EERE Progress

Merit Review

Select the right projects through rigorous independent merit review

In-Progress Peer Review

- Ensure that these projects are being done right
- Evaluation of Impact of In-Progress Peer Review: Hydrogen Program--\$27M/\$1.8M

Stage-Gate Review

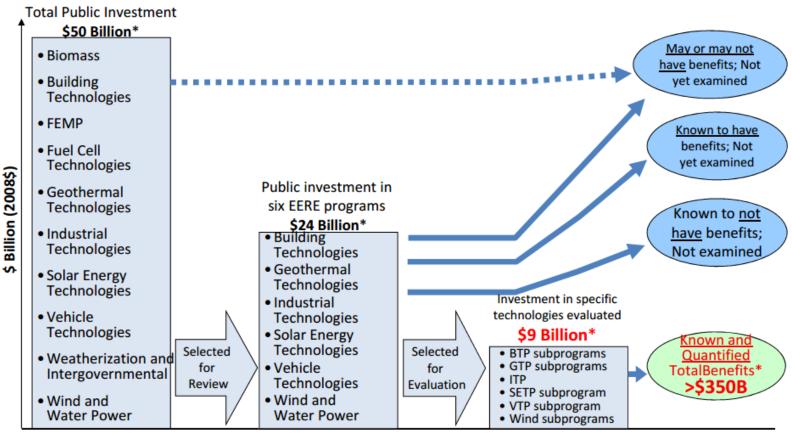
Graduation, Termination, perhaps further Gestation

Impact Evaluations:

- Completed more than 20 impact evaluation studies since 2008
- Completed 5 knowledge diffusion impact studies
- More than 90% of DOE's retrospective impact evaluations conducted since 2008 have been done by EERE. Several EERE program evaluation resource guides have been made available to Federal Evaluators (Government-wide) by GAO.
- http://www1.eere.energy.gov/ba/pba/performance_evaluation.html
- http://www1.eere.energy.gov/analysis/pe_plans_reports.html



Economic returns analyzed to date



a All dollars are expressed in 2008 inflation-adjusted dollars, not discounted.

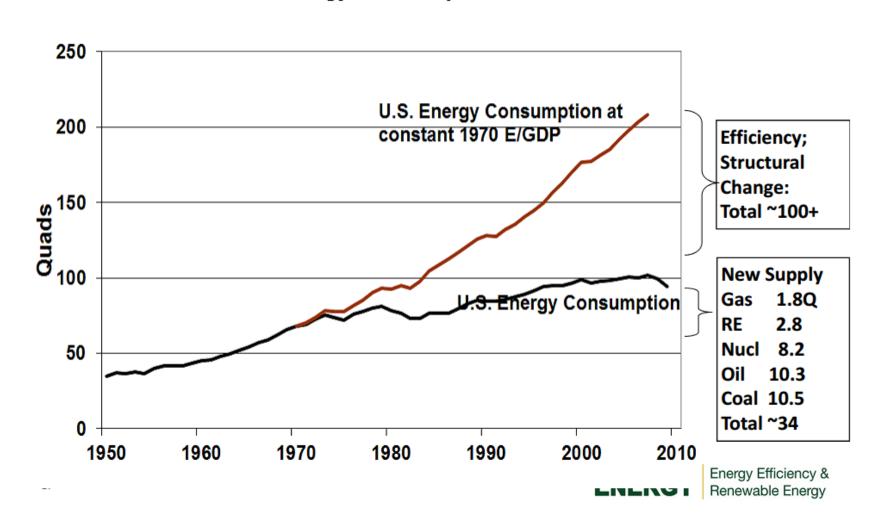


b \$326B net benefits = \$350B total benefits - \$24 investment in six programs.

