A NOVEL APPROACH ON ELECTRICITY BILLING AND FAULT NOTIFICATION

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ABSTRACT

The present systems of energy billing are error prone, time and labor consuming. The Service Provider for energy
uses conventional method for calculating the energy consumed by individual consumer. Now-a-days, automation finds
importance in every field. So, E-metering (Electronic Metering) has gone through rapid technological advancements and
there is increased demand for an efficient and reliable Automatic Meter Reading (AMR) system. This paper presents a
fully automated energy meter. To keep pace with increased necessity of advanced metering infrastructure and near real
time, a two way data communication technique between the power distribution company (Electricity Board) and the
consumer is used. The proposed system uses PIC16F877A microcontroller. A New interactive user friendly GUI is
developed using Microsoft visual studio .NET framework and C #.

KEYWORDS: GSM, AMR, Visual Studio, PIC 16F877A Microcontroller, Visual Studio .NET, C#