Wireless Energy

Safe, Efficient, and over Distance
WiTricity: It started with an idea

WiTricity founder, Prof. Marin Soljacic, pursued what most thought was impossible

- Original MIT research team powered a 60W light bulb safely and efficiently at a distance of 2m
- The research team is pictured standing between the source and capture coils

MIT team confirmed the theory with experimental results

- Original experiments showed that theoretical efficiency levels could be achieved in practice
- WiTricity Corp. is the exclusive licensee of the MIT technology
How it works:
Highly resonant devices are tuned to the same frequency and exchange energy via an oscillating magnetic field.

AC Power Input to Source Resonator

Specially Designed Capture Resonator

Highly Resonant Energy Transfer

Highly resonant devices transfer electrical energy over distance through coupled magnetic field.
WiTricity technology benefits

1. **Flexible orientation** between source and capture device

2. **Multiple devices** can couple to a single source

3. **Different sizes** source and capture devices

4. **Extended wireless range** with WiTricity Resonant Repeaters
WiTricity technology is safe, efficient, and works over distance

| Safe             | Uses non-radiative magnetic field to transfer energy  
|                  | Meets international safety guidelines for human exposure  
|                  | Being developed for implanted medical devices           |
| Efficient        | Based on highly resonant magnetic coupling             
|                  | Minimal heating and energy transfer losses             
|                  | Provides power from milliwatts to kilowatts            |
| Works Over Distance | Highly resonant coupling enables charging at a significant distance  
|                  | Can transfer energy through concrete, wood, plastic, glass, etc. |
A Multitude of Applications

Consumer Electronics

Electric Vehicles

Medical Devices

Robotics

Solar Power

Lighting

New applications are limited only by one’s imagination
WiTricity is delivering solutions across a wide range of industries.
## Company Overview

<table>
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<tr>
<th><strong>Business Overview</strong></th>
<th>To develop and commercialize technology for safe, efficient transfer of wireless electric power over room scale distances</th>
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<tbody>
<tr>
<td><strong>Facilities</strong></td>
<td>Watertown, MA &amp; Logan, UT</td>
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<tr>
<td><strong>Employees</strong></td>
<td>47</td>
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</table>
| **Key Applications**  | • Consumer electronics  
                        • Electric vehicles  
                        • Medical devices  
                        • Robotics  
                        • Military systems  
                        • Lighting |
| **Patents**           | 20 issued, > 270 issued and pending, exclusive licensee of MIT technology for wireless power transfer |

## Investors

- Argonaut Private Equity
- Stata Venture Partners
- Air Waves Wireless Electricity
- Schlumberger

## Awards and Accolades

- Top 10 Emerging Technologies for 2008
- 2009 Awards Winner

## Featured In

- CTIA WIRELESS 2011
- TED GLOBAL 2009
- The Economist
- Forbes
- CES

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WiTricity Corporation
Reference Slides
Application: Televisions

WiTricity demonstrates the world’s first completely wireless TVs
Application: Consumer Electronics

WiTricity Developed Wirelessly charged and powered Handsets, game controllers, notebook PCs, and batteries.
WiTricity developed wireless LED Lighting fixtures, using “resonant repeaters”
WiTricity develops wireless charging for soldier electronics, extending battery life.

**Application:** Defense and Government
**Application:** Electric vehicle charging

**WiT-3300 Vehicle System**

- >90% efficiency @ 15-20 cm air gap
- coil size < .25 sq meter
- coil weight < 7 kg
Strong Intellectual Property Becomes Your Advantage

- Over 270 Patents and Patent applications worldwide
- Substantial and continuous effort fortifying our IP

- 20 Patents Issued as of Aug 2012 in US, Japan, Korea, Australia
- Published Patents in Key Regions

Global IP protection for your investment in WiTricity technology
**WiTricity Products**

**Prodigy**

- Enables engineers and designers to learn about wireless power transfer at an easily affordable cost
- Includes a source, repeater, and two LED capture devices
- Includes design package, including schematics and mechanical drawings

**WiT-2000 Developer’s Kit**

- Enables developers to integrate WiTricity technology into a spectrum of wireless power solutions
- Includes full Design and Specifications Document Package, 2 days of training, and 6 months of remote technical support
**WiTricity Products**

**WiT-2000M Developer’s Kit**
- Utilizes the latest WiTricity resonator designs, thinner and lighter than ever.
- Enables developers to integrate WiTricity technology into a mobile devices
- Includes enabling 4 customer provided devices with proof-of-concept wireless power transfer
- Includes full Design and Specifications Document Package, 2 days of training, and 6 months of remote technical support

**WiT-3300 Development System**
- Park-and-Charge system
- High efficiency, high power transfer, electric vehicle charging system
- User friendly and works through materials