

SAURABH GUPTA

MECHANICAL ENGINEER

CONTACT



Dubai, UAE



+971 507363259



sg6765@gmail.com



[linkedin.com/in/saurabh-gupta-3a978652](https://www.linkedin.com/in/saurabh-gupta-3a978652)

EDUCATION

2008-2012

Uttar Pradesh Technical University,
Lucknow

B.Tech in Mechanical Engineering
(72.8%)

KEY SKILLS

Building Energy Modelling

Thermal Loads assessment

HVAC System analysis

Daylight, shading and solar
analysis.

Thermal comfort analysis for indoor
spaces

CFD Modelling (Internal analysis –
Temperature and air velocity)

USGBC LEED, DGBR. Singapore

Green Mark 2021, NECB energy
modelling

HVAC design

Project Management and Cost
estimation

PROFILE

Saurabh Gupta is a qualified Mechanical Engineer with experience of **13 years** in the field of Building energy modelling, building physics (Daylight, solar analysis, shading analysis etc.) and HVAC design. He has worked on various projects of Singapore, UAE, KSA, Canada and India for building energy modelling, building simulation/analysis, CFD analysis (using IES VE), thermal load calculation etc.

He is also involved in building HVAC design for UK and UAE projects like residential, Office and commercial. He also has a rich experience in IES VE software for building design.

EXPERIENCE

CLIMATIZE ENGINEERING CONSULTANTS, DUBAI, UAE
ENERGY MANAGER

• SEPTEMBER 2025 - PRESENT

- Team Management and development
- Building Physics/Energy modelling project coordination
- Client meeting, coordination and KPI requirements
- LEED V4/4.1/5, ESTIDAMA, MOSTADAM, SBC, Daylight modelling
- Lead the development and refinement of complex building physics simulations to inform sustainable design decisions.
- Conduct in-depth analysis of simulation results, providing insights and actionable recommendations.
- Manage building simulation submission requirements, correspondences and communication with local authorities, USGBC, Estidama, Mostadam, etc. as deemed required for each assigned project.

Key projects are:

- Pendry Hotel, KSA – LEED v4.1 + MOSTADAM
- Armani villas Phase 1 – LEED V4.1
- Marafy Towers (Plot 2380,2384,2373) – MOSTADAM + SBC
- LCCA Pilot Project – LEED v5 analysis
- Sedra Plot 4 – MOSTADAM + ROSHAN
- Ferrari World – Energy analysis
- Ajman Data Center – LEED V4.1
- Dubai Hills – Office – LEED V4.1 and Daylight
- DGCL One Hotel – LEED v4.1
- Confidential US project – Solar PV panel analysis
- Wilds Retail and amenities, Dubai – LEED v4.1 and Daylight modelling
- Seamont residence – ESTIDAMA and Daylight

TECHNICAL TOOLS

IES VE 2023 / 2024 (Advanced)

Apache HVAC,

ASHRAE PRM Tool,

Green Mark Navigator,

Microflow etc.

Revit 2022

AutoCAD 2022

Google Sketch up

Trace 700

HAP

MS Office (Excel, Word,

Power point and One Note)

AWARDS

Appreciation Award – 2023
(AECOM India)

Technical Excellence of the Year –
2017 (WSP India)

Employee of the Year – 2014
(DBHMS India)

STRENGTH

Self-Motivated

Goal oriented

Delegated towards work and hard
working.

Positive attitude

LANGUAGES

English (Fluent)

Hindi (Fluent)

MEINHARDT, DUBAI, UAE

SENIOR BUILDING ENGINEER

• DECEMBER 2024 – AUGUST 2025

- **Commercial Mall, Dubai**

IES modelling for cooling loads assessment for expansion and Refurbishment plan layouts.

- **Hotel, Riyadh, Saudi Arabia**

Energy modelling for LEED V4.1 and perform different ECM for energy reduction as per client' requirement.

- **Data center, Abu Dhabi, UAE**

Energy modelling for LEED V4.1 and ESTIDAMA regulation

AECOM, GURGAON, INDIA

PRINCIPAL ENGINEER – MECHANICAL

• NOVEMBER 2022 – NOVEMBER 2024

- **Founder memorial, Singapore (VE User of the Year Award-runner up)**

Energy Modelling as per Green Mark 2021 guideline and Energy model report, Different energy scenarios based on hybrid cooling options, ETTV Calculation.

