**A WIRELESS PASSIVE SENSOR NETWORK FOR ENVIRONMENTAL PARAMETERS MONITORING**

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The existing energy harvesting methods are able to provide (harvest) low instantaneous power from the environment, which is sufficient for ultra-low power electronics. Energy harvesting is especially suitable for the use in systems where the batteries usage is a high cost solution and the power supply network is not available. Good examples are wireless sensor networks (WSNs) which are used to monitor large spatial area. They consist of a number of wireless sensor nodes which are deployed within the monitored area.

The project goal is to develop a prototype of a wireless passive sensor node which solely uses energy harvesting as a power supply. The additional project goal is to enable effective transfer of collected data through the WPSN by optimizing the WPSN’s several segments. The project is expected to prove that it is possible to have reliable operation of the wireless sensor node which is powered solely by energy harvesting methods.