Due to large increased populations of wireless connected nodes, capable of computation, communication and sensing constitute wireless sensor networks (WSNs). Energy optimization has become a major research point in this field to consume large power and save energy. To optimise energy both at node level and network level data encrypted design is designed with proper hardware requirements and routing techniques. This will consume more energy in wireless sensor node. Implementation is done in hardware using various components and experimental result is calculated at each node and plotted on graph. With the help of graph compared with power level reading of each node normal with Huffman reading. It is observed that using Huffman coding and multipath routing algorithm data packets are encrypted and power is saved.

References

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**Index Terms**

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Energy Aware Multipath routing, Energy Consumption, Delivery Packet Ratio, RF2.4G.