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## **New Service Uses Temporary Wireless Sensor Networks to Identify Energy Waste and Predict Maintenance Problems**

(Irwin, PA ) IntelliSensor (ISS) has created a comprehensive methodology that identifies cost savings in industrial processes and commercial facilities by using wireless sensors to isolate energy waste and to predict maintenance problems before they occur. The ISS approach temporarily installs an Intelligent Wireless Sensor Network (iWSN) under actual operating conditions to gather data in manufacturing operations, power plants, commercial buildings and temperature-sensitive facilities.

The intelligent wireless sensor networks are based on the emerging technology of very-small computers and radios married to sensors with wireless communication capability. They can gather operational data from process locations not possible before.

“One of our clients saved thousands of dollars pinpointing an HVAC problem,” stated John Voytko, co-founder and president of ISS. “because there were no wiring costs and the sensors could be reconfigured and moved easily. Plus, wiring was too disruptive. The results validated the HVAC modifications.”

The IntelliSensor service is called “3T” – “Temporary Trial and Testing.” It begins with (1) an analysis of the chosen operating processes and the business processes. Then (2) a process area is selected where critical data was either previously unattainable or traditional wiring was cost-prohibitive. (3) A site review is conducted to assess physical obstructions and possible RF interference. (4) The Intelligent Sensors (iWSs) are then deployed in a mesh network and (5) the operating test begins. (6) Operating and environmental data are analyzed to target energy waste and predict maintenance problems. The final step is (7) a cost-benefit determination and possible courses of action.

Dirk Kalp, Chief Technology Officer and co-founder, added “ The beauty of being wireless is that the sensors can be put almost anywhere in the actual environment. And the network topology is very flexible making it alone more cost-effective. Problem areas can be worked around.”

“A project like 3T is the best way to quickly gather critical process data that bring cost savings,” offered Michael Pochan, the Chief Marketing Officer and co-founder. “Ford, GE and BP have already dived in and have documented results.”

ISS will be holding a luncheon in Pittsburgh in November to review actual project results and the different wireless sensors deployed.

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*IntelliSensor (ISS) is a provider of software and services to industries that seek increased process efficiencies and predictive maintenance by gathering previously unattainable operating and environmental data.*

FOR MORE INFORMATION, go to [www.sensormgmt.com](http://www.sensormgmt.com) or contact John Voytko at 724-861-9953