Title: Wireless nonradiative energy transfer: antenna performance enhancement techniques.

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Abstract: In recent times, wireless nonradiative energy transfer has elicited considerable research interest. Its varied applications range from contactless battery charging and power delivery to sensors, near-field communications, and radio-frequency identification (RFID). Antenna performance plays a key role in the successful deployment of a wireless energy transfer strategy. This article presents an integrated survey of metrics and methods that have been employed to evaluate and improve antenna performance in nonradiative energy transfer schemes.