

# Accepted Manuscript

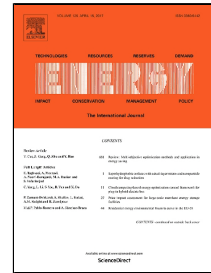
Novel grid-connected solar/wind powered electric vehicle charging station with vehicle-to-grid technology

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**Highlights**

- Novel constructed grid-connected solar/wind powered electric vehicle charging station
- The charging station maximally converts solar and wind energies into electric energy
- Novel maximum power point tracking technique implemented in the charging station
- The charging station is grid-connected with vehicle-to-grid technology
- The charging station balances load demand in the grid connected to it

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