^{*} Preliminary

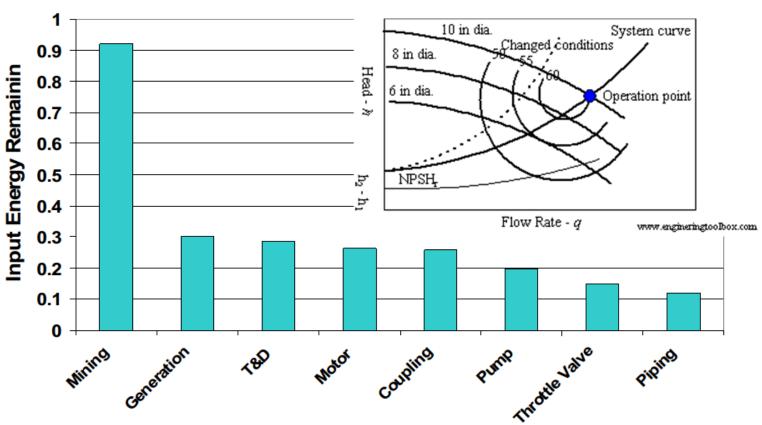
Energy Efficiency: 1970-2010

U.S. Energy Consumption



End-use Efficiency Upstream Leverage

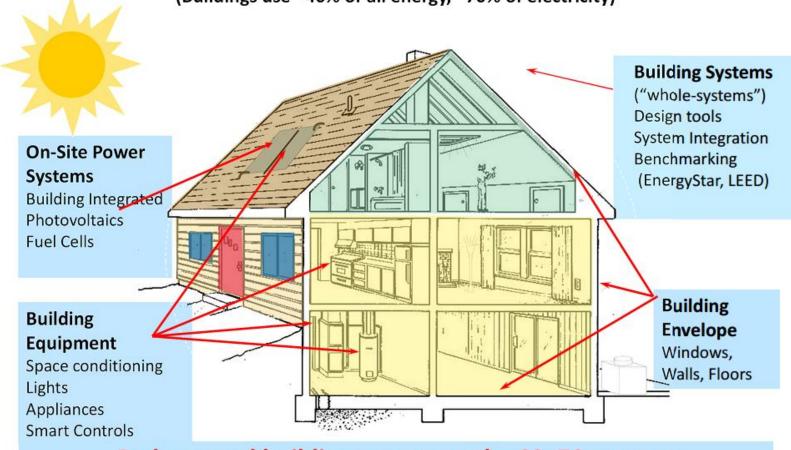
Motor Drive System Efficiency



Reducing energy loss in end-use systems has large leverage upstream!

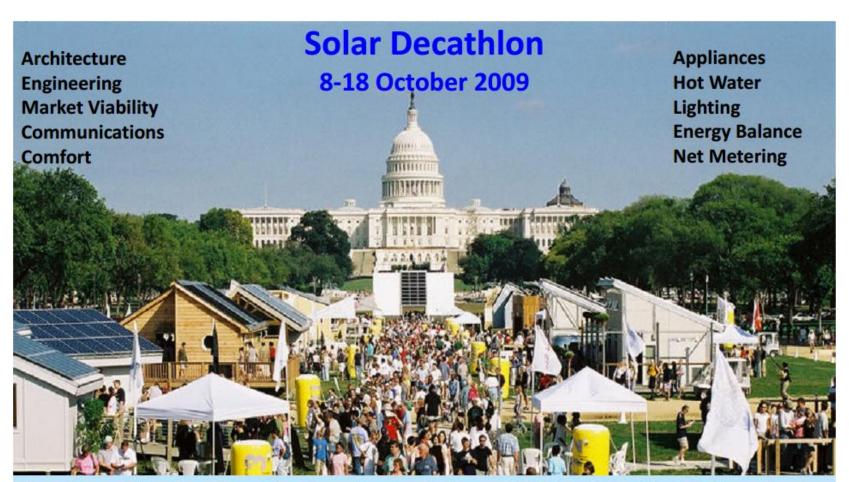
Low-Energy Buildings

(Buildings use ~40% of all energy, ~70% of electricity)



Reduce total building energy use by 60-70 percent

Highly efficient, cost-effective solid-state lighting technologies, advanced windows and space heating and cooling technologies.



Cornell; Iowa State; Penn State; Rice; Team Alberta (U. Calgary, SAIT Polytechnic, Alberta College, Mount Royal College); Team Boston (Boston Architectural College, Tufts); Team California (Santa Clara U., California College of Arts); Team Missouri (Missouri S&T, U. Missouri); Team Ontario/BC (U. Waterloo, Ryerson, Simon Fraser); Technische Universitat Darmstadt; Universidad Politecnica de Madrid; Ohio State; U. Arizona; U. Puerto Rico; U. Illinois-Urbana; U. Kentucky; U. Louisiana-Lafayette; U. Minnesota; U. Wisconsin-Milwaukee; Virginia Tech.