

Case Study- water consumption monitor and reporting:

More than 1 in every 6 persons are water stressed. Change in weather condition due to global warming, uncontrolled consumptions of groundwater, rapid growth of cities are leading to acute problem to the Indian cities. Many governing bodies are ensuring that water consumptions are monitored and appropriately charged. With the rapid growth of multistoried apartment buildings, it is not easy to monitor consumption of each household as well as to monitor leakage as the consumption pattern in each household can dramatically vary.

To address this, a low cost solution to monitor the water usage and adopting effective maintenance, especially suitable for multistory apartment buildings has been developed by MiraFra. It is based on low cost microcomputer board designed with ultrasound based sensor for measuring the water usage. The solution has capability to transmit the data over Zigbee to centralized device which had WiFi connectivity connecting to the internet. The consolidated live data are available and the customers are able to take control of their usage. This solution is much efficient compared to conventional one where a tedious manual process data collection is used with typical human error introduced in measurement and calculation. Solution is appreciated by customers as it is noninvasive.