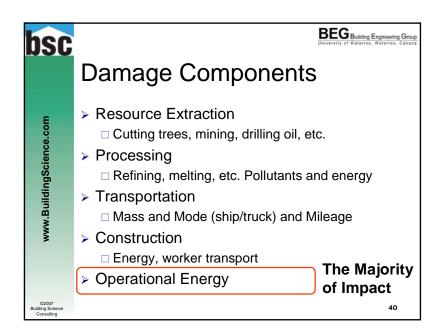


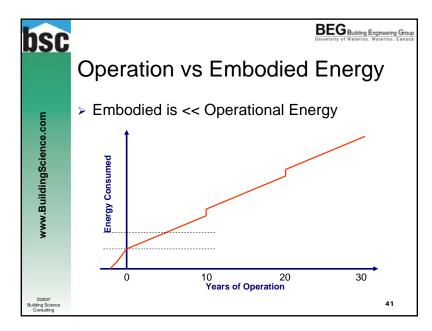


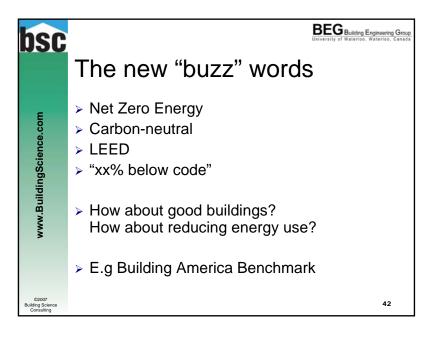


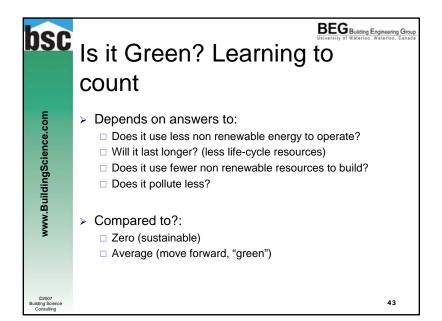


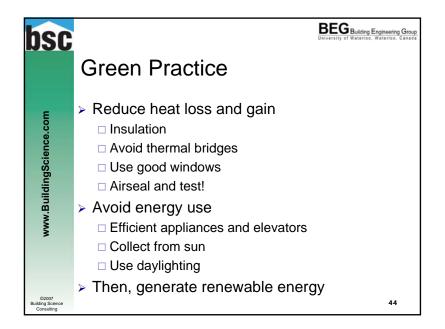




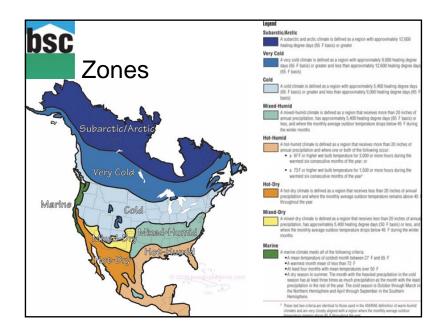


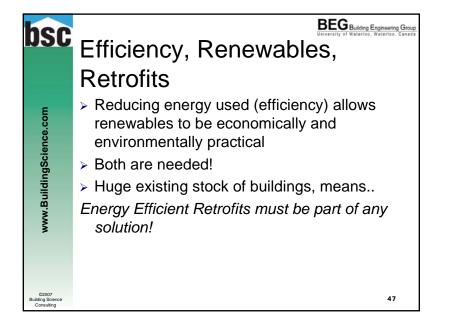


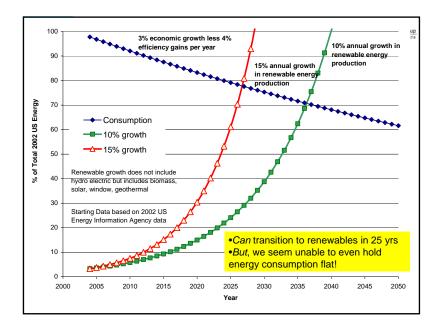


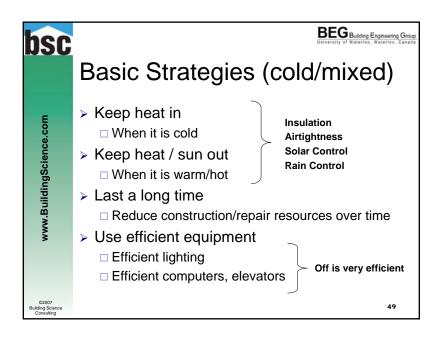


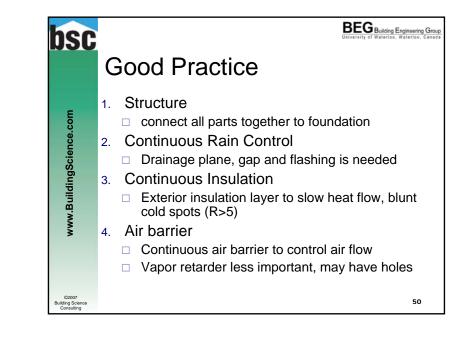


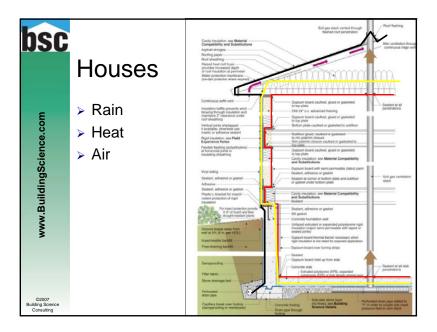




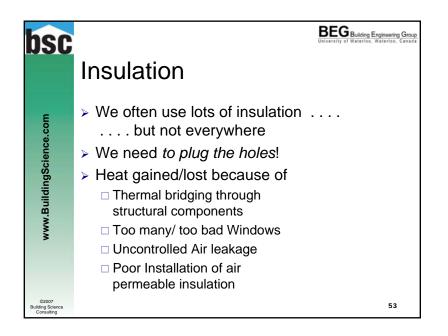


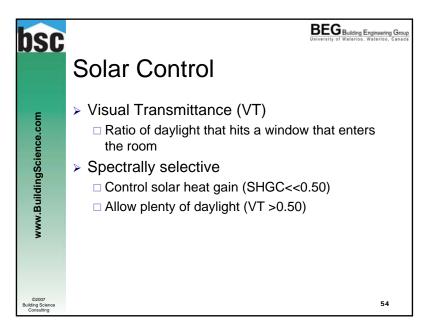




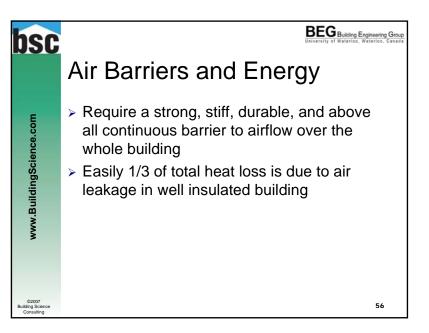


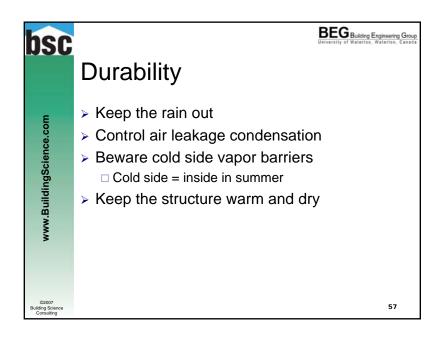
bsc		neering <u>Group</u> lerloo, Canada
www.BuildingScience.com	 Regardless of type, use <i>more</i> For Comfort & Moisture Control True R5-10 is enough (!), but For energy and the environment As much as practical & economical Cold/mixed R20-40 walls and R30-60 roofs Cold Slabs R5-15, basements R15-20 Increased insulation should reduce HVAC capital cost as well as operating! 	
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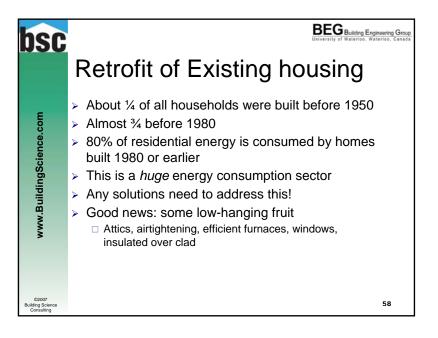


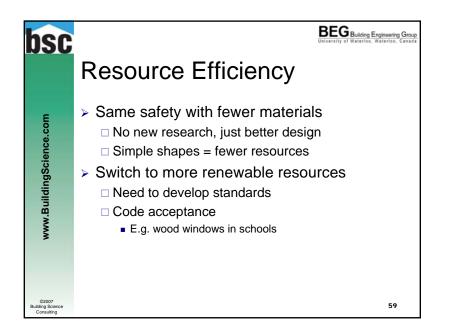












bsc	BEG Building Engle University of Waterioo. Water	neering Group erioo, Canada
www.BuildingScience.com	 Green Building requires Building Science Focus on operational energy Eventually embodied will matter more Insulation with no thermal bridges Airtight w/controlled supply Better windows, solar control Durability matters! Drainage plane, airtightness 	
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