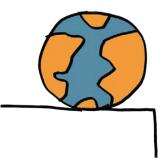
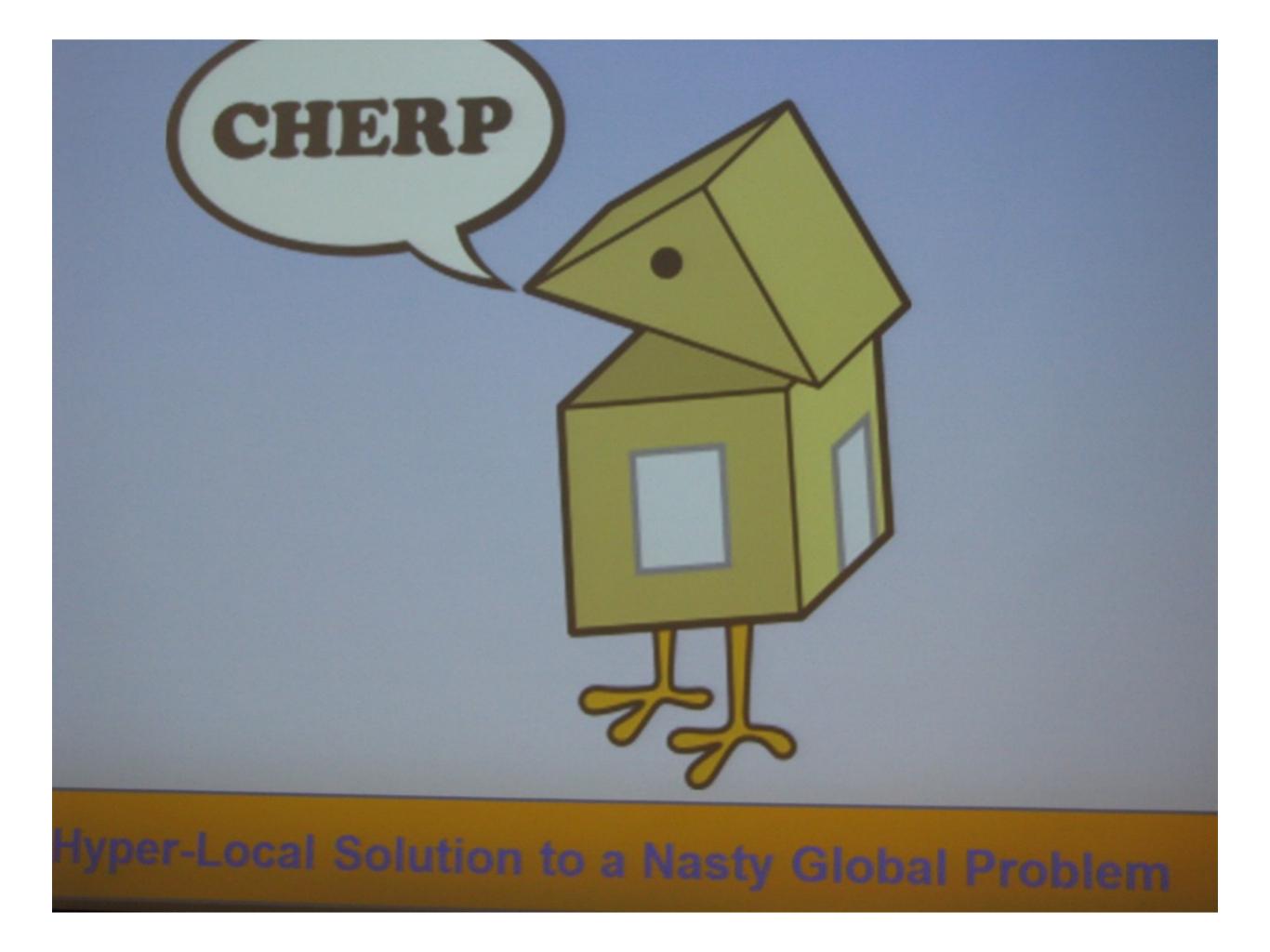
SEIZING AN ALTERNATIVE Toward an Ecological Civilization June 4-7, 2015

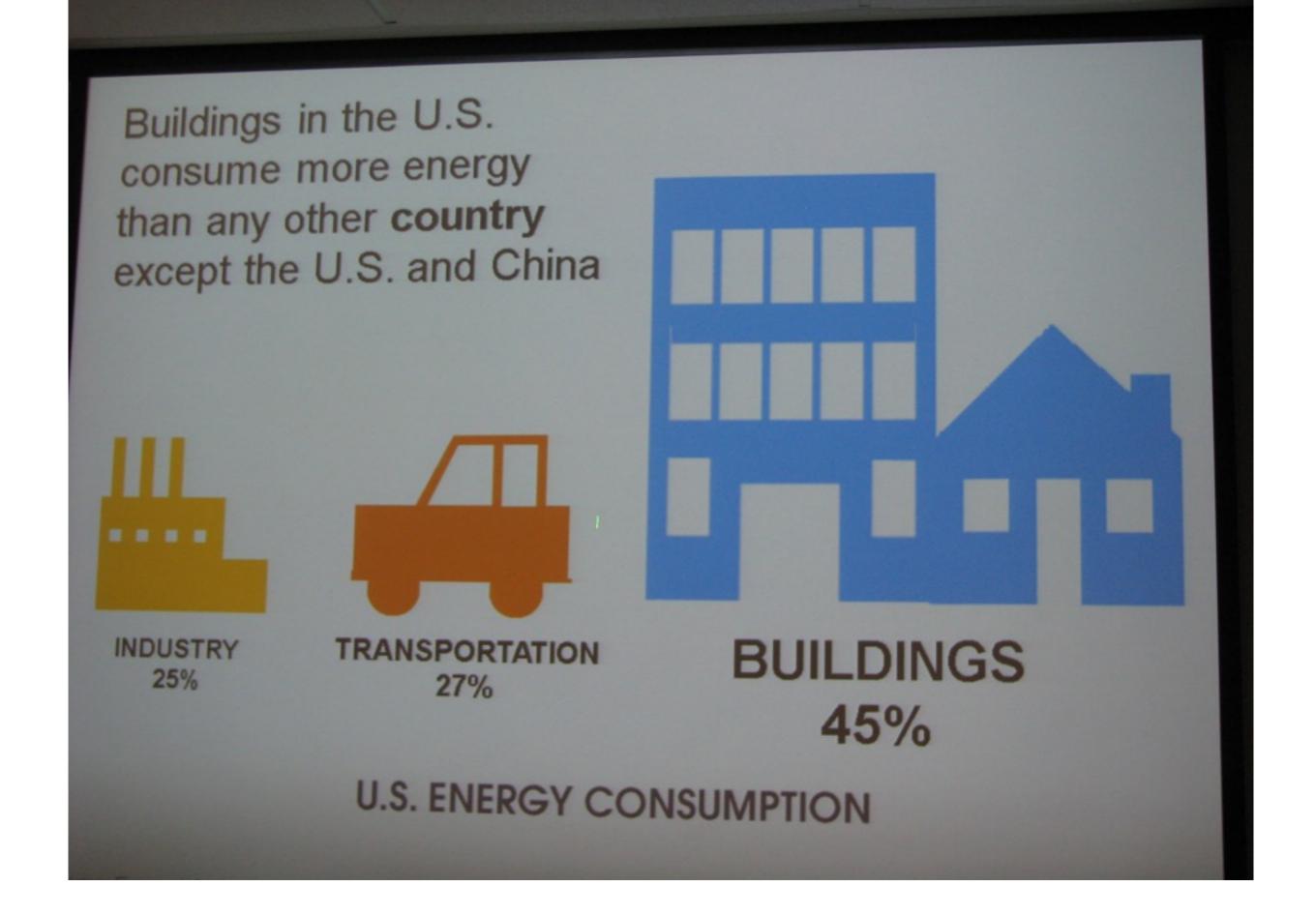
Section I: The Threatening Catastrophe: Responding Now

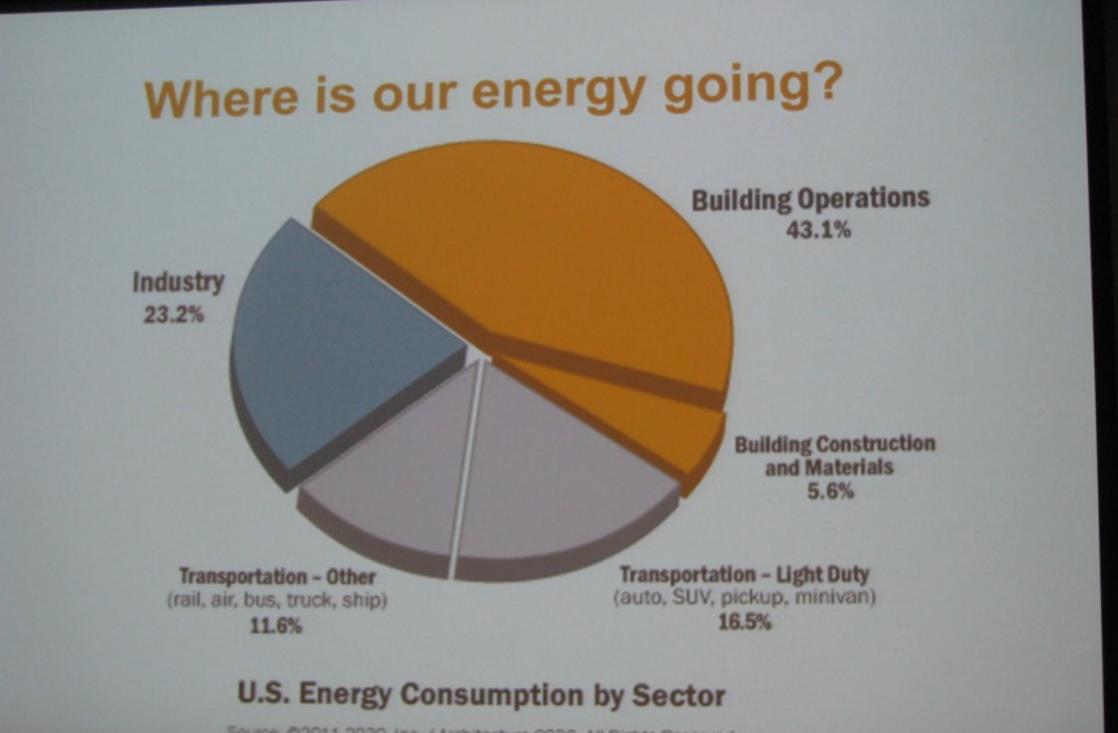












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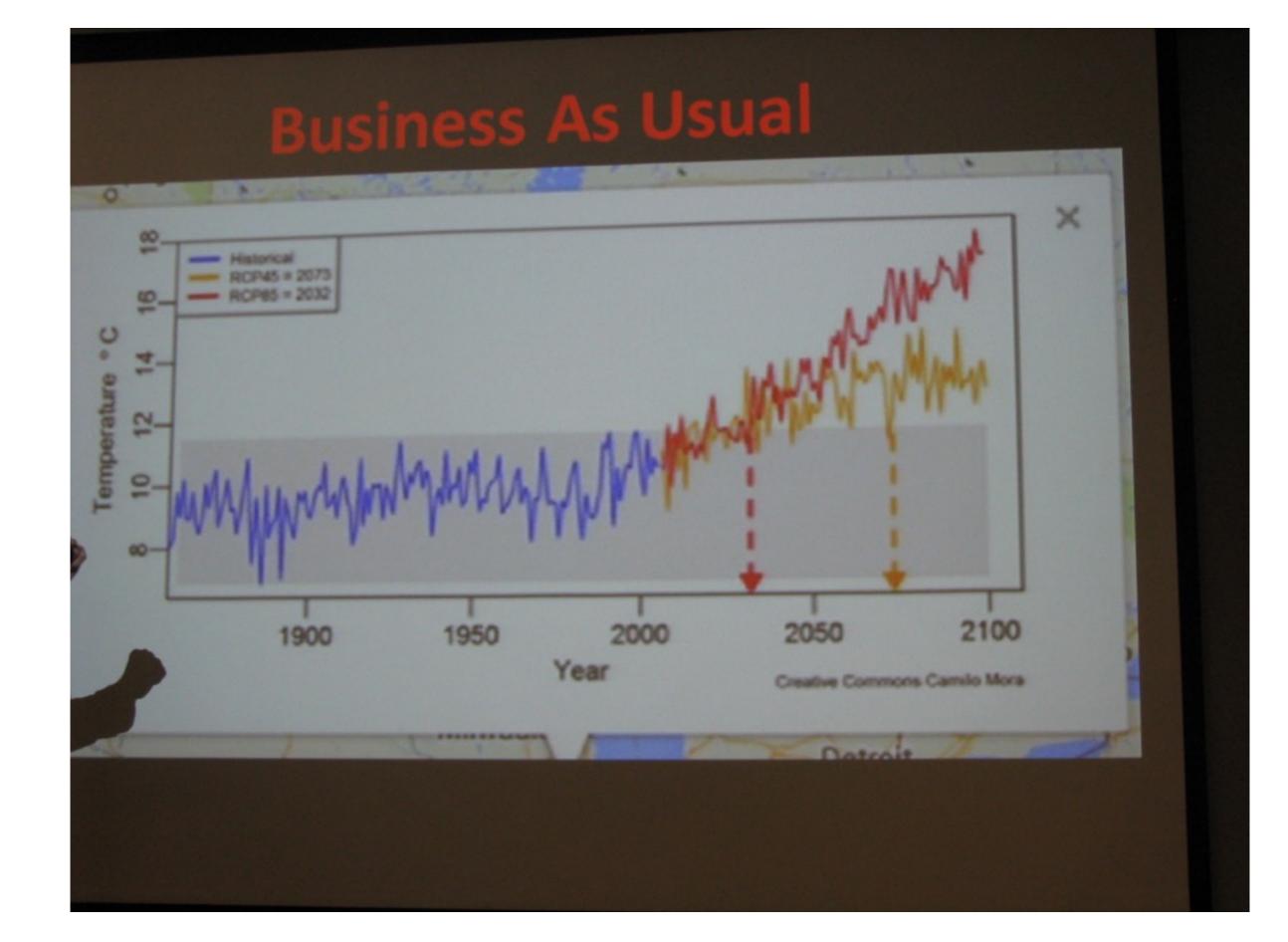
Where is our electricity going?

Industry 24.1% (9.52 QBtu) Building Operations 75.7% (29.98 QBtu)

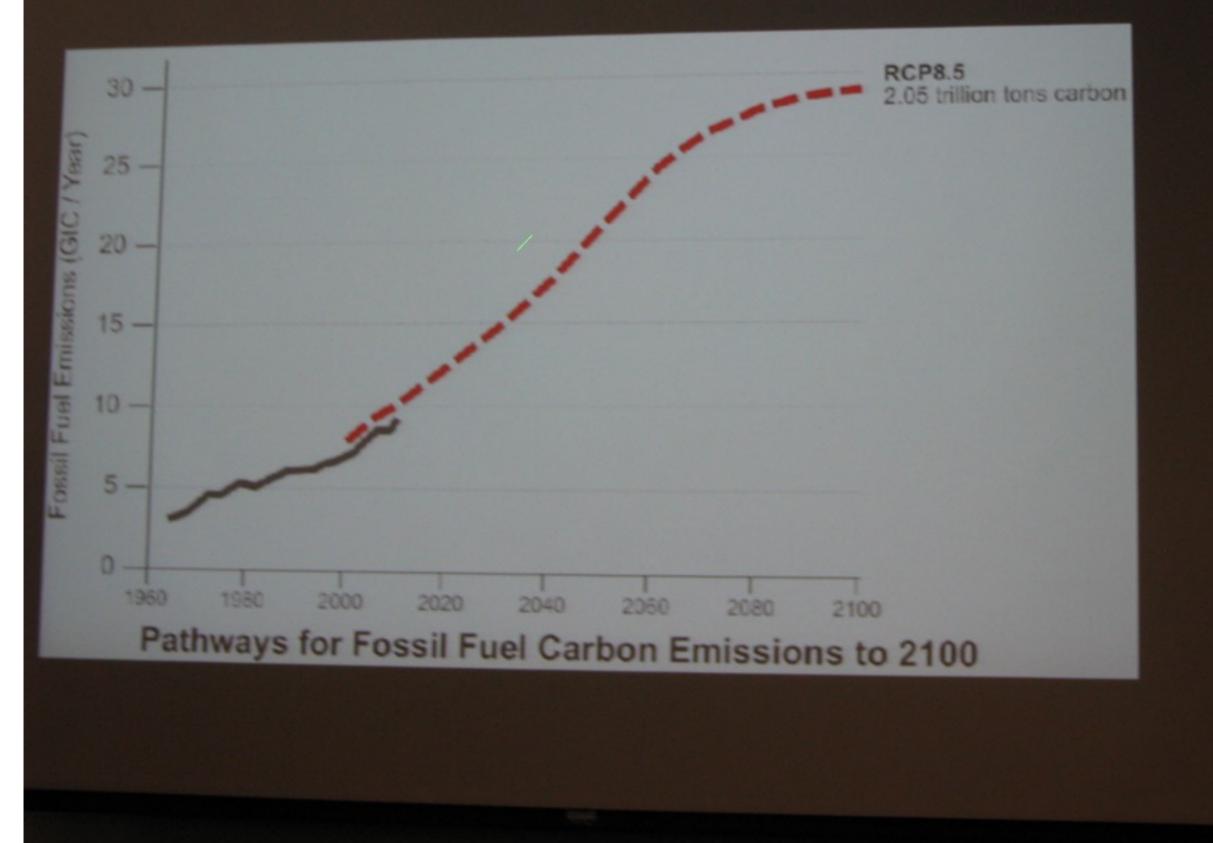
Transportation <1% (.08 QBtu)

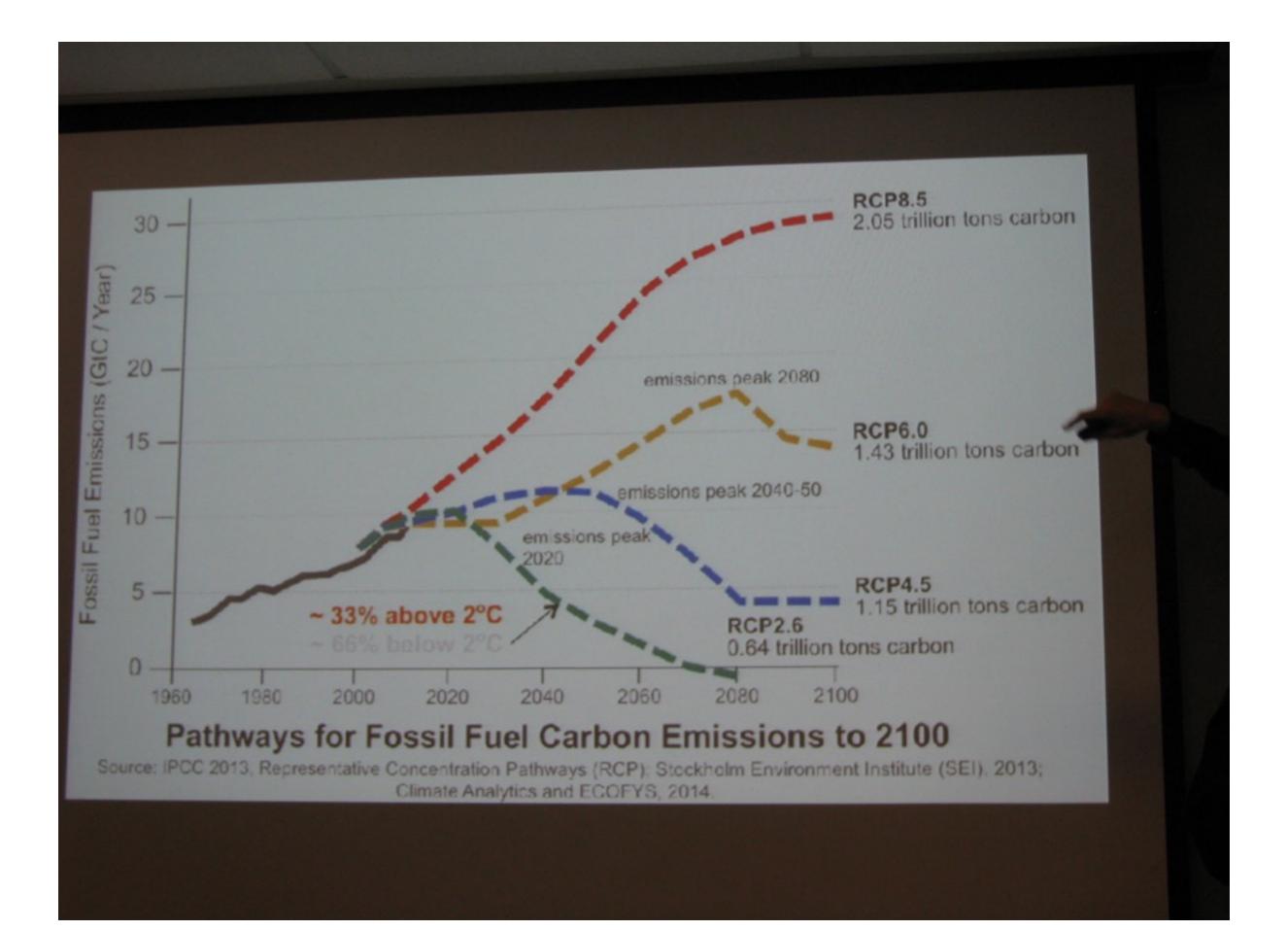
U.S. Electricity Consumption by Sector

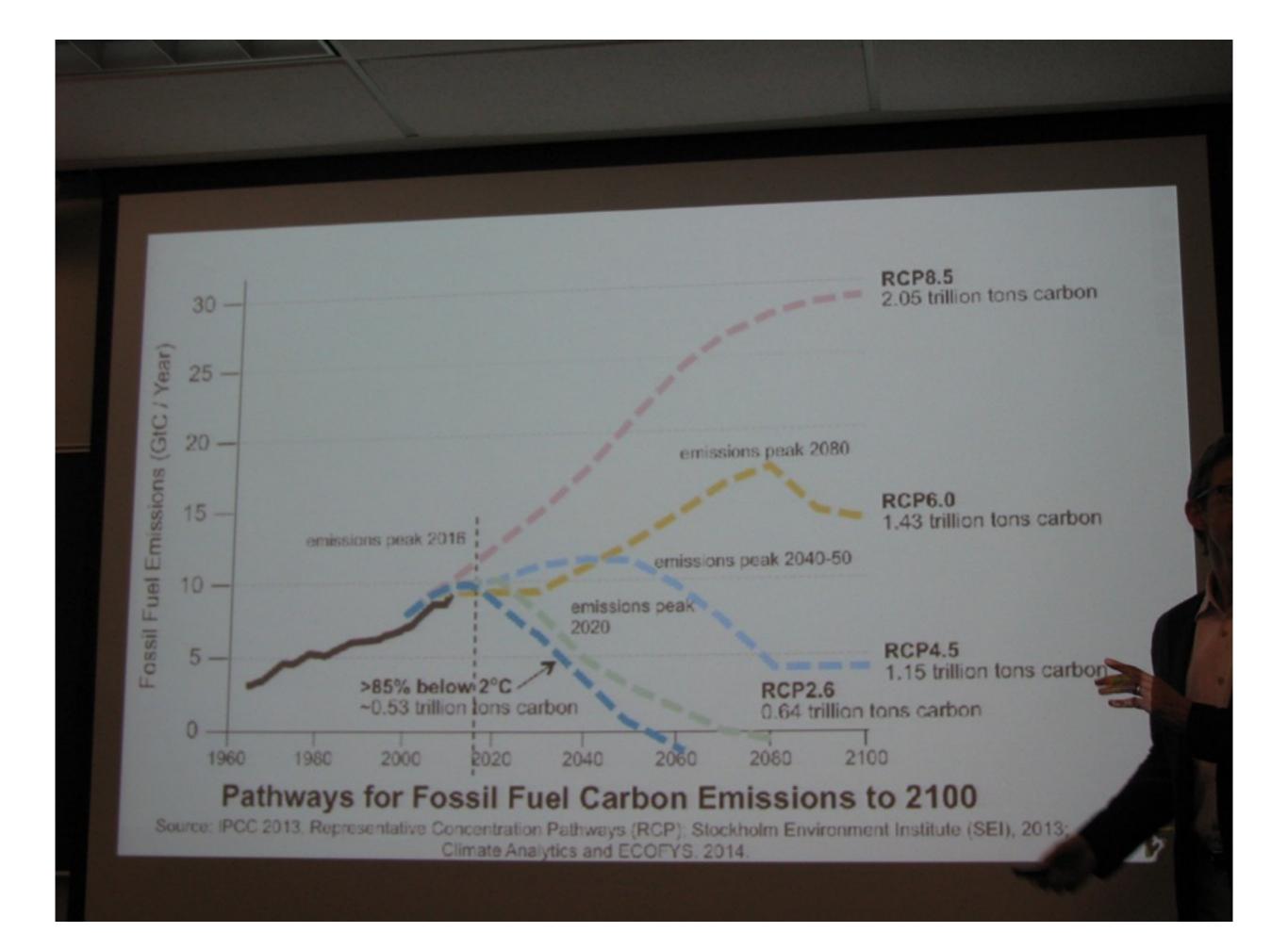
Source: ©2011 2030, Inc. / Architecture 2030. All Rights Reserved. Data Source: U.S. Energy Information Administration (2011).

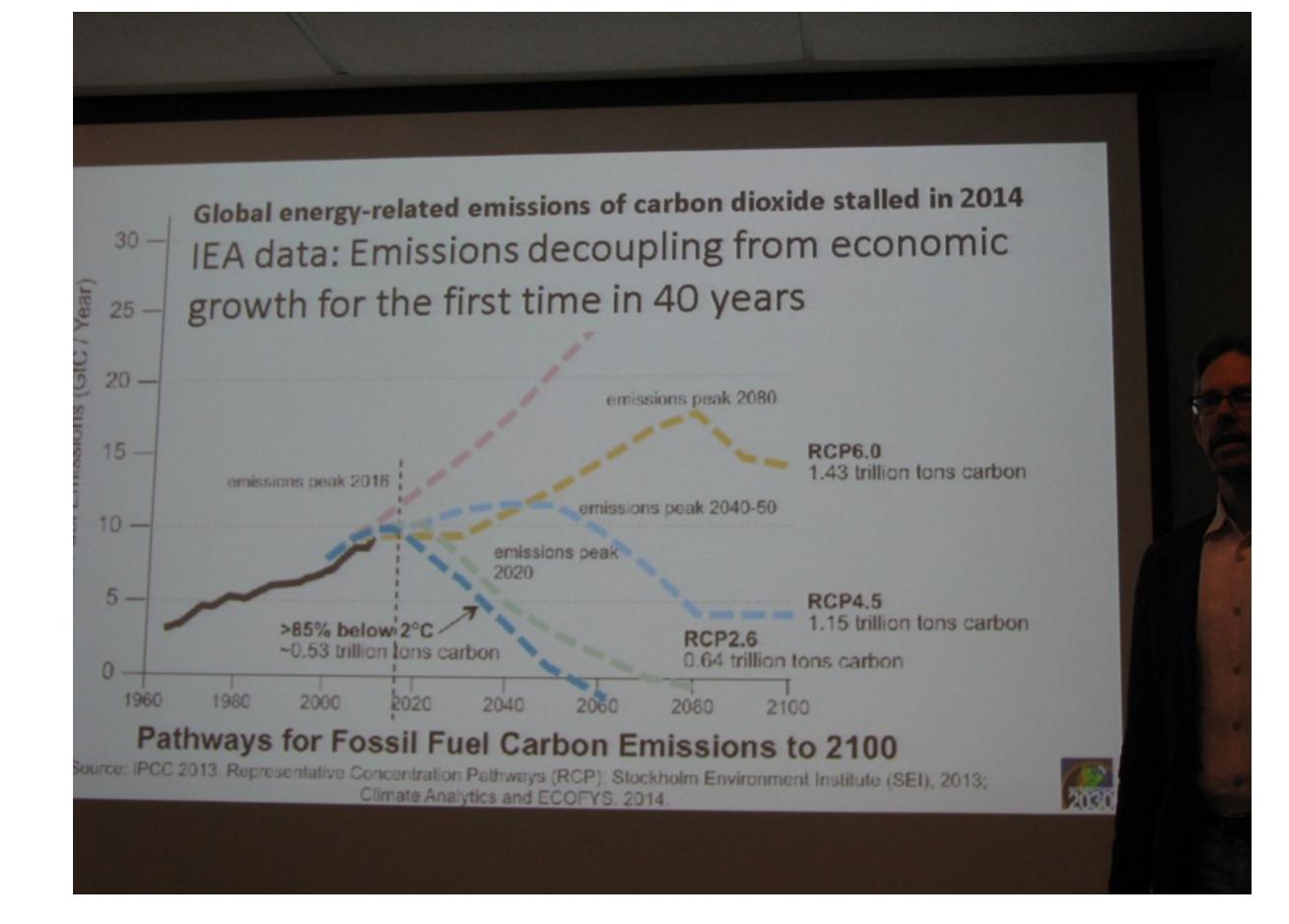


Business As Usual









"When things aren't working the way they should be, you have the makings of a great design project." —Bruce Mau

An area equal to 60% of the entire building stock of the world,

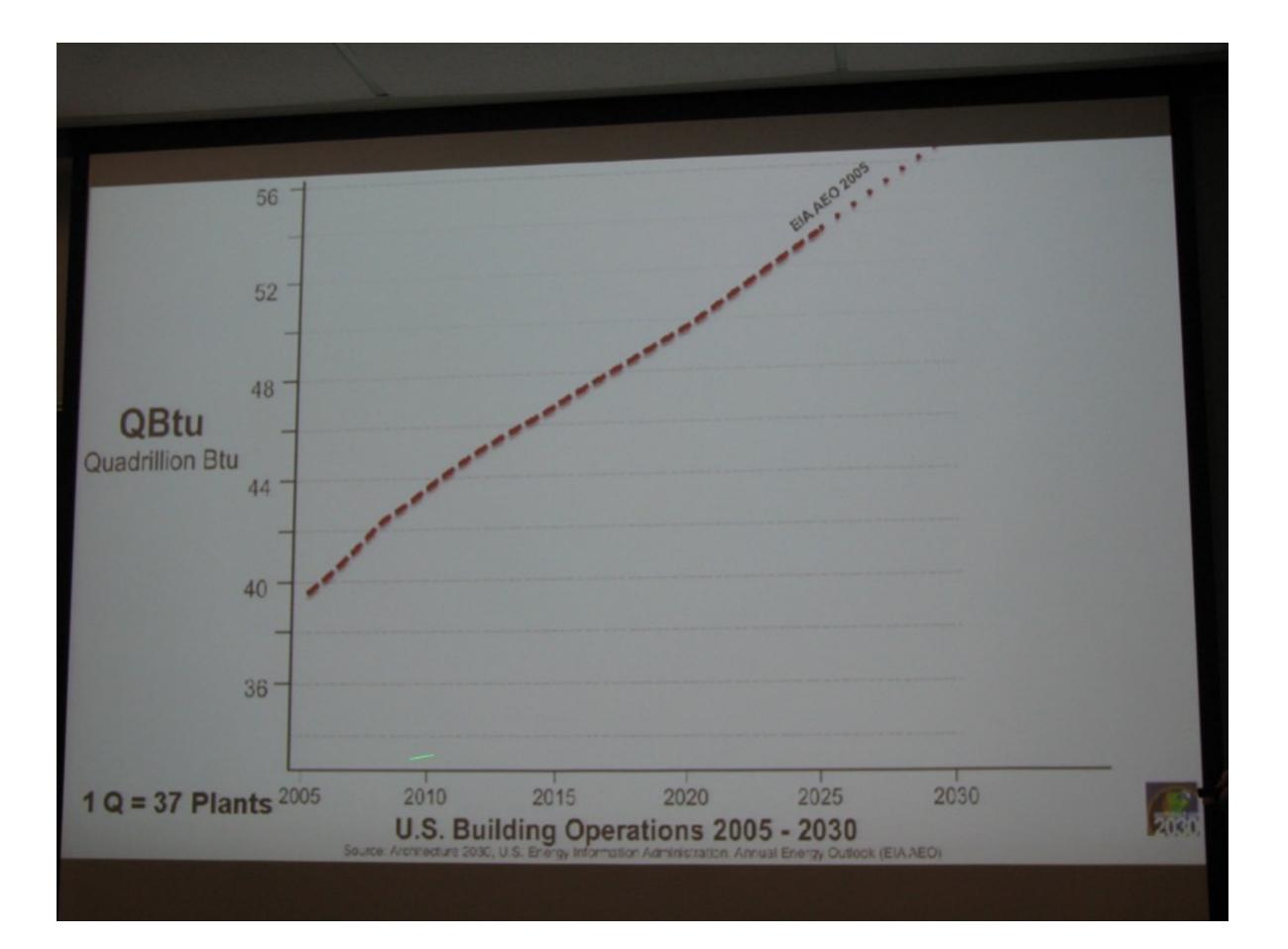
50%

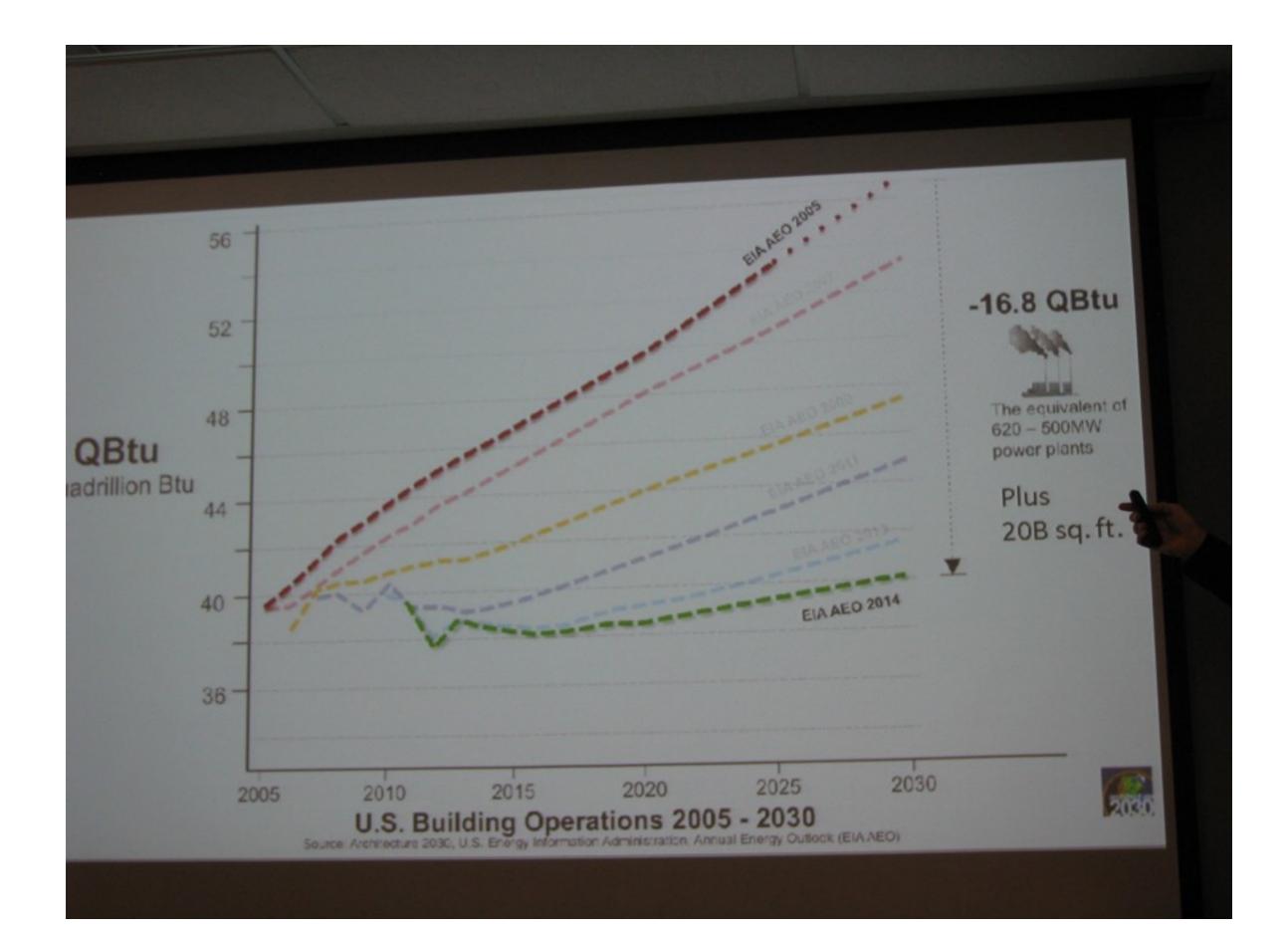
By 2030, over 80 billion m² (900 billion ft²) If we don't get it right, we lock in **Emissions patterns for 80 - 120 years**

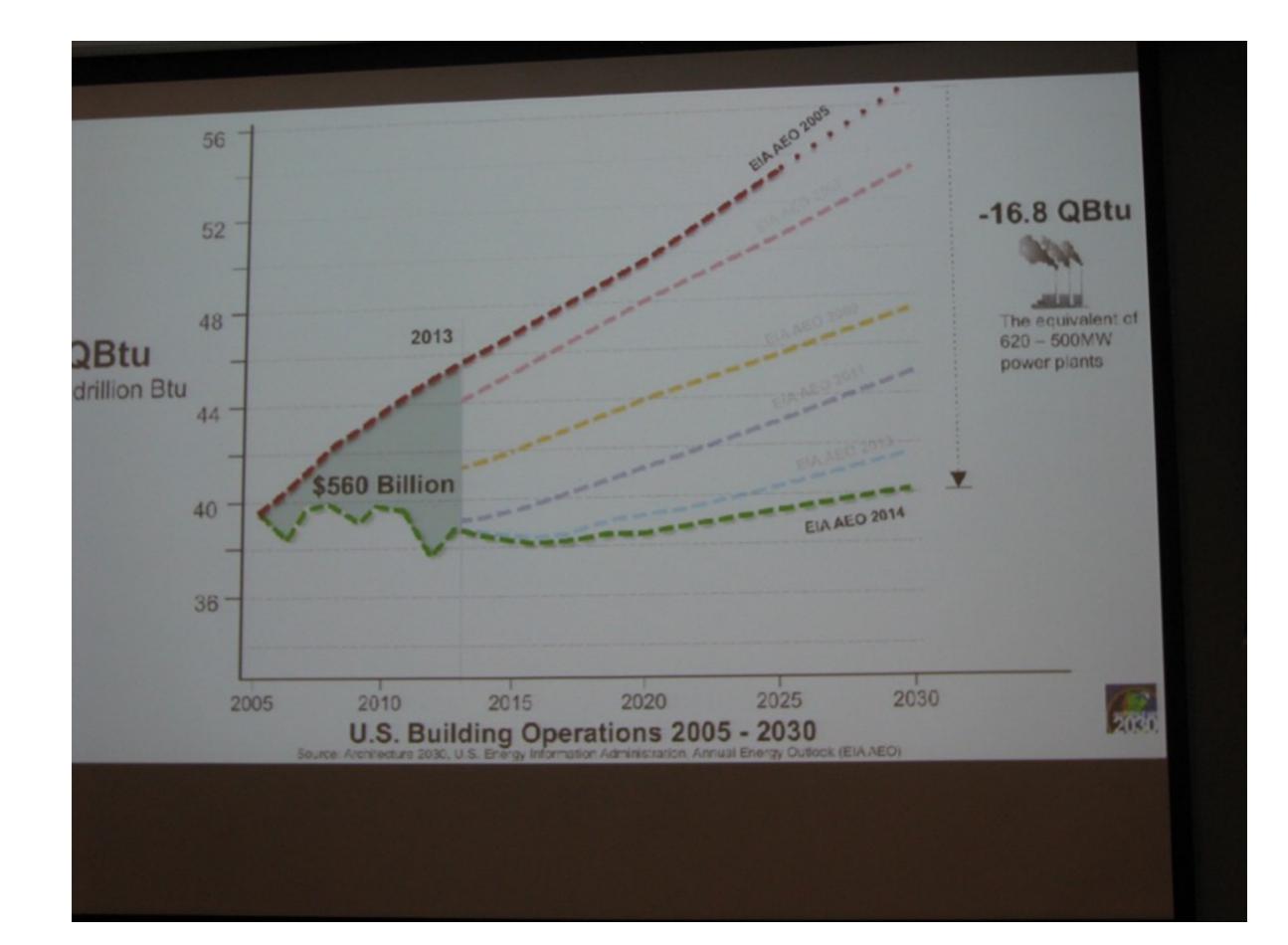
Sources

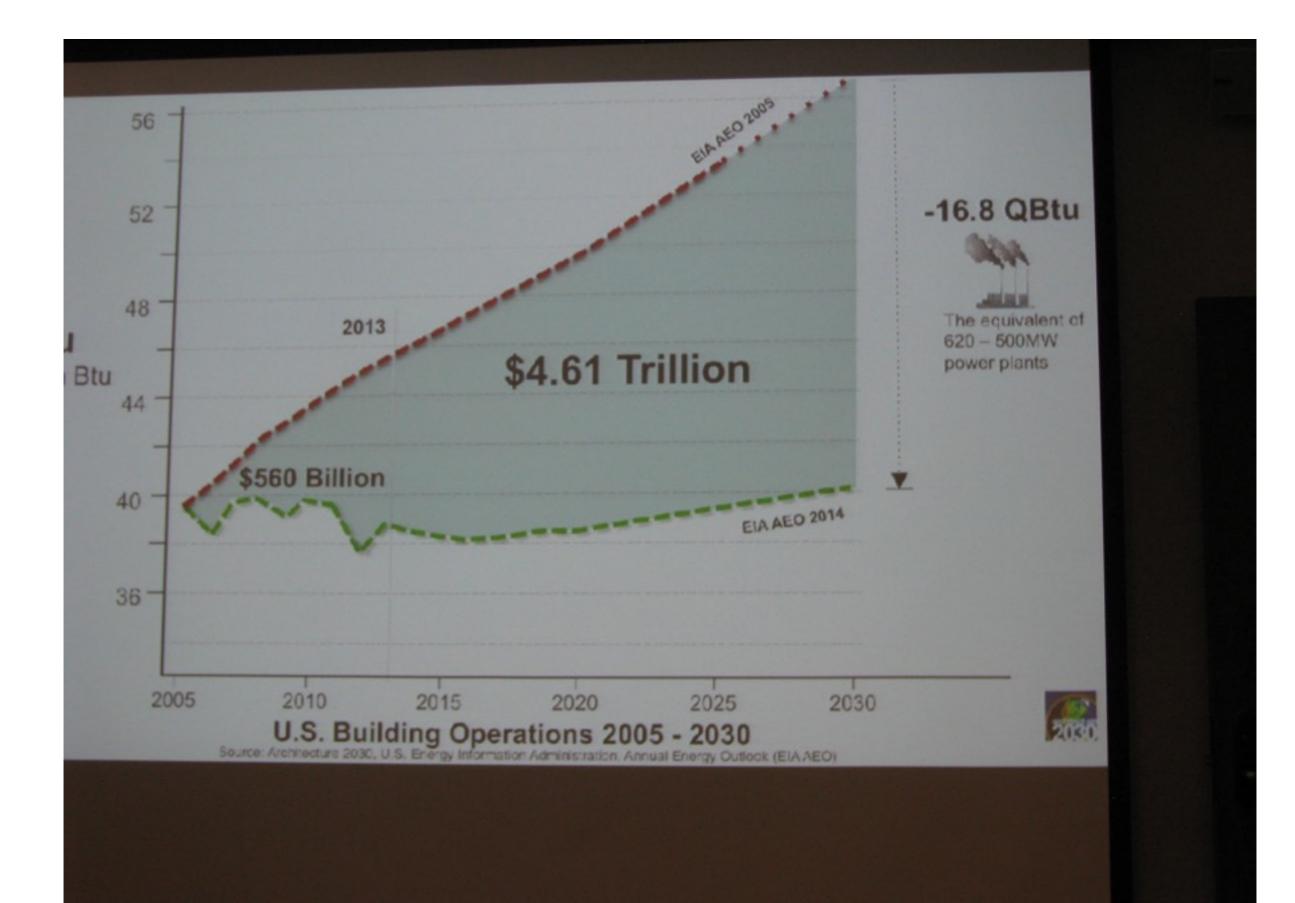
UN Habitat, Adapted from State of the World's Cities 2010/2011, McKinsey Global Institute

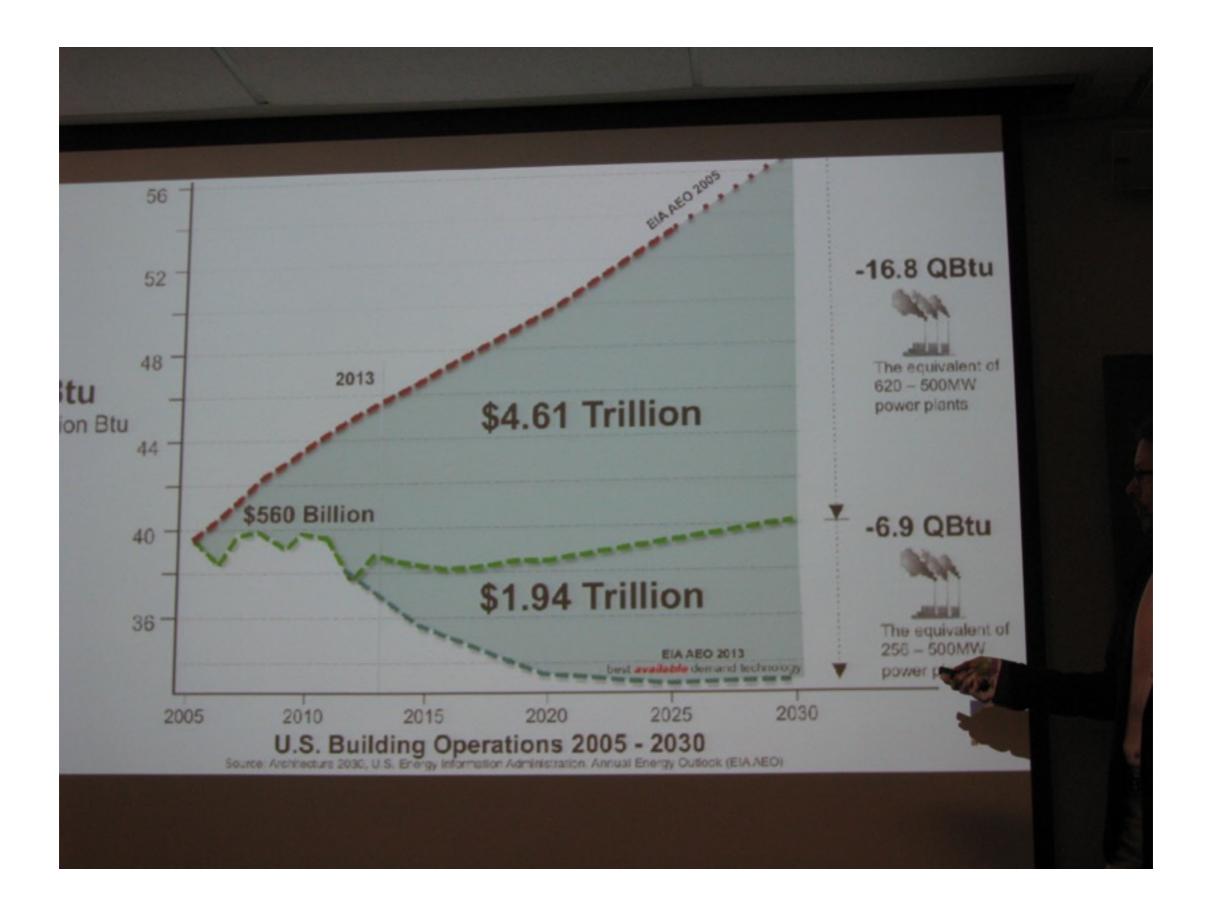


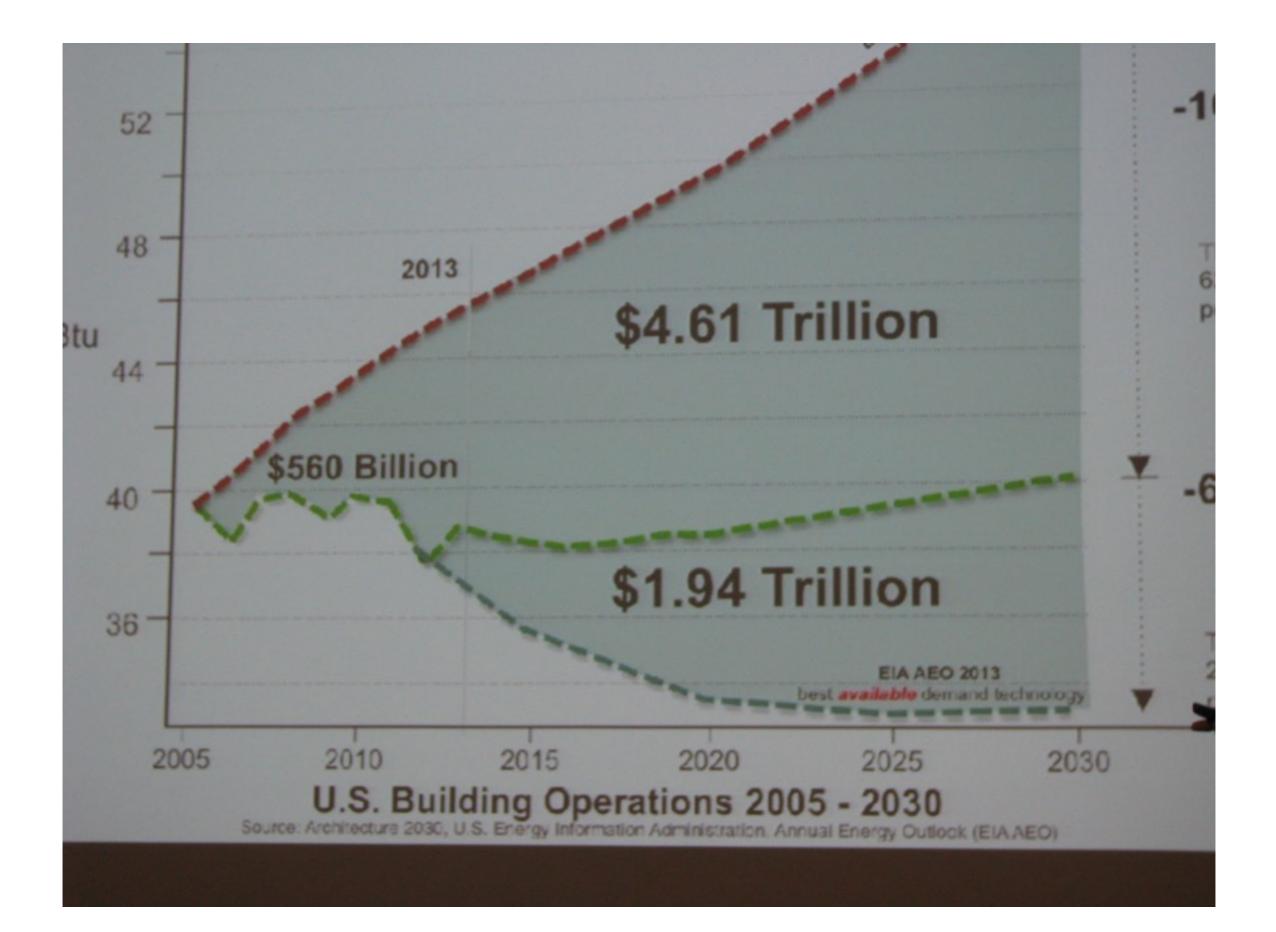


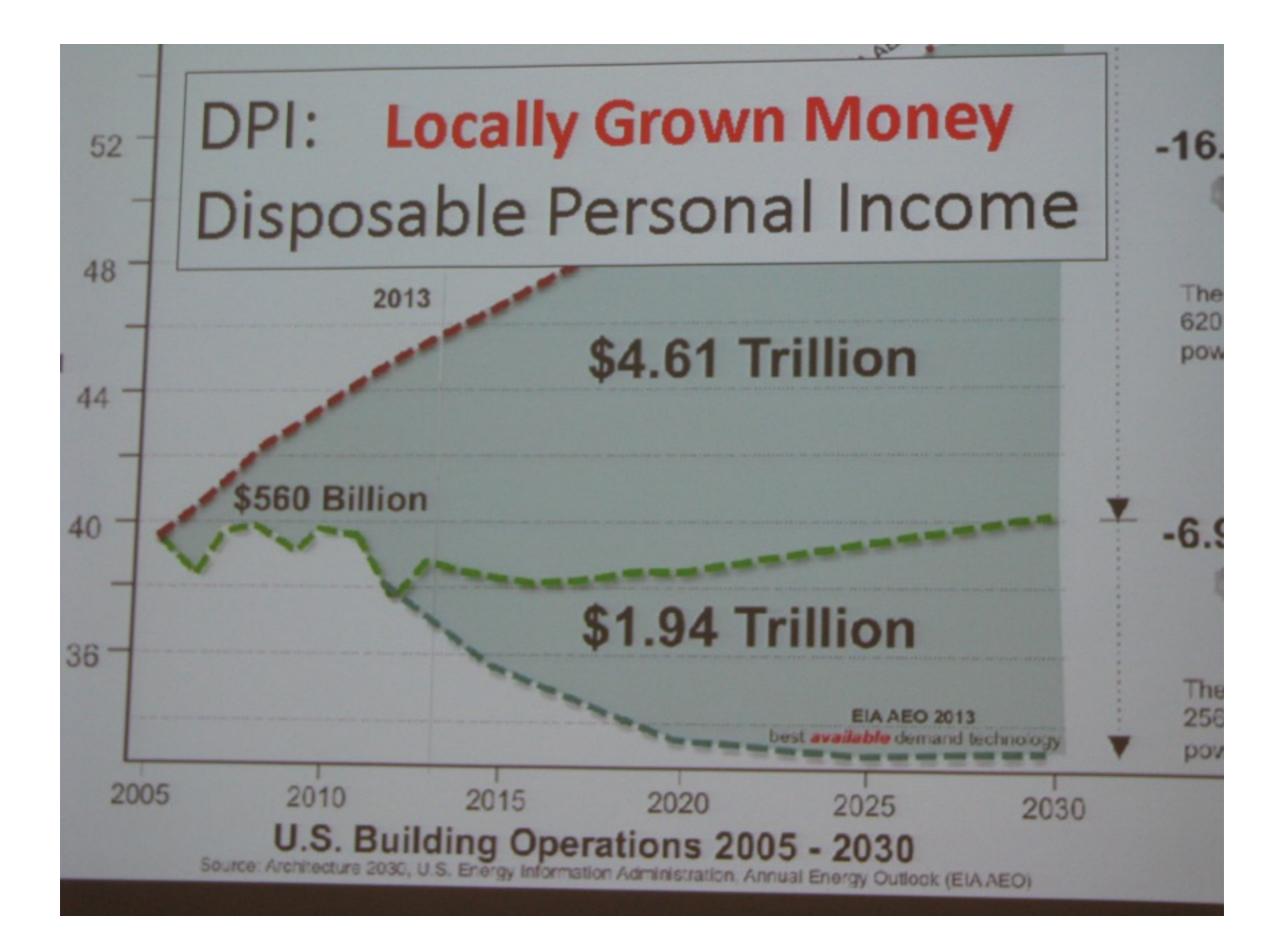


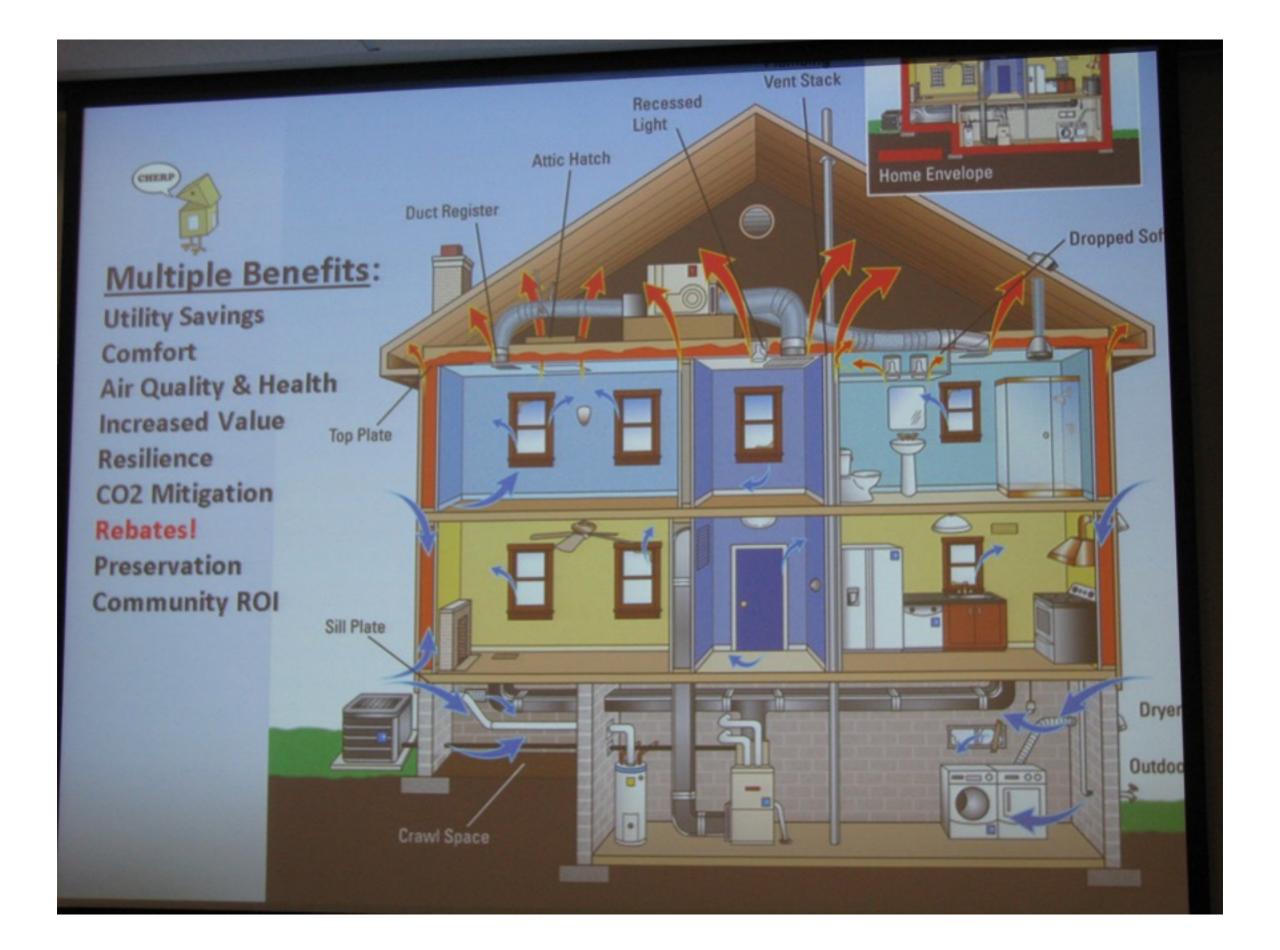


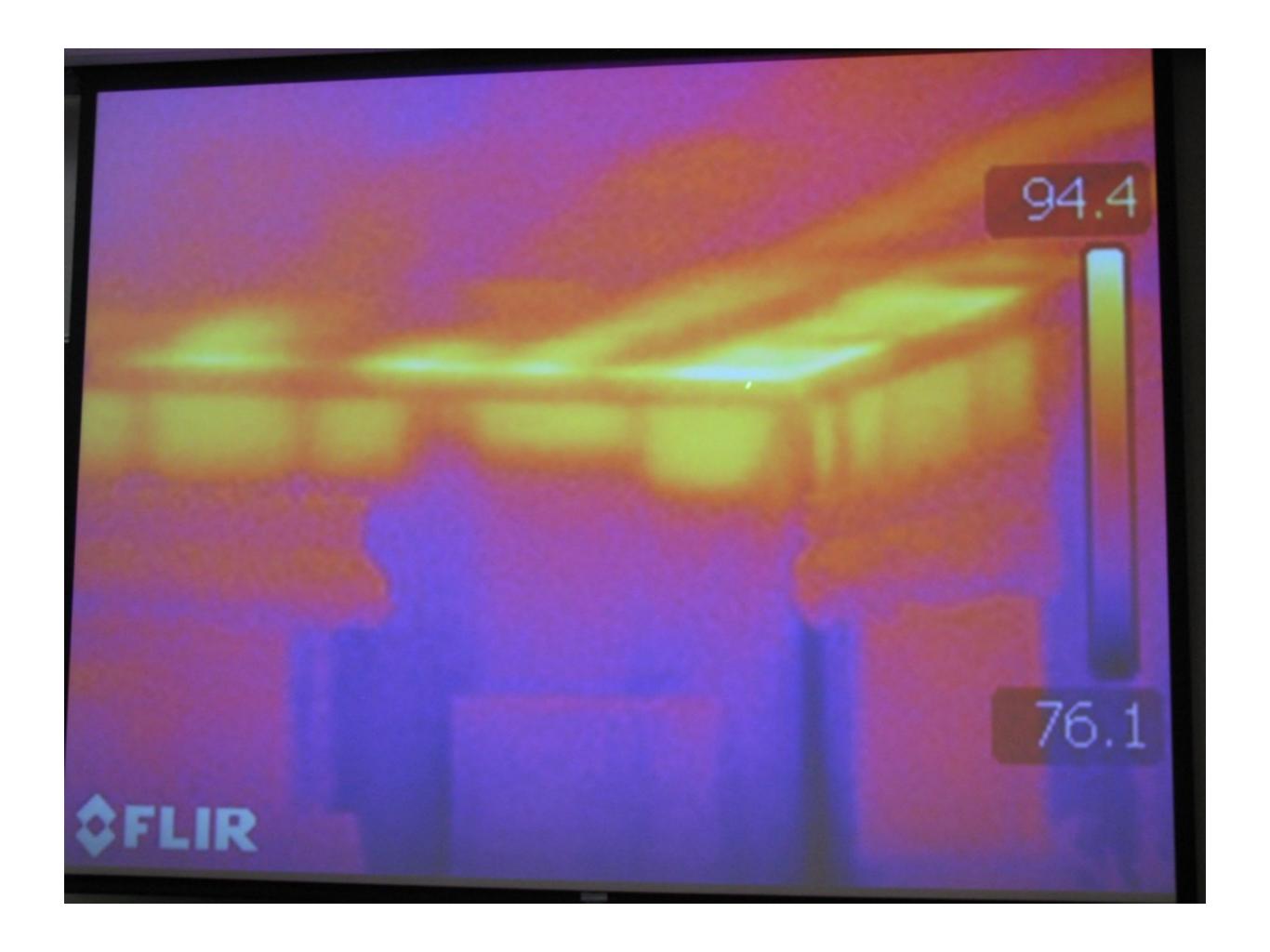




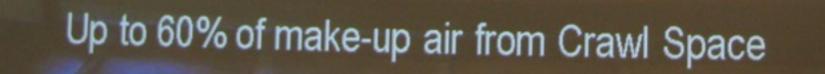












Crawl Space: sealed with moisture and air barrier



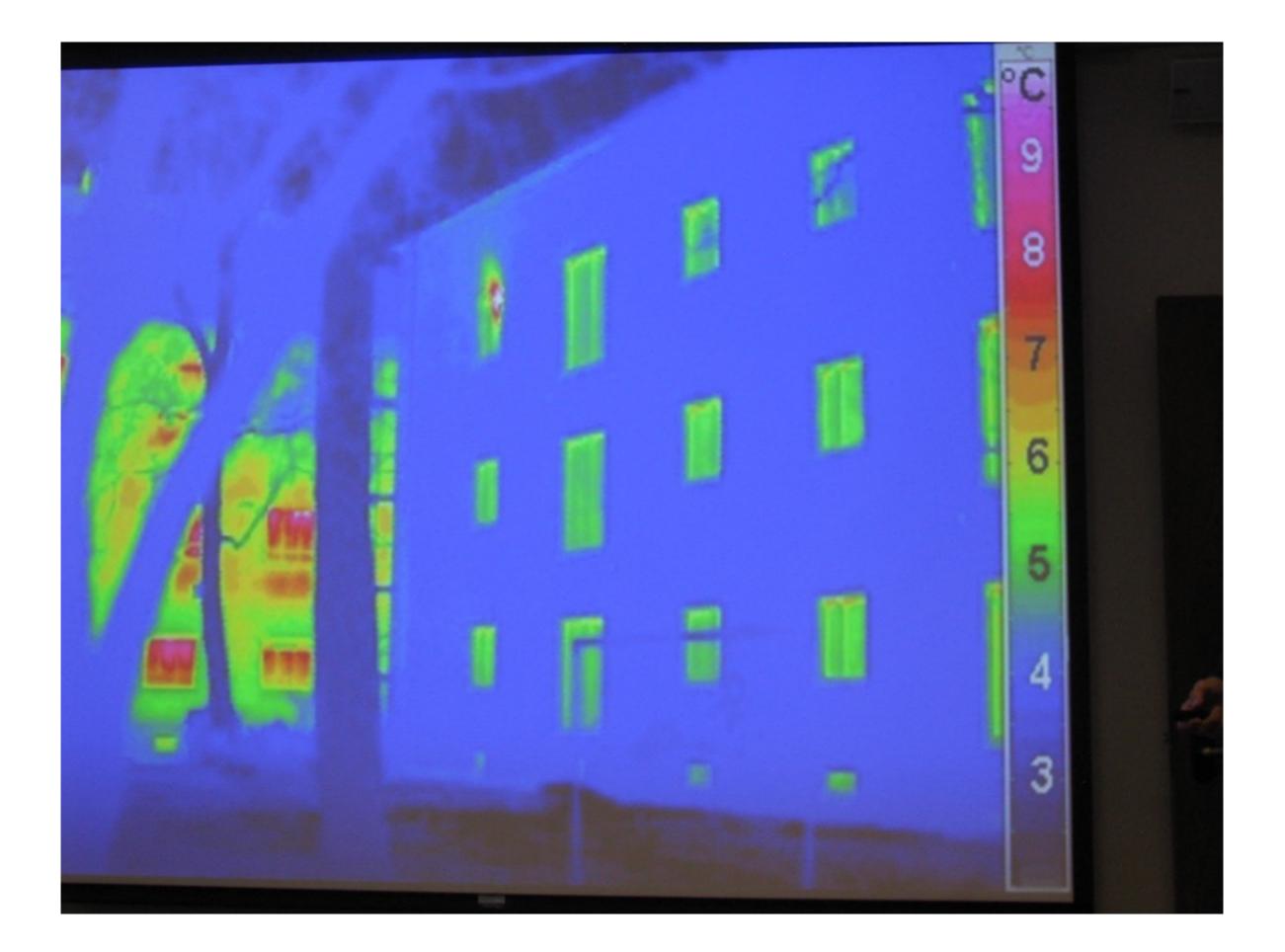


"His lungs are beautiful Jennifer. You are doing wonderfully.

- Ethan's Doctor

After Retrofit

Impacts due to Asthma	Ethan age 4	
	Pre	Post
Number of Emergency Room visits	1X Year	0
Number of hospitalizations	1X Year	0
Number of Unplanned Doctor's Visits	Weekly	0
Use of inhalers	2X Daily	1X Week
Days absent from school or work	2X Week	0
Night time awakenings	Frequent	Rare



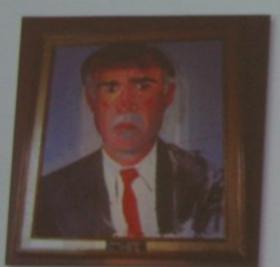
DPI for Community	To Date	Guai
	250 homes	1,300 homes
# of Retrofits Utility Costs saved over next 25 years	\$4,800,000	\$27,000,000
gregate Economic Growth over	\$13,400,000	\$75,600,000
ob-Years Created over next 25 years	308	1,739
b-Years per \$M invested (4 years)	14	20
abates received in Claremont	\$875,000	\$3,437,000
ollars invested in local Real Estate	\$3,400,000	\$19,000,000
ot including Solar) Icrease in Property Values	\$7,250,000	\$37,700,000
nes Green Point Rated	160	500
Homes with Solar Panels	400	1,300
ased comfort, durability, air y in their homes	500 people	2,600 CHER
laremont reach AB32 mandates	Yes	For sure

CHERP Return on Investment

We're from the Government and we're here to help you



President Obama - DOE/EPA, U.S. Navy



Schwarzenegger - AB32

Jerry Brown

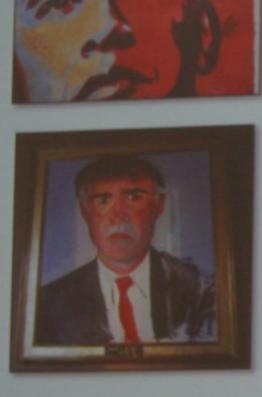
CEC & CPUC



Eenergy
network
residents taking action
to save energy

Utilities & Counties Home Up

Rebates, Loans, Incentives, Programs



Schwarzenegger - AB32

Jerry Brown

CEC & CPUC energy upgrad Utilities & Counties Home Upgrad

Rebates, Loans, Incentives, Programs

ficiency offers a vast, untapped energy resource worth \$Trillion

Barriers to Market Transformation

Communities and Building Owners







Directors

Devon Hartman Joe Lyons **Ginny Routhe** Freeman Allen Chris Veirs Steven Llanusa Paul Minus John Jurewitz Scott Sternberg **Randy Lopez** Hal Nelson Kent Kernahan **Hovig Tchalian**

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Randall Lewis Susan Frank **Jack Frost Eric Garton Dick Haskell** Tom Helliwell **Carl Welty** Nazanin Zarkesh Sam Pedroza **Angela Bailey** Kathryn Dunn Sally Seven **Marilee Scaff** William Ascher

HUNDREDS OF VOLUNTEERS

Pilgrim Place Student Interns 50 Community Organizations

K-12 students and teachers 260 CHERPers

CHERF

EMONT ENERGY CHAI







