❖ *Power-aware routing protocols:*

The following metrics can be taken into account on route selection procedure:

• Minimal energy consumption per a packet:

This metric involves a number of nodes from source to destination.

- +: uniform consumption of power throughout the network:

• Maximize the network connectivity:

To balance the load between the cut-sets (those nodes removal of which causes partitions).

- –: difficult to achieve due to variable traffic origination.

• Minimum variance in node power levels:

To distribute load such that power consumption pattern remains uniform across nodes.

- +: nearly optimal performance is achieved by routing a packet to least loaded next-hop.

• Minimum cost per a packet:

Cost as a function of the battery charge (less energy – more cost) and use it as a metric.

- +: easy to compute (battery discharge patterns are available);

- +: this metric handles congestions in the network.