



Figure 4. Overall Energy consumption versus no. of nodes.

Through these simulation results, it has been found that carrying the packets through mobile agents in DSR algorithm is better as compared to conventional DSR algorithm. It optimizes the energy, bandwidth and hence lowers the delay and increase the packet delivery ratio and throughput.

## 9. CONCLUSION

MANET has lower link capacity as compared to wired networks. And as the mobile devices work on the battery power, the mobile devices in the network have limited energy to operate and forward the data packets. Due to the scarcity of these limited resources, there is a requirement to save these resources. The proposed algorithm based on the application of mobile agents in DSR routing protocol ensures that the bandwidth and the energy can be optimized. The route request packets and the route reply packets are contained in mobile agents and the agents are carrying the packets to the different nodes. The simulation results show that the extended DSR is performing better in the network as compared to traditional DSR in terms of packet delivery ratio, throughput and energy consumption. It is shown in the results that by applying mobile agent, the consumption of total energy and the energy at each node is low. Also the improved PER and Throughput proved that the bandwidth is optimized.

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# Mobile Object Systems Towards The Programmable Internet 2nd International Workshop Mosae96

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