

# ONE CLEAR

## ENGINEERED SAVINGS VALIDATION

M&V activities abound in the energy savings performance contracting (ESPC) industry as private and federal customers require documentation to demonstrate savings guarantees have been met. One drawback however to M&V activities is in that they are limited to post-purchase retrofits.

**"M&V makes sense where contractor and client have a guaranteed savings agreement but what about more conventional proof/purchase agreements?"**

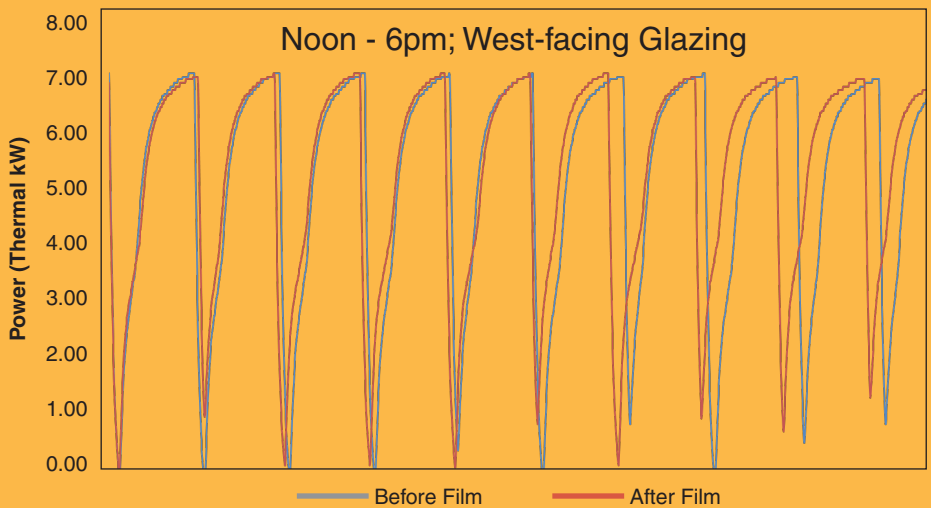
**"... dataloggers measuring center-of-room air temperature can in no way be correlated to cooling reduction,"**

M&V makes sense where contractor and client have a guaranteed savings agreement but what about more conventional proof/purchase agreements? Can M&V protocols be leveraged to prove savings on a small scale - providing confidence in estimated savings prior to purchase? In essence, can M&V protocols be leveraged to confirm energy simulation results?

NGS pioneered the Engineered Savings Validation (ESV) for validating eQuest energy simulation results. NGS ESV protocols mirror the ESPC industry M&V protocols pertaining to Retrofit Isolation. Since dataloggers measuring center-of-room air temperature can in no way be correlated to cooling reduction, NGS ESV protocols measure actual cooling power (as in the case of PTACs) or a variable one degree of freedom away (as in constant-volume FCU air temperature below).

# PROOF OF SAVINGS PRIOR TO PURCHASE

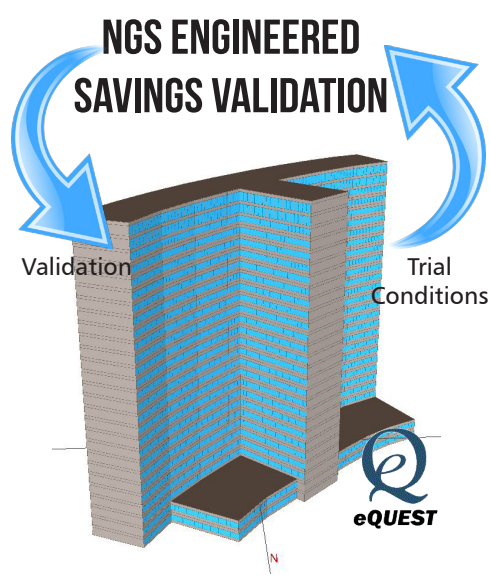
## EXAMPLE: FCU AIR TEMPERATURE CV FCU



# CHOICE



eQUEST VALIDATION



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