- **Sir Robert Re-development, Canada**

Evaluate Energy conservation Measures (ECM's), Model the energy impact of proposed ECMs and provide the feedback on their effectiveness in reducing energy use.

- **APM Depot, Singapore**

Energy Modelling for different façade design options and perform the models for different ECMs to calculate the EUI as per SLF Compliance and for reduction in Energy use.

- **Byron Quarter, London**

IES Modelling for overheating analysis requirements and prepare the energy input report, Heating load calculation.

- **Al Numan Island, KSA**

Building analysis on master plan level such as Building fabrics study, WWR analysis, Daylight analysis, Building orientation study and Energy analysis etc.

WSP, NOIDA, INDIA

SENIOR ENGINEER – MECHANICAL

• APRIL 2020 – OCTOBER 2022

- **Red Sea Marine Life Institute, Al-wajh , KSA**

Thermal load calculation, HVAC mark-up, Mechanical schedule, Schematic diagram for chilled water and ventilation, HVAC coordination.

- **NEOM University, Tabuk, KSA**

Thermal load analysis based on different building fabric options, Space planning mark up, ventilation calculation, Technically Support in Concept stage report.

- **Tuwaiq Palace, Riyadh, Saudi Arabia**

Thermal modelling and load analysis in IES VE

- **Sharaan Resort, AL-Ula, Saudi Arabia**

HVAC drawings review, Prepare the review comments sheet and compare all the inputs parameters used in design with design standards.

- **Africa Institute, Sharjah, UAE**

Thermal load calculation, HVAC mark-up, Mechanical schedule, Schematic diagram for chilled water and ventilation, HVAC coordination

WSP, NOIDA, INDIA

SENIOR ENGINEER – BUILDING PHYSICS

• AUGUST 2015 – MARCH 2020

- **ICD Headquarters (One Zabeel), Dubai, UAE**

Energy Modelling for LEED v3.0 and DGBR Case in IES VE 2015. Cooling/Heating Load Calculation with Building Service team and to check the internal thermal comfort analysis.

- **DIFC 2.0, Dubai, UAE**

Building simulation based on different orientation options, shading options, daylight options, cooling loads analysis and energy performance analysis for LEED V4.0.

- **YAS South Hotel and Arena Buildings, Abu Dhabi, UAE**

Involved in IES Modelling and prepare the Energy modelling for schematic design stage. Also, involved in heat gain analysis based on different Building envelopes to provide Energy efficient results. Provide the support regarding the thermal loads for Yas Arena to Building service team.

- **FP Mobility Pavilion, Dubai, UAE**

Involved in IES & Sefaira Modelling and prepare the Energy modelling for detailed design stage/LEED v4 and involved in Energy, Heat Gain, Natural ventilation analysis and Solar Panels Calculation.

- **QEC PMS Post, Doha**

Involved in Cooling loads assessment and temperature analysis based on cooling equipment ON/OFF conditions.

- **RAK GBC Review, Abu Dhabi, UAE**

Involved in review the IES Energy modelling for green building regulations and then provide the energy efficient solutions for the different types of Buildings.

- **Zayed National Museum Restart, Abu Dhabi, UAE**

Involved in Energy modelling for LEED V3 and involved in cooling loads assessment with Building service team.

- **New Palace of Kuwait, Kuwait**

Involved in Climate analysis and Thermal comfort analysis as per ASHRAE 55 for concept, Schematic and Final CFD simulation for Detail Design stage reports.

- **Petrofac Aramco Fadhili, KSA**

Involved in Energy modelling for LEED V3 and involved in providing the Energy performance options for one building to meet the LEED Energy criteria.

DBHMS CONSULTANTS PVT LTD, NOIDA, INDIA

ENERGY SIMULATION ANALYST

- JUNE 2013 - JULY 2015

- Energy Simulation for IGBC, GRIHA, LEED CS, NC INDIA, and Building Architectural analysis.
 - Ikebana – Group Housing, Greater Noida
 - Nirala Aspire, Greater Noida.
 - Eco City, Noida.
 - Eco Village- I, II & III Noida.
 - Nathani Heights, Mumbai.
- Building Design analysis
 - Milwaukee, Chicago.
 - Sushant Jadhav Residence, Pune
 - K-12 Pali School, Rajasthan architectural Analysis.
 - IIT Gandhinagar Hostel, Guest House, and Director Residence Architectural Analysis.
 - Sky I Office, Pune architectural Analysis.