Energy Modeling Services

our team

With over 20 years of energy efficiency and green building consulting experience, Taitem Engineering offers energy modeling services for building owners, architects and engineering consultants. Taitem can provide these assessments for all types of building including commercial, industrial, institutional and multi-family buildings. Our staff includes five-licensed PEs, two certified energy managers (CEMs), six LEED APs and one high-performance building design professional (HBDP).

our services

- Whole building hourly energy simulations
- eQuest, HAP and EnergyPlus
- LEED® Energy and Atmosphere Prerequisites and Credits
- Energy audit assessments
- Designed to Energy Star
- Federal and NYS Tax Credits & Deductions
- Renewable energy analysis Solar PV/Thermal, Ground-source Heat pump
- Federal and NYS energy performance compliance
- Modeling assistance during early-design
- Integrated green building design approach

regulatory compliance assistance

Including:
- NYC Local Law 86
- NYS Executive Order 111
- NYC School Construction Authority
- NYS ECCC
- NYC Local Law 87

Taitem is providing energy modeling services for this new arts and education center in Manhattan. Solar2 seeks a net zero energy output and LEED Platinum certification. Some features evaluated in the energy model include, a 90 kW solar PV roof, green roof, vegetative green screen, vertically integrated greenhouse, occupancy and day lighting controls, ground source heat pump (GSHP), ERV, building management system, DCV, and night-time free cooling, among others.

Taitem generated hourly simulation energy models of this 7,500 sq ft theatre. Two separate analyses were performed to determine financial incentives available through NYSERDA and to calculate the percent site energy savings for the proposed design relative to a building that complies with the Energy Conservation Construction Code of NY (ECCC). The building will be renovated with improved building shell insulation, high efficiency lighting, variable refrigerant volume systems, air-side economizer, DCV.
Featured Projects

**SUNY Fredonia | Science Technology Building**

Taitem generated hourly simulation energy models of this 104,800 sq ft building. Two separate analyses were performed to determine financial incentives available through the NCP and to calculate the percent site energy savings for the proposed building design relative to a baseline building that just complies with the Energy Conservation Construction Code of New York State.

**Varyap Meridian | Istanbul, Turkey**

Taitem Engineering is providing energy modeling of this 4.2 million sq ft residential and commercial development. Varyap Meridian has 1,500 apartments, a luxury hotel, and three office centers. The complex is seeking LEED Gold certification with an estimated 30% energy savings and 35% reduction in CO2/greenhouse-gas emissions compared to a standard building.

**Contact**

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To see more of Taitem’s projects and to meet the staff, visit www.taitem.com