

RA * Retrofit Analyzer

Understand how your space
'U' and 'g' values really changed!
Measure the true impact of your energy retrofit

features

TIME 2 weeks, 1 before and 1 after completion of your energy retrofit

INTRUSION Zero, only a few wireless sensors are installed and removed after the assessment; no cabling required

COST Will depend on size of retrofitted space; ask for a quote

REQUIREMENTS Internet connectivity



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how it works?

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- ⊙ **RA is based on a few simple sensor readings like indoor and outdoor temperature/ humidity as well as air speed.** The principle is very simple. Measurements are taken only when the retrofitted space is in sleep mode, i.e., no energy is supplied or consumed. In these periods, we simply do not need to measure energy consumed because there is none! Nor is there any latent energy contributed to the space by human presence. Under building sleep hours, the thermal behavior of the building is most simple. Such hours are typically night hours and weekdays. Most buildings have such rest hours. However, in the case of 24h working buildings (e.g. hospitals) the methodology will need adaptation.
- ⊙ **You do not need to purchase any equipment at all.** Everything is installed and removed with no intrusion at all. Obviously, if you so wish, you may keep the monitoring system in place. You may even expand it to make it report (in the real time) also on other building parameters (energy, flow, CO2, water temperature, etc.) of interest to you. You can see examples of such **monitoring dashboards** in www.buildingwarden.com.
- ⊙ **RA inherently adjusts for different weather conditions.** This is why only a two week data collection protocol is required. RA can also adjust for different indoor conditions (e.g. thermostat setting) or different building/ space occupancy (headcount). Because of these adjustments, RA comes in various setups. Some short information will be required to suggest the best, to your case, setup.
- ⊙ **RA produces a detailed report on the savings** achieved by your energy retrofit. You can see samples of these **savings' reports** in www.buildingwarden.com.