

# **Two-stage stochastic-based scheduling of multi-energy microgrids with electric and hydrogen vehicles charging stations, considering transactions through pool market and bilateral contracts**

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## **Abstract-**

**In order to mitigate microgrids (MEMGs) with the high penetration of renewable resources and combined heat and power (CHP), boiler, hydrogen storage systems, responsive demands. From the trading and business model side, the proposed MEMG optimized operation relies on**

**Index Terms- Hydrogen; Microgrids; Responsive demands; EV charging stations; Hydrogen charging stations**

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