

## RE Partner Solution

# Ultrasonic Wireless Power System



### Solution Summary

SonicEnergy's ultrasonic wireless power technology allows more power delivery, at a longer distance than other wireless power options with no regulatory restrictions. Hundreds of milliwatts within one meter and several milliwatts at 5 meters are available to power various electronic devices. SonicEnergy's ultrasonic wireless power solution is ready to use for remote sensor applications that use [Renesas RE MCUs](#).

### Features/Benefits

- True Over-The-Air Wireless Power Out to 5 Meters
  - The only non-electromagnetic wireless power option
- Multiple Transmit and Receive Configurations are Available as Development Kits
  - Scalable for various applications
- Infrared Vision Controller, Variable Regulator Output
  - Receivers can be set to 1.8, 3.3, and 5V applications
- Lower Total Cost of Ownership
  - Compared to batteries, energy harvesting, and wired power solutions over a 5-year period

### Diagrams/Graphics



Ultrasonic  
power



LoRaWAN®  
radio



SonicEnergy Receiver +  
Renesas SOTB RE MCU +  
Renesas RH & Temp sensor

Demo video : <https://youtu.be/BI4RZWsr4dI>



IoT Portal (by SonicEnergy)

### Target Markets and Applications

- Industrial IoT
- Structural Health Monitoring
- Healthcare
- Smart Agriculture
- Asset Tracking
- Industrial Automation

<https://sonicenergy.com/>



COMPANY NAME	SonicEnergy
ADDRESS	128 Maryland St, Unit C, El Segundo, CA 90245
CEO	Will Kain
BUSINESS DESCRIPTION	Ultrasonic Wireless Power for connected sensors and devices
CORPORATE OWNERSHIP	Privately Held