

Infinica, Inc.

Company Overview: Infinica provides endless power for wireless sensors, eliminating the need to compromise how often a measurement is taken and communicated.

Problem: Wireless sensor networks provide solutions to problems where it is impractical and expensive to deploy wired sensors that require running conduit costing up to \$1,000 per foot. Among the biggest challenges impeding the adoption of wireless sensors is the need for a long-lasting, self-contained power source. Currently, wireless sensors are powered by conventional batteries, which need periodic replacement. A large, growing market is emerging where access to sensor nodes may be limited, dangerous or costly and routine maintenance to replace exhausted batteries will be impossible.

Solution: Our patent-pending EnerPak™ harvests waste energy from the environment—light, vibrations or heat—converts it to electrical energy and delivers a consistent voltage that is needed for reliable sensor operation. EnerPak stores excess energy for later use by the sensor to provide back up when the ambient source goes away. Beta-testing has demonstrated that our EnerPak reduces cost, improves process management precision through optimized data rate and is rugged and reliable enough to be deployed in many environmental conditions.

Business Model: Infinica's business development strategy is to form alliances with wireless sensor manufacturers, system integrators and end users to develop power modules that can replace batteries in customer-specific applications.

Marketing Opportunity: By 2012, the market for wireless sensor networks will be \$14 billion, up from \$1 billion in 2007. Industrial monitoring and control is the most targeted sector in this market (29 percent sales), will remain the largest sector over the next 5 years and will be Infinica's target. Strategic relationships will identify niche applications that need energy harvesting to be viable. The addressable market for energy harvesting-based power will reach \$900 million (10 million units) in 2013.

Competitive Advantage:

- Uninterrupted delivery of power to the sensor
- Dynamic peak power tracking
- Efficient two-stage energy storage system
- Low output impedance
- Long life
- Sustains high data rate without compromising power source life
- Flexible source of input energy
- Patent-pending ultra-low power control electronics.

Management Team: Charles Lakeman (founder and CTO) has been instrumental in creating Infinica and driving commercialization of the technology. The company has recruited a CEO with business development experience in the wireless sensor industry who will join the company on closing Series A funding.

Funding Request: \$4.5 million Series A



CHARLES LAKEMAN

Investors: Parent company, TPL Inc.

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In Attendance:
Charles Lakeman, CTO

Revenue Forecast:

2009:	\$.22M
2010:	\$.7M
2011:	\$ 7.5M
2012:	\$ 25.8M
2013:	\$ 75M