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help with research Inbox X

Trenlin Hubbert hello prof. Grondzik, i was instructed by prof. Kendall to Jun 4 (6 days ago)

Grondzik, Walter T. Can you meet me after class on Tuesday (around 9 Jun 4 (6 days ago)

Trenlin Hubbert see you after class on tuesday. thank you for the oport Jun 4 (6 days ago)

Grondzik, Walter T. to me [show details](#) 3:20 PM (23 hours ago) | [Reply](#) |

Hi:

Here is a press release for the DOE energy simulations we discussed:

DOE, working with three national laboratories, has developed commercial building benchmark models, which are complete descriptions of buildings for whole building energy analysis using the EnergyPlus simulation program. There are 16 building types, representing approximately 70% of commercial buildings in the U.S., in each of 16 locations, representing all U.S. climate zones. Currently, new construction benchmarks, based on ASHRAE Standard 90.1, are available comprised of an EnergyPlus input file (.idf), a file showing EnergyPlus simulation results (.html), a scorecard that summarizes the inputs and results for each location (.pdf), and the EnergyPlus weather file (.epw). The benchmarks can either be downloaded by building type or by location from <http://www.eere.energy.gov/buildings/highperformance/benchmark.html>. — DOE Commercial Building Team

The idea was, for building types of general interest (schools, offices,) to use the simulation results files to show how a currently code-compliant building will generally perform (where the energy goes) in each of the climate zones. I have not yet looked at the "scorecards" -- but they may tell some (or all) of the story.

The research question for me is: can we take this DOE work (16 by 16 computer runs) and use it to help a designer focus his/her early design efforts. In, say, a small office is lighting the biggest energy user in every climate (suggesting a focus on daylighting as an early strategy). What would be the best way to convey this information (in tables, graphically, ...)?

Dig in, and let me know what turns up.

Thanks,

Walter

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