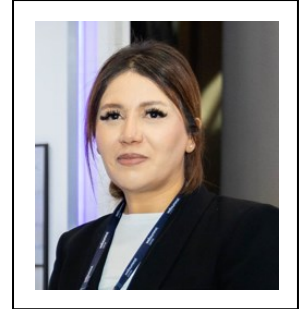


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Dr. Ameni Boumaiza

Qatar Environment and Energy Research Institute, Hamad Bin Khalifa University,
Qatar



Paper ID _____ : 391

Paper Title _____ : Behaviorally Informed Demand-Side Management in Hyper-Arid Regions: A Study of Nudges in Qatar's Smart Grid

Bio :

Dr. Ameni Boumaiza is a Scientist at the Qatar Environment and Energy Research Institute (QEERI), Hamad Bin Khalifa University (HBKU), specializing in AI applications in energy systems, demand-side management (DSM), renewable energy trading, and green finance. She leads several high-impact projects, including the QNRF-Tubitak funded *Solar Trade (ST)* blockchain-enabled renewable energy ecosystem, the Q-Green startup for decentralized carbon and energy trading, and multiple initiatives on DSM and energy-water-food nexus resilience.

Dr. Boumaiza has authored over 70 peer-reviewed publications in Q1 journals (Elsevier, IEEE, Wiley) and filed multiple patents in AI-driven DSM and blockchain-enabled carbon trading. She has secured more than USD 2 million in competitive funding from QNRF, HBKU, and international partners.

Her contributions have been widely recognized: she received the Middle East Innovative Women in AI Award (2024), the Best Researcher Award at the International Conference on Leadership and Management (2024), the Best Smart Application for Energy Efficiency Award (2023), and was elected IEEE IES Women Ambassador (2024).

Through her leadership, Dr. Boumaiza bridges advanced research, innovation, and entrepreneurship to accelerate Qatar's net-zero and sustainability goals.