BLESSING AND A CURSE
Designing Buildings to a Target EUI

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ENGINEER PUSHING FOR ENERGY EFFICIENCY...
INCLUDING TARGET EUI IN CONTRACTS...

Drives innovation and conversation
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Challenges – and adds risk to – the process
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Drives innovation and conversation

Challenges – and adds risk to – the process

Shows integration of energy decisions
INCLUDING TARGET EUI IN CONTRACTS...

Creates conflict

Does not work well with the “way we usually do things”

Highlights that most people do not care about energy
ADDED CONFLICT

BUDGET

SCHEDULE

PROGRAM
COST OF CHANGE

TIME

REQUIREMENTS  ANALYSIS & DESIGN  BIDDING  SUBMITTALS  CONSTRUCTION

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PUBLIC DREAD AND ACTUAL DEATHS IN RELATION TO WORLD ENERGY PRODUCTION
WAY WE DO THINGS

FEELING COLD

JUST RIGHT

FEELING HOT

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ENERGY KNOWLEDGE

SETTING EUI TARGET

PLANNING FOR EUI TARGET

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SO, HOW DOES IT WORK?

Whether or not a space is "comfortable" depends on more than just air temperature - even though that's the only thing that typical heating and cooling systems can affect. The surface temperatures of walls, ceilings, windows and floors also has a big impact on perceived "comfort" - even at the same air temperature!

This is the reason that you might feel more comfortable sitting away from a large window inside a café on a cold winter night, under the shade of an umbrella on a hot and sunny summer afternoon at the beach, or beneath the heating lamps while waiting for the train on an L platform on a chilly and windy autumn evening. In all of these cases, the air temperature is identical regardless of where you sit... but you can increase your comfort by changing your proximity to hot and cold surfaces!
INCLUDING TARGET EUI IN CONTRACTS...

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Highlights that most people do not care about energy
DESIGNING WITH TARGET EUI...

Drive the conversation early...do not wait!

Analyze the process changes early and get buy in.

Educate everyone and perform sensitivity early.
DESIGNING WITH TARGET EUI...

Drive the conversation *early* ...do not wait!

Analyze the process changes *early* and get buy in.

Educate everyone and perform sensitivity *early*.