

ANKUSH RASTOGI, MSc, LEED AP ID+C

ENERGY SPECIALIST



PROFILE

Professional energy modelling personal with education in mechanical engineering and a Master of Science in renewable energy design. Certified LEED professional with over 5 years' experience, specializing in energy modelling. Areas of expertise include buildings with various occupancies in cold climates of North America.

RELEVANT PROFESSIONAL EXPERIENCE

Client: Building Owner

Project Type: Energy & Sustainability Experts

LEED and energy modelling expert. Providing energy modelling services for commercial, residential, and industrial occupancies for low-rise and high-rise buildings. Working within the energy efficiency team to provide building energy analysis. Performing LEED and code compliance energy modelling for clients in the US, Canada.

Client: Building Owner

Project Type: Energy & Sustainability Consultant

Created new and existing building energy models using software's like Trane TRACE 700 and IES VE. Informed design engineers and architects with recommendation to improve energy efficiency of the buildings by implementing new strategies in the design through modeling. Assisted in gas optimization audits and boiler efficiency improvements and steam and hot water reduction, performed energy savings calculations and prepared technical reports. Assisted in M&V plans as required by IPMVP. Assisted in LEED credits, online project documentation and fundamental commissioning.

Client: Building Owner

Project Type: Commercial Building Performance Consultant

Scope - SB-10 Ontario code compliance energy model, energy modeling report, and compliance forms. Providing a comparison of using various envelope u-values and its impact on the GHG and energy savings achieved by the proposed design compared to the baseline. (6 similar buildings completed)

Client: Building Owner

Project Type: Energy Modeler

Created LEED energy models in TRACE 700 and addressed GBCI review comments. Assisted in LEED online documentation and address review comments from USGBC.

Client: Rosewood Village (130 Housing units)

Project Type: Residential, Energy Auditor

Perform ASHARE Level-I and II energy audits and water audit and assisted with the spreadsheet calculations. Provided recommendation and calculation for the use of Heat pumps and Solar PV for electricity storage.

CONTACT

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EDUCATION

Master of Science
University of Dayton, OH, USA
2016

Bachelor of Mechanical Engineering
GBTU University (Formally UPTU)
Galgotia's College of Engineering &
Technology, Greater Noida, India
2011

CERTIFICATION

LEED AP ID+C
LEED Accredited Professional, Interior
Design + Construction
2017

PROFESSIONAL EXPERIENCE

Client: Silver Hawk

Project Type: Data Center with Office Space, Lead Energy Modeler

Conceptual stage energy model to analyze the use of displacement ventilation over overhead VAV systems in the office spaces and CRAC units with economizer for the data halls. Provided the energy model reports for schematic to the design development phase of the project.

Client: Denver Premium Outlet

Project Type: Shopping Mall, Lead Energy Modeler

Performed design-stage analysis to identify the most effective energy conservation measures and created an energy model to comply with LEED BD+C Core and Shell certification. The project incorporated Solar PV on the roof to meet the requirement of renewable energy credit. The analysis was done on the System Advisor Model (SAM) tool by NREL for renewable energy calculation.

Client: Sol Pendleton

Project Type: Mixed-use residential and office space, Lead Energy Modeler

Created concept stage to a final energy model for LEED for Homes certification. Investigated potential changes in the annual energy consumption and cost resulting from applying different LEED versions i.e., LEED v3 and v4 and ASHRAE 90.1-2007 and ASHRAE 90.1-2010 and published the case study in the journal.

Project Type: Sr. Officer Engineer

Perform ASHARE Level-I and II energy audits and water audit and assisted with the spreadsheet calculations. Provided recommendation and calculation for the use of Heat pumps and Solar PV for electricity storage. Preventive and predictive maintenance of engineering and utility equipment's. Vendor development, getting quotation, negotiation, and procurement of engineering materials. Planned, executed, and commissioned energy savings projects.

Client: J.K Tyre Plants

Project Type: Utility & Special Projects Engineer

Steam use optimization, steam traps, condensate recovery, flow metering & monitoring, thermal insulation, high pressure hot water heat recovery, heat pipes, boiler efficiency improvements, dust and fume collection systems, VFD's, solar light pipe. Planned, executed, and commissioned energy savings projects. Performed energy consumption analysis, and spreadsheet calculations. Ensured compliance documentation and implementation of Energy Management System (EnMS 50001:2011). Evaluated and analyzed technical documents, and P & ID. Procured project material, vendor negotiations, and follow-up.

TECHNICAL TRAINING

- Open studio training, energy modelling, 2019
- eQUEST, energy modelling training, 2016
- SOL Design, energy modelling, 2015
- ASHRAE online training on Commissioning Process in New and Existing Buildings, 2016
- Internal energy auditor training for Energy Management System -50,001 (ENR-00059923) and Verification of Carbon Footprint Introduction cum Implementation ISO 14064 (ENR-00112668) - British Standard Institute (BSI), 2013
- Basic awareness of ISO – EMS-14001, OHSAS-18001 and e-waste management, 2013
- Steam Engineering Training, Forbes Marshall, 2012
- Post Graduate Diploma (PGD) in Rubber Technology - Indian Institute of Technology (IIT), Kharagpur, 2011