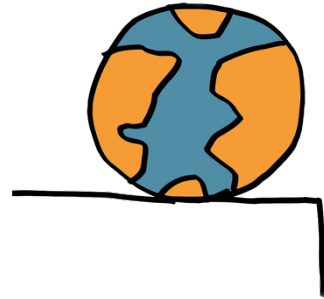


SEIZING AN ALTERNATIVE Toward an Ecological Civilization June 4-7, 2015

Section I: The Threatening Catastrophe: Responding Now



Notes from “Efficiency, The Most Important Form of Clean Energy: Retrofitting Buildings”

By Devon Hartman

COMMUNITY HOME ENERGY RETROFIT PROJECT

- * 130 million homes in U.S. in need of retrofit.
- * Buildings in U.S., in terms of overall energy use, produce 43.5% (Building Ops) and 5.6% (Construction & Materials)
- * IPCC Studies say: Architects all over the planet are taking building energy use very seriously
- * Last year - IEA says first time GHG emissions stopped growing
- * The problem: Buildings The solution: Buildings
- * 50% of energy of current buildings is wasted - based on current technology
- * \$19 Billion wasted to surface electronics that we leave on all night.
- * We imagine a new world where we build thermoses rather than cardboard boxes.
- * Those that live in homes up to current national standards say comfort level and inside air quality better
- * Tremendous benefit w/ insulation IF INSTALLED CORRECTLY
- * Of those not retrofitted correctly, 30% of air is leaking into attic or crawl space.
- * Navy set goal of eliminating 50% of energy use by 2020.
- * Energy efficiency is 25% of cost to replace power plant.
- * Claremont has done more retrofits per capita than any other city.
- * 20% of all energy in CA used to move water.