

Subject: New research: Adapting electric vehicles in the Middle East

Hi XXX,

Given your coverage of electric vehicles, I wanted to gauge your interest in learning about some innovative research from QEERI (Qatar Environment and Energy Research Institute), a member of Qatar Foundation.

Most EVs are designed with U.S., Chinese and European markets in mind, but what happens when they are introduced to arid climates that are primarily hot and dry? In Qatar, where EVs are becoming increasingly prevalent, with more than 300 fast chargers installed nationwide, QEERI is conducting research to help support this EV integration.

Research areas include:

- **Next-gen EV chargers:** AC/DC modules with wide-bandgap power electronics and solid-state transformers.
- **Wireless charging innovation:** More efficient, safe, and scalable coil designs.
- **Grid resilience modeling:** Using real-time data to integrate EVs without destabilizing distribution networks.
- **Arid climate reliability:** Designing robust charging infrastructure that withstands extreme temperatures, dust, and humidity – critical for regions like the Middle East but also relevant to deserts and hot U.S. states.
- **Hydrogen-EV synergy:** Exploring hybrid stations combining solar, storage, and hydrogen refueling.

I'd be happy to connect you with [Dr. Sertac Bayhan](https://www.hbku.edu.qa/en/staff/sertac-bayhan) [https://www.hbku.edu.qa/en/staff/sertac-bayhan]. **Senior Scientist at QEERI**, who can speak about:

- Why arid climates present the ultimate stress test for EVs and how QEERI and Qatar's climate provide a great testbed for EV research
- The need for more international discussions on EV market integration
- The role of AI, renewables, and hydrogen in building resilient EV ecosystems

Please let me know of your interest and I'd be happy to arrange a conversation.

Best,

XXX

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