



Save time and money getting critical insights into energy and cost savings



LIBRARY CASE STUDY



SAVING ENERGY & OPERATIONAL CARBON

15,000 sf library with steel stud stucco & packaged air-handling unit assessed incremental sustainable design enhancements

- LED lighting upgrades
- envelope improvement
- plug loads management
- & solar PV system

In less than an hour of an architect's time, these insights were gathered for a fraction of the cost of a full energy model.



Reference Model Building Code: IECC 2018
Baseline EUI: 33 kbtu/sf



Envelope: **Glazing & insulation**
\$2/sf = 2% EUI savings



Lighting: **Florescent to LED**
\$0.12/sf = 14% EUI savings



Plug loads: **Energy star certified**
\$4/sf = 17% EUI savings



Renewables: **On-site solar PVs**
\$9/sf = 27% grid EUI savings

NUMBERS ARE APPROXIMATE ESTIMATES

60%
Energy Savings

40% carbon savings
\$15/sf cost of upgrades
\$9,000/year in utility savings
\$1 Million NPV over 50 years