In the study the demand for electricity consumption in Turkey as the functions of Gross Domestic Product (GDP) in Dollars and electricity price ($/kWh) over the period 1970-2009 is examined. Throughout the study co-integration analysis of long-term behaviour of electricity consumption in Turkey is performed and the partial elasticities of electricity consumption with respect to income and price are calculated to be 0.928 and -6.849 respectively. In the light of these results long run electricity consumption is inelastic to income changes ($e_Y<1$) and elastic to price changes ($e_P>1$). The short run results of the error correction model represent the lag error correction term (ECT$_{t-1}$) which complies with the expected sign (-0.09) and is significant at the 5% confidence interval. The negative coefficient represents a convergence towards equilibrium in the long run. It may be claimed that the converging from short run disequilibrium to long run equilibrium takes 11 years.