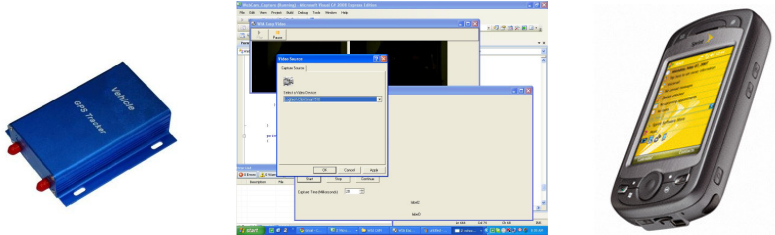


PowMon

SMS based Power Status Monitoring System

This is software cum device based solution developed with the Military, Hospitals, Utility companies, mobile companies, data collection agencies etc in Mind. The basic function of the software is to send an SMS to a central server when the power is out. The central Server logs this data and provides various alerts and reports based on this system.



System Requirements:-

Server:-

120 GB HDD

2 GB Ram

Core 2 Processor or equivalent

Microsoft Windows Operating System, (Windows 7 Supported)

SMS Gateway:-

Windows Mobile 6

256 Ram

1 GB internal memory Card

Data Collection units:-

These are provided, they work on 240 Volts inputs.

Case Studies:-

1. Government Hospital Kotayam:

The Government hospital of Kotayam district in Kerala, India is a certified medical college with around 200 clinics working under it in various parts of the District. The management team headed by Dr Sreenivas Menon identified power outage in its clinics as a main reason for loses of valuable medicine stored at these clinics.

This prompted the hospital to look around for solutions that would help them monitor the power status at their clinics. NTG suggested its PowMon solution, after extended meeting and demonstrations, our marketing team convinced the hospital that this system could alert them of clinics with power lose of more than 30 minutes.

The system that was deployed includes 200 monitoring devices, a central server and an SMS gateway.

The 200 monitoring devices monitored for power outages and reported as soon as there was a power loss in the clinic to the central system, the central system keeps track of the clinics without power.

The central server will alert all parties involved of a power loss of more than 30 minutes. The hospital acquired 4 mobile generator units, when ever there was an alert send to the driver by the central server the generator was delivered to the clinic. The server also has a priority list of clinics that can be updated by the administrator. The driver is guided by the system to Identify which clinic was to be given the generator first, in case there are more than 4 power failure again the priority list is send to the driver by SMS.

Total Cost of Deployment : 3500\$

2. BPL Mobile Kerala :-

The company required to monitor the power status of their mobile towers, their towers have a generator that automatically starts when the power fails, however they where having some towers going off due to prolonged power failure. NTG PowMon was deployed at 55 tower sites.

The central system keeps track of the power status and also provides a report on how many hours the Generator was used. The staff responsible for refilling diesel in the generators had the option of reporting refills of the Generator tank by SMS to the system. The system alerts them with number of hours the generator has operated after the last refill each time the generator starts automatically on power failure.

3. Police Tirunneveli Tamilnadu:

This was a complementary project deployed as part of NTG's marketing strategy for PowMon. The Tirunneveli police unit has automated traffic junctions all over the Tirunneveli City and also where facing trouble with robbers cutting power to a street and robbing houses.

The project was put forward as a project with community leaders involved. The central system and the status monitoring devices where provided for free by NTG. The Status monitoring devices where installed at all Traffic junction lights and at key houses at 40 Streets.

As soon as there was a power outage at any of the traffic signals the Police officer responsible for that area was sent an alert on his Phone as an SMS. This enabled him to attend to the junction and avoid a traffic situation.

As for the streets when ever there was a power failure detected in the street, the streets representative chosen by the Police received an SMS confirming if the street had lost power or not. He had to confirm by replying with a secret pin and a yes or no. If the response is yes the patrol vehicle responsible for that area of the town received an SMS alerting of the situation.

The results of the deployment where amazing, there was a reduction in robbery by up to 28% in the months following the deployment.

4. Kerala Electricity Board:

Kerala Electricity board has deployed 150 units of PowMon to monitor power status at its various branches. This enables them to respond to power outages in less than 10 minutes. The current deployment is a test deployment and covers one fourth of the Triponithura City. The system alerts the local Lineman responsible for maintaining the power at the given branch as soon as power outage is detected. Out of the 150 units 75 units are deployed at factories and other large power consumers like Shops, they were selected because the power availability is a critical issue for their operation.

These are just a few case studies selected from over 100 deployments of PowMon in South India. The company has decided to expand its operation to international markets also.

Contact Information:

Find your nearest contact by going to our website <http://ntglobal.org>