Abstract: The goal of this project is to utilize the available power effectively. The device aims at bringing down the operating costs of a HT/LT consumer by preventing the users to function at a higher KVA, than what is allotted. This is done priority based Load Shedding. Also this device increases the profit of a consumer by maintaining a higher power factor using static var compensators, which in turn makes the consumer eligible for the incentives for high power factor maintenance given by the EB. The device can also be interfaced with a computer, enabling easy monitoring. On the whole this device serves as a versatile solution for power management of a consumer.

Keywords: load management, max 232, block diagram, microcontroller.