

Installation Case Study: 003

Hotel Novo Horizonte, Dili, East Timor,

AllSolus



AllSolus Pty Ltd

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In January 2014, Si Clean Energy Pty Ltd designed, supplied and installed an AllSolus energy monitoring system at Hotel Novo Horizonte in East Timor. The system was installed so as to provide an energy management tool with a Web Portal display for the hotel to monitor and manage electricity costs.

AllSolus Access Web Portal

AllSolus LiveBASE

AllSolus MeterLINK with external antenna

AllSolus EnviroLINK

Bi-directional Wattmeter

Installation completed January 2014

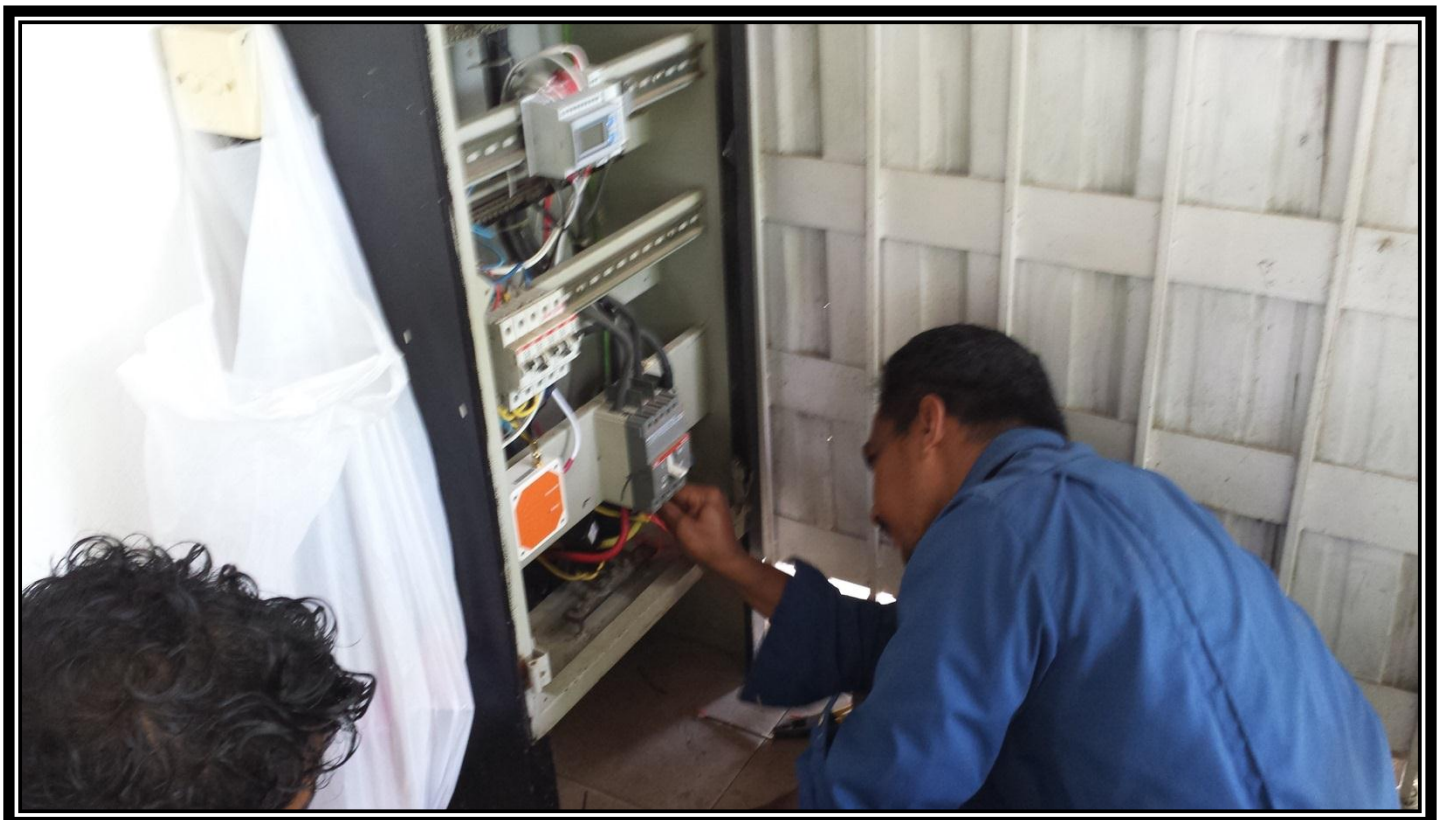


Fig. 1. Installing a MeterLINK into hotel accommodation block A electrical board

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As in many countries around the world, electricity costs in East Timor have dramatically increased recently. Hotel Novo Horizonte, like many businesses wanted visibility on their electricity consumption so as to gain an understanding of where efficiency could be gained and costs lowered. The below screenshot of figure 1 shows the electricity cost data for one of the accommodation blocks in the first week after the AllSolut system was installed.

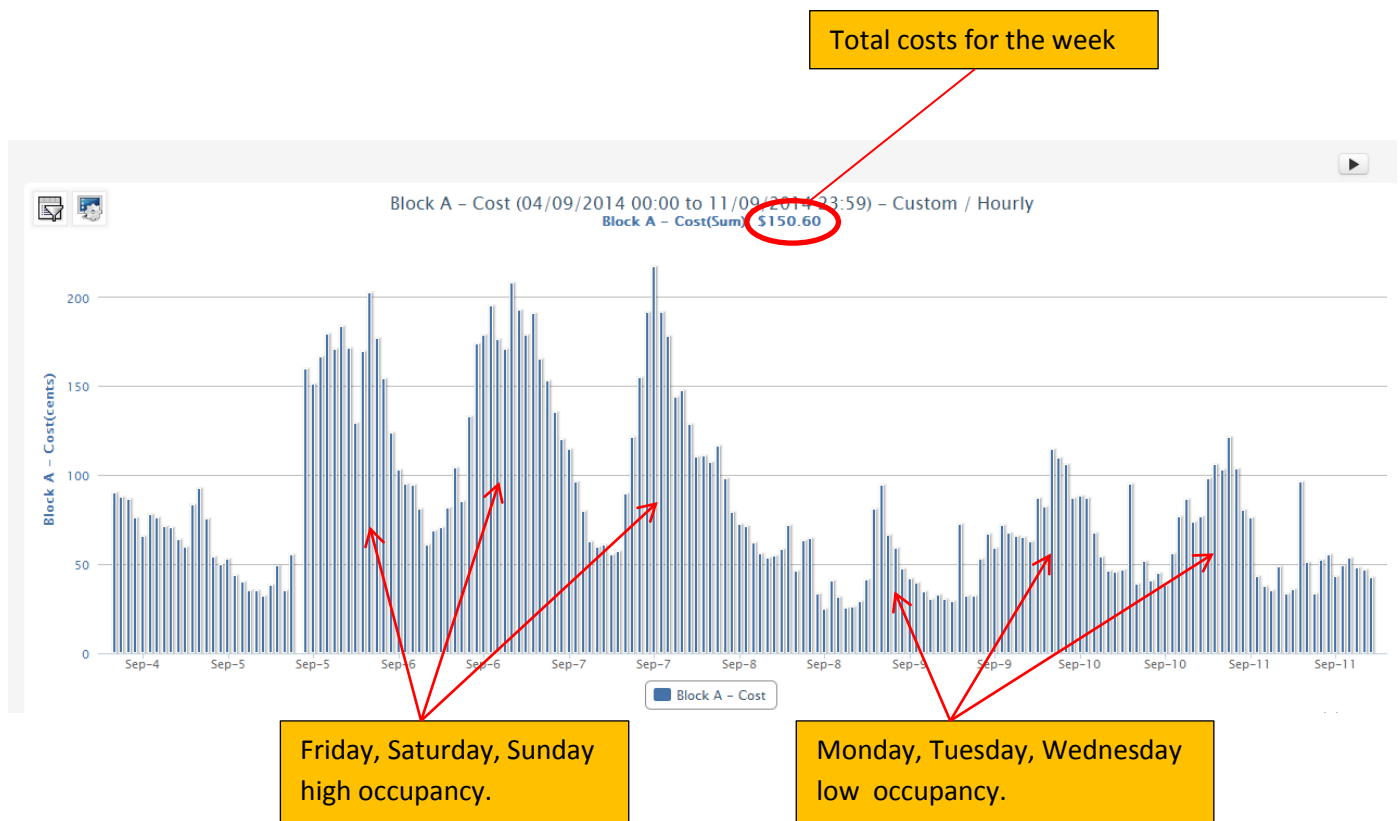


Figure 2. AllSolut web portal screenshot

The AllSolut web portal allows the customers electricity tariffs to be entered. The costs are then displayed in real time and allow hotel management to routinely check that costs are within budget. The display resolution can be adjusted as required from monthly, to daily, to by the minute providing great detail and dynamic visualisation of the dollar costs incurred.

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Figure 3. EnviroLINK installed on top of the conference building. Dili hills are in the background.

One of the crucial factors in understanding the hotel's electricity costs is to have visibility of ambient temperature. The installed EnviroLINK measures both ambient temperature and sunshine irradiance. The collected data is then displayed on the web portal and demonstrates the correlation between temperature and the air conditioning and refrigeration loads. The hotter the day, the harder the air-conditioners and fridges have to work. East Timor is a very hot place, so the below chart helps the hotel management understand that any actions that neutralise the effects of heat have a direct cost benefit.

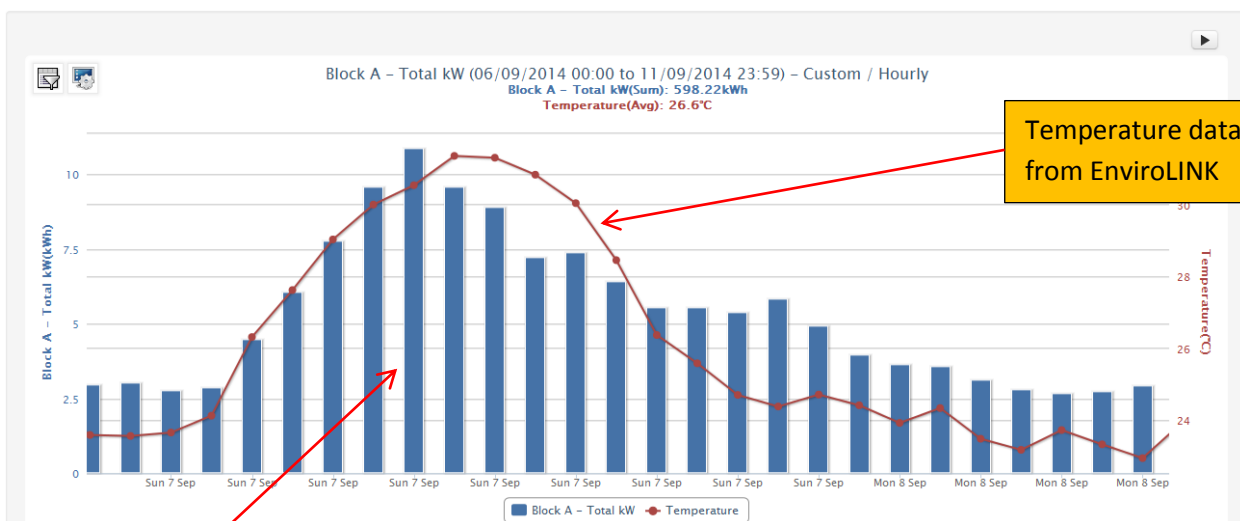


Figure 4. AllSolutus web portal screenshot

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Hotel Novo Horizonte is typical