

# Certificate

OF PARTICIPATION

THIS IS TO CERTIFY THAT

## Lallouani HELLALI

in oral and technical presentation recognition and appreciation of research contributions to  
7<sup>TH</sup> INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS  
held on June 24-26, 2025 / Artvin, Türkiye  
with the paper entitled

MODELING AND CONTROL OF MATRIX CONVERTER FOR  
EFFICIENT DFIG WIND TURBINE OPERATION



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