ZTE's energy saving solution claims that it helps mobile operators save up to 40 per cent in power consumption in their long-term-evolution (LTE) networks, say news reports.

As per the test results, a single telecom site employing this solution can save up to 40 per cent in power consumption.

According to Gartner, the global information and communication technology accounts for as much as 2.5 per cent of the world's greenhouse gas emissions. In a typical wireless telecommunications network, about 90 per cent of the energy is consumed by base stations. ZTE's energy saving solution offers innovative technologies to reduce power consumption for base stations, including the industry's first integrated system for automatic/dynamic PA bias voltage control and intelligent orthogonal frequency-division multiplexing signaling shutdown without affecting performance of the network.

ZTE's energy saving solution claim to generate energy savings of as much as 32 per cent on a single site. Employing ZTE's energy solution annual reduction of as much as 5,200KwH can be achieved on a typical 1,500W base station. For a network comprising 1,000 base stations, the annual reduction would amount to 5.2 million Kwh, reducing 4500 tons of carbon dioxide emission. When combined with the deployment of renewable energy sources such as solar energy, wind energy or bio-energy, energy savings of more than 50 per cent of the entire network can be achieved.

"ZTE will continue to develop our technology to provide customers with energy-saving products and solutions. We are committed to minimising environmental impact with green technology," says Wang Shouchen, vice-president, ZTE.

ZTE will increase resources for LTE development and green technologies. The company so far has 38 LTE commercial contracts and is working with more than 100 operators in Europe, the Americas, Asia Pacific and Middle East on trial LTE networks.

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