

ANVI BHATNAGAR

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SUMMARY

Analytical and forward-thinking Sustainability & Energy Engineer with a multidisciplinary background in environmental design, operational efficiency, and sustainable development. Experienced across building performance benchmarking, energy audits, waste management, and greencertification processes. Currently pursuing LEED AP O+M and Estidama PQP, with hands-on project experience supporting certification documentation, data analysis, and operational sustainability across the UAE and Europe. Passionate about advancing net-zero carbon, water conservation, and ESG integration in the built environment.

EXPERIENCE

SUSTAINABILITY INNOVATION & CLEAN ENERGY ANALYST

Alpha Data X

Present, U.A.E.

- Lead strategy development for 100% renewable adoption in data centers through PPAs, on-site generation, and grid decarbonization.
- Apply AI and machine learning models to forecast energy demand and align data infrastructure with renewable energy optimization goals.
- Collaborate with executive stakeholders and data center architects to implement low-carbon, energy-efficient AI infrastructure.
- Develop predictive tools for energy and water efficiency while coordinating sustainability reporting for regional clients.

RESEARCH & DEVELOPMENT ANALYST

University of Vaasa

Oct 2022 - Dec 2024, Vaasa, Finland

- Researched and evaluated innovations in Carbon Capture, Utilization & Storage (CCUS) technologies.
- Performed techno-economic and environmental impact assessments for carbon capture pilot systems.
- Authored and contributed to academic publications focused on energy systems decarbonization and circular economy integration.
- Supported collaborative research between academia and industry for low-carbon transition strategies.

MANUFACTURING EXCELLENCE ENGINEER

Total Lubricants Blending UAE Co.

Apr 2021 - Sep 2022, Dubai, UAE

- Conducted process efficiency audits using the DMAIC methodology, improving energy utilization and operational productivity.
- Coordinated 55 audits, Kaizens, and Energy Saving Campaigns, reducing production energy waste by measurable margins.
- Supported sustainability performance reporting aligned with ISO 14001 and corporate Net Zero commitments.
- Provided data analysis support to senior engineers and managers for project improvement initiatives.

ENERGY MANAGEMENT INTERN

Total Lubricants Blending UAE Co.

Jan 2021 - Apr 2021, Dubai, UAE

- Evaluated feasibility of clean energy sources and carbon dioxide reduction methods for industrial operations.
- Researched and proposed innovative carbon recycling and storage initiatives, contributing to early NetZero alignment.
- Coordinated internal sustainability meetings between EHS, R&D, and operational teams.

PROJECT COORDINATOR

Sharaf Energy

Aug 2019 - Feb 2020, Dubai, UAE

- Oversaw project documentation and design deliverables for a 500 kW solar retrofit under Etihad ESCO.
- Facilitated stakeholder coordination and project planning sessions between design and MEP teams.
- Streamlined procurement and technical reporting for solar PV installations, ensuring compliance with DEWA energy standards.

SOLAR CONSULTANT

Sharaf Energy

Sep 2018 - Feb 2019, Dubai, UAE

- Conducted solar site surveys and system sizing using ENACT software.
- Formulated proposals including cost-benefit analysis, payback studies, and carbon footprint assessments for DEWA's solar program.
- Supported clients in implementing energy efficiency and renewable energy strategies for commercial buildings.

EDUCATION

M.SC. SMART ENERGY

University of Vaasa • Vaasa, Finland • 2022 - 2024

- Master's thesis: Advancements in Carbon Capture and Renewable Integration Systems.

B.TECH SOLAR & ALTERNATIVE ENERGY ENGINEERING

Amity University • Dubai, UAE • 2015 - 2019

SKILLS

AUTOCAD, ENACT, HELIOSCOPE, MATLAB, MS OFFICE, PVSYST, ENERGYPLUS

Renewable Energy Planning, Energy Modeling, Carbon Management, Sustainability Reporting, Green Building Frameworks (LEED, Estidama), ESG & Net Zero Strategy, Data-Driven Energy Forecasting, AI/ML Energy Applications, Process Optimization