

# How Can We Work Together, Part 2

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**Southwest Energy Efficiency Project**

# Southwest Energy Efficiency Project (SWEET)

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- ❑ **Public interest initiative promoting greater energy efficiency in AZ, CO, NV, NM, UT, and WY**
- ❑ **Founded in 2001, based in Boulder, CO**
- ❑ **SWEET engages in policy analysis and advocacy, and collaborates with utilities, state agencies, environmental groups, universities, and others to fill the need for energy efficiency programs in the Southwest**
- ❑ **SWEET began as a joint project of the American Council for an Energy-Efficient Economy and the Land and Water Fund of the Rockies; now an independent 501(C)3.**
- ❑ **Initial funding has been provided by the Energy Foundation, Hewlett Foundation, U.S. Department of Energy, and the U.S. Environmental Protection Agency**

# Some global energy numbers

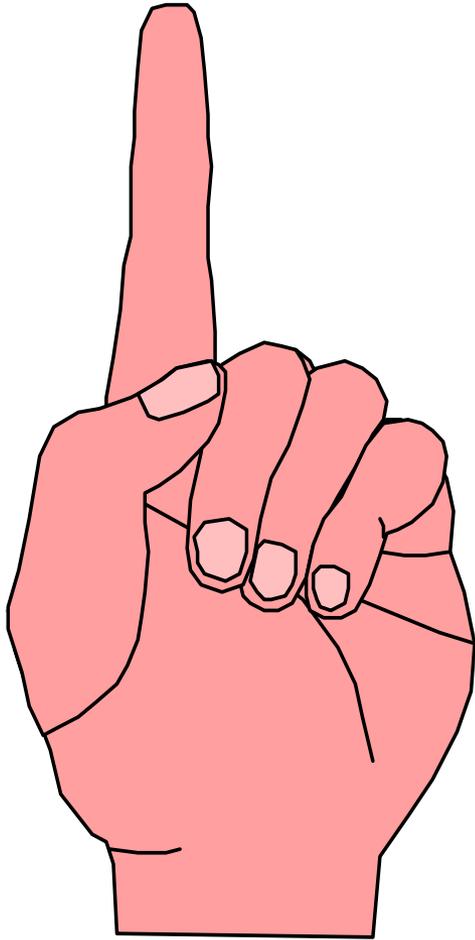
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- Worldwide annual energy consumption: 368 Quads, 368 billion person years equivalent
- US annual consumption in 2002: 100 Quads, 100 billion person years of labor equivalent



# We're number one!

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- With less than 5 percent of the world's population, the US consumes about 1/4 of the world's energy and produces almost 1/2 of the world's garbage.

# What we really care about

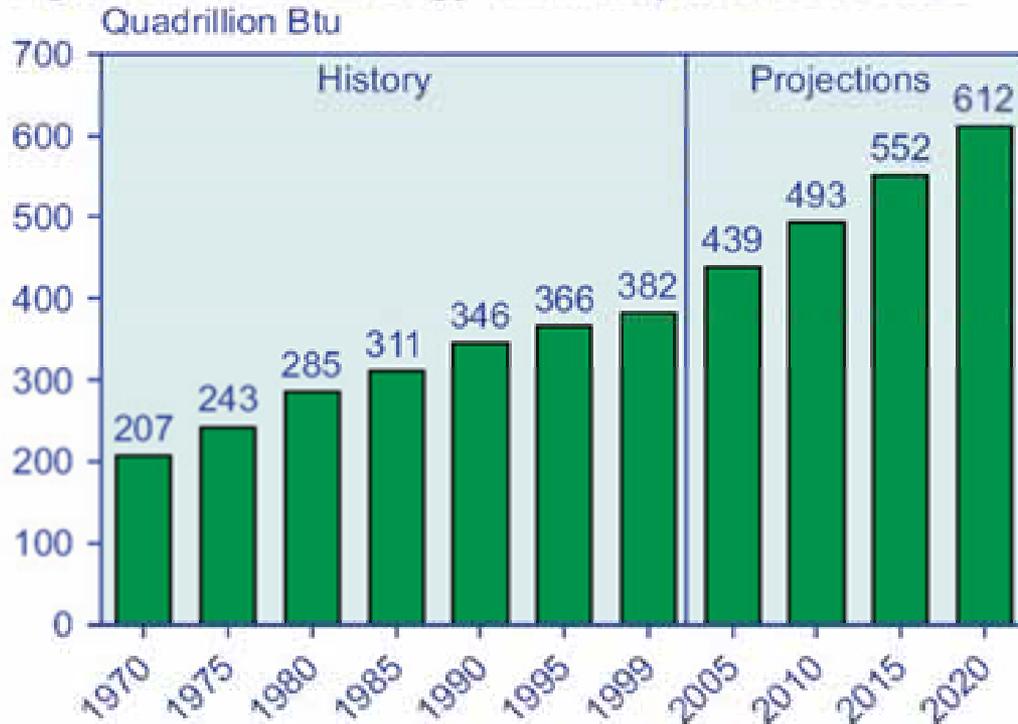
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- Helping new buildings to be as energy efficient as practical, given that our planet is finite, in deep trouble, and that our wisdom is limited.

Yes, our wisdom is severely limited, but even people who wear silly hats know that exponential growth cannot be sustained

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**Figure 2. World Energy Consumption, 1970-2020**



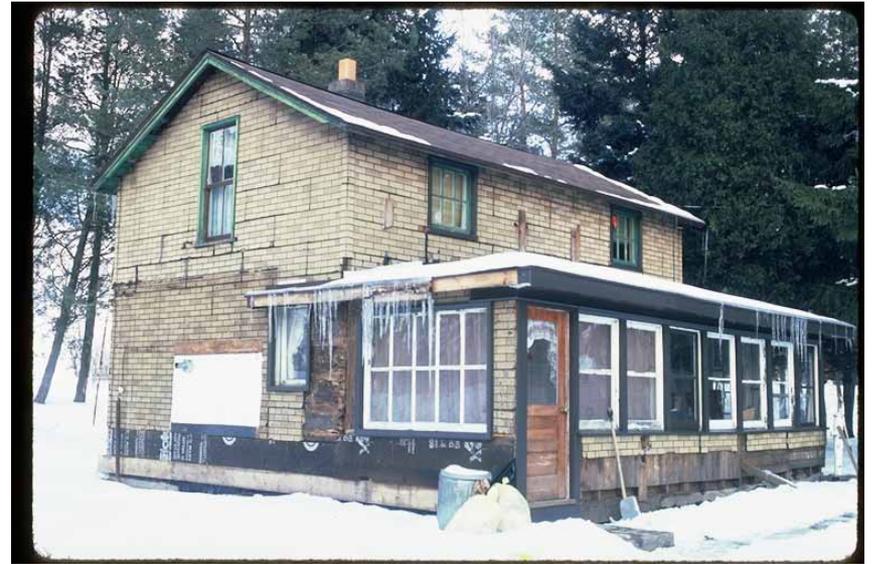
# What else we really care about

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- Using Codes and other mechanisms to limit the number of crummy buildings—and even retrofit some of the old ones.

# Yes, we need to start thinking about retrofit! Energy Star Retrofit?!

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# From principles to practices

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- Use the discussion, training, and implementation of codes to raise awareness about designing, building, and commissioning excellent new buildings--and verifying that they work

# So how do we go about it?

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- ❑ We study what's going on and assess need as a function of jurisdiction. (Follow the action; the potential for savings follows waste)
- ❑ Look for angles to lend a hand in forming policy, lobbying for adoption, sharing practical wisdom, training codes people, training builders, training trainers
- ❑ Evaluate the effects of efforts to improve; find what works and what doesn't; make mid-course corrections

# INCREASING ENERGY EFFICIENCY IN NEW BUILDINGS IN THE SOUTHWEST: The Role of Energy Codes and other Efforts

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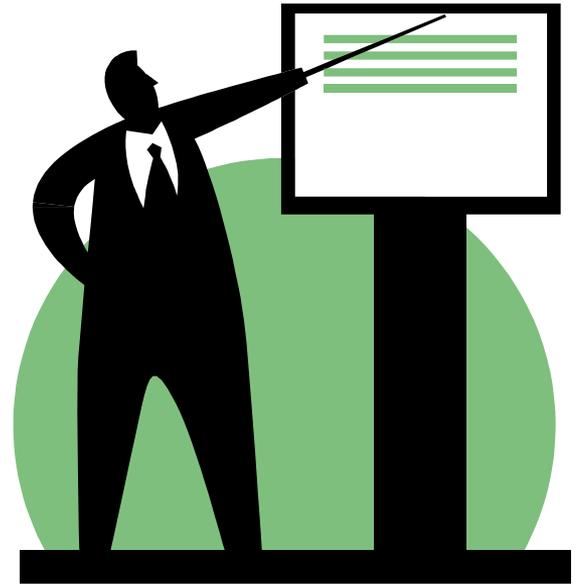
Report to be available soon for  
downloading from SWEEP's web site  
[www.swenergy.org](http://www.swenergy.org)

Identifies areas of need, nifty things  
that are already happening (not all of  
which overlap)

# Animated training has made a big difference in Arizona, Nevada

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- ❑ All stars like Mark LaLiberte, Joe Lstiberek, John Tooley have preached the gospel of energy efficiency to builders and others—why and how
- ❑ In spite of the absence of state-wide codes in AZ, there are more Energy Star homes there than any other state.



# Fast changes in Las Vegas

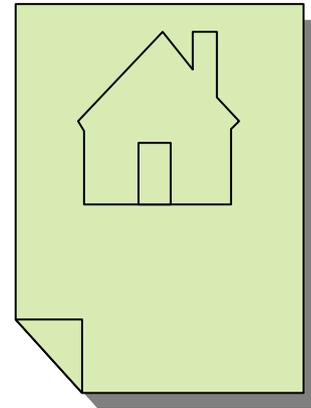
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- ❑ Summer before last, there was a big push to promote Building America and Energy Star in new homes in the Las Vegas area
- ❑ The brands were co-mingled and the number of Energy Star certified builders increased by an order of magnitude
- ❑ The buying public is now aware of energy issues
- ❑ New housing stock a lot better
- ❑ We need to emulate the best features of the program elsewhere.

# Dare to be daring

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- ❑ Communities in CO and AZ have begun to integrate green building ideas and current I codes
- ❑ Embracing these ideas not necessarily inconsistent with current ideas on keeping things simple
- ❑ Seek simplicity—but distrust it



# Advice to budding entrepreneurs from an old hand:

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- ❑ Never quit
- ❑ Never ever quit
- ❑ Cash is more important than your mother!

# Who has the money to do the work that needs to be done?

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- ❑ Federal government is strapped
- ❑ So are most state governments (excepting Wyoming, where extraction taxes save the day)
- ❑ Utilities!

# Lots of arguments

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- ❑ Codes are remarkably inexpensive ways to bring up the quality of the building stock, but they aren't magic
- ❑ Training is necessary; positive attitudes need to be developed by all parties
- ❑ Utilities can play a key role in promoting energy efficiency, codes and standards
- ❑ Will help establish their brand and more; TEP uses its program to shave peaks in the summer and fill in valleys in the winter via heat pumps

# Tucson utilities' efficiency programs for new homes

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# Drawing circles

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He drew a circle that shut me out  
Heretic, rebel, a thing to flout  
But love and I had the wit to win;  
We drew a circle that took him in.

# Let us work together!

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- ❑ Let's share ideas, success stories, training material (BCAP is taking the lead in the latter)
- ❑ Let's work together to secure commitment of policy makers, utilities, the building community
- ❑ Let's keep QC high by evaluating efforts, building on strengths, and learning to circumnavigate pot holes!



# What's your view?

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