

## Service Sector Lighting & Appliances

The service sector electricity consumption in Nigeria is estimated to be about 25% of the final electricity demand as at 2010. Lighting and major appliances like ceiling fans, televisions, refrigerators, computers and others account for about 30% of electricity consumption in the service sector. The technologies employed are mostly less efficient types. With the rising contribution of service sector to the economy, the energy demand in this sector will increase. The electricity demand for service sector lighting and appliances is 10.13TWh.

### Level 1

Level 1 assumes an increase in lighting and appliances, the demand for energy in the service sector will increase significantly with increase in economic activities. The efficiencies of the lighting and appliances remain the same as today. The electricity demand for the service sector is estimated to be 118.78TWh.

### Level 2

Level 2 assume that more efficient appliances are replaced. Appliances like TVs, Computers, CFLs & LED lights and energy building codes is maintained. Also, the behaviour towards application of lighting and appliances has improved. The energy demand for lighting and appliances is estimated to reduce by 20%, the demand for electricity in the sector will be about 90TWh.

### Level 3

Level 3 assumes that the use of inefficient appliances decreases by about 50% with efficient technologies by 2050. The electricity demand in the service sector for lighting and appliances will be about 60TWh.

### Level 4

Level 4 assumes 100% total penetration of highly efficiency technologies and low contribution of the sector to the economy. The lighting and appliances demand will be about 30TWh. This will be about thrice the value of 2010.



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