



SKR



ENGINEERING COLLEGE

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Department of Electrical and Electronics Engineering

PROJECT TITLE	PREPAID SMART ENERGY METER USING ZIG-BEE
STUDENT NAMES	R. DINESH T.DINESH B.VENKATRAMAN
SUPERVISOR	Mrs. P. DEEPA, M.E., Assistant Professor
OBJECTIVE	The main aim of this project is to design a new system for energy meter billing.
ABSTRACT/IDEA	Prepaid energy meter is an efficient scheme of electricity billing. Prepayment metering system had improved operational efficiencies, reduced financial risks and provides better customer service. ARM microcontroller is used for efficient energy meter monitoring. User can recharge the system using RFID tag. Once the user RFID tag verified, user need to choose the recharge amount with the help of keypad. The controller sends the verification request to the EB section through Zig -bee. In EB section they verify the tag balance. If the tag has sufficient amount the EB section sends the approved response to the home EB meter and recharged information send to user mobile. If the tag has insufficient balance the alert message sends to the user mobile number.
TECHNOLOGY USED	1. RFID 2. ZIG-BEE TECHNOLOGY 3. ARM Microcontroller
BENEFITS	In existing system, the EB meter monitoring is happen only manually. In this project we are reducing the manual work, by automatic EB meter reading.