



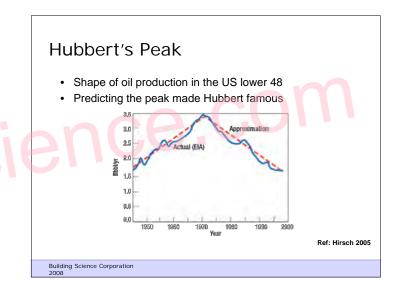


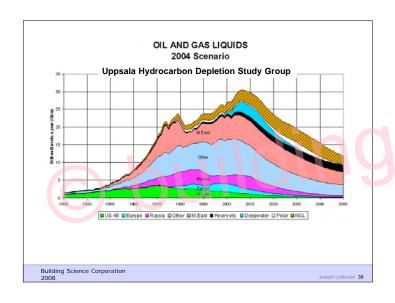


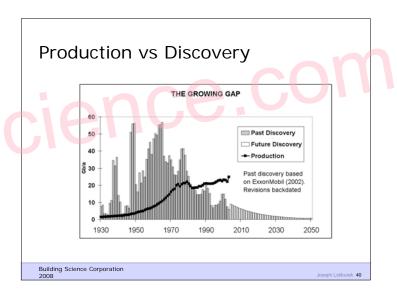


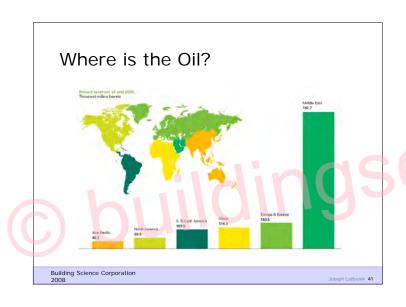
Buildings Are The Key To Energy Security
And Climate Change

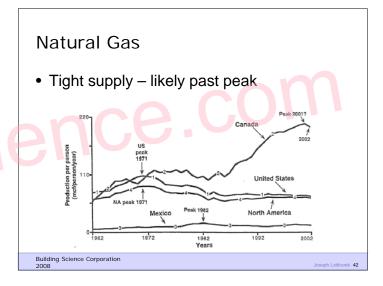
**Building Science Corporation** 

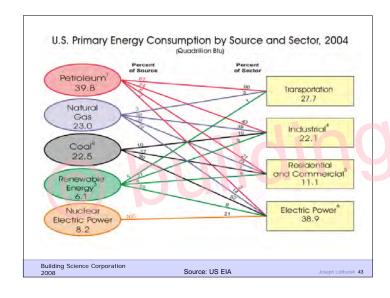


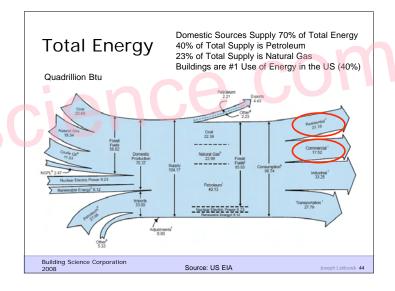






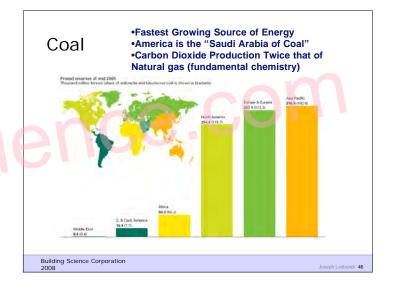


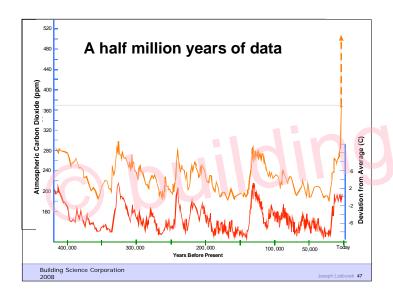




Transportation Sector Will Compete With The Building Sector For The Same Energy

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There is No Question that Climate Change is Happening
The Questions are When, How Bad, Did We do it and Can We Do Anything About it?
Looks Like Sooner Than Expected
Could be Pretty Bad, But then Again Maybe Not
Looks Like We Did Do it, But Not Completely Sure
We Can Fix It - But is it Worth it?
One Solution - Reduce CO2 Through Efficiency & Renewables
Energy Security is a Decoupled Issue
Solution - Efficiency and New Energy Sources (coal?)
Solving Energy Security the Wrong Way Will Worsen Climate Change
Solving Climate Change also Solves Energy Security

It's The Energy Stupid

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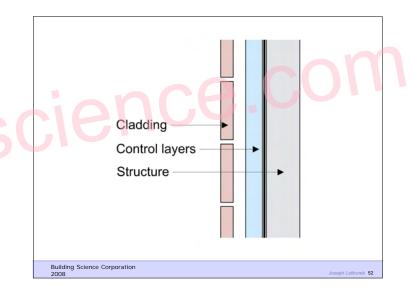
Typical Family Carbon Footprint
50 % House
50% Transportation

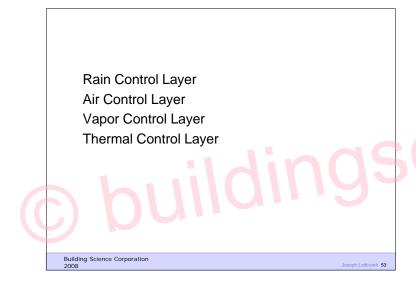
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2008

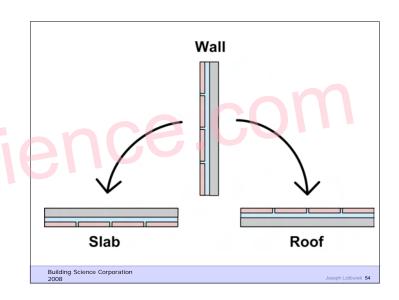
Energy 80 percent
Water 15 percent
Materials 5 percent

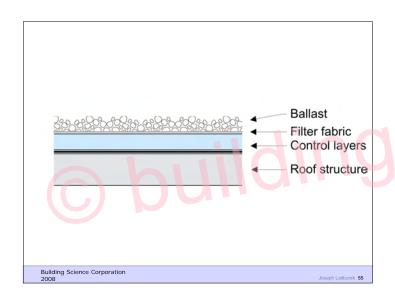
Building Science Corporation
2008

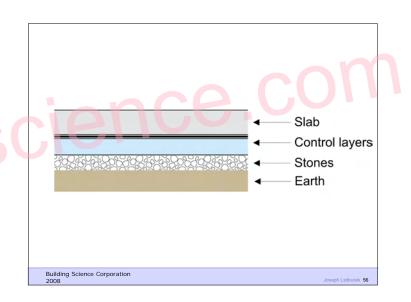
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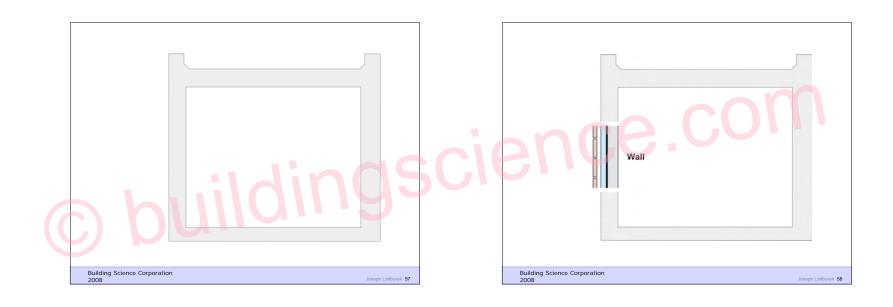


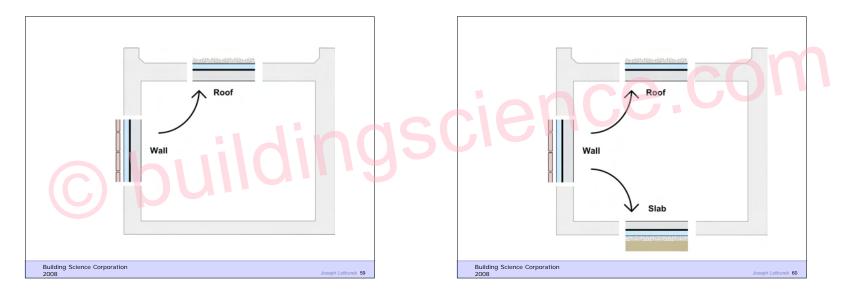


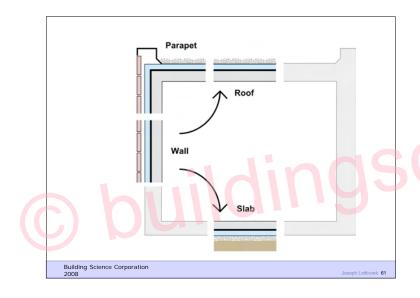


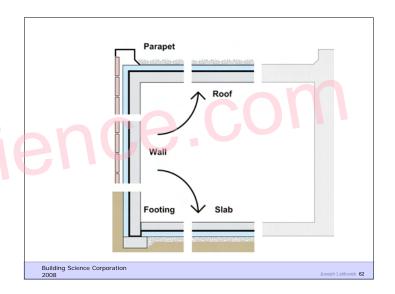


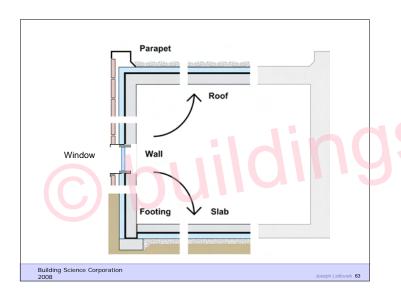


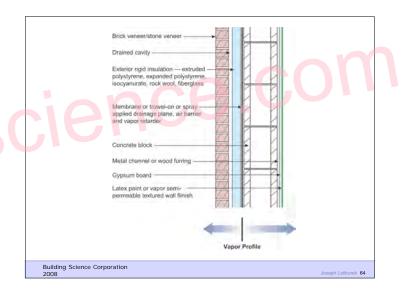


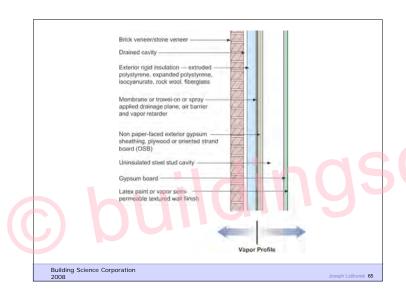


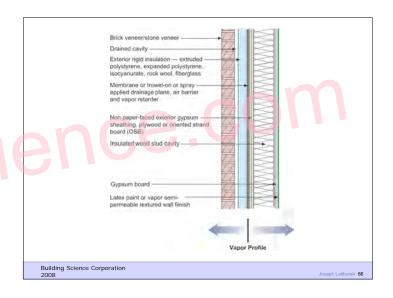




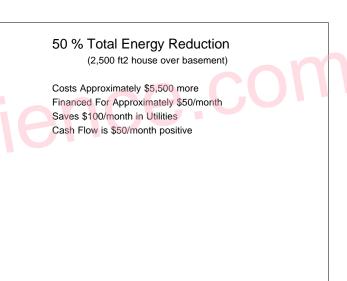








## 50 % Total Energy Reduction (2,500 ft2 house over basement) Advanced Framing - less \$1000 Insulating Sheathing - wash 95 % Furnace - add \$200 Simplified Ductwork - less \$500 **Basement Insulation** - add \$1000 Cavity and Roof Insulation - add \$750 Windows - add \$1000 Heat Exchanger - add \$1500 - add \$250 Air Sealing 16 SEER a/c - add \$450 Tankless DHW - add \$575 Compact Fluorescent Lighting - add \$250 **Energy Star Appliances** - add \$750 Approximately \$5,500 more



We Don't Have An Energy Problem We Have A Stupid Problem

We're Stupid

buildings

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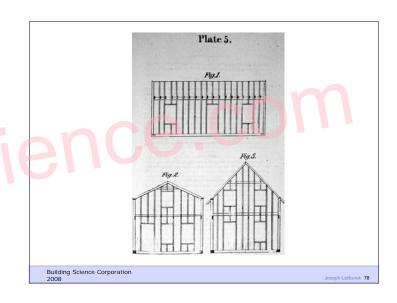












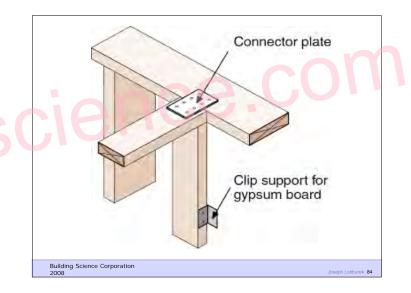






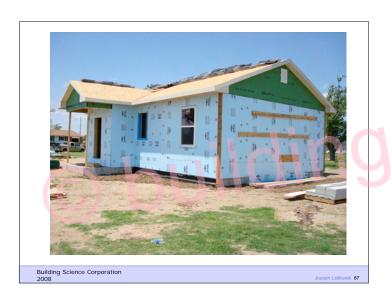
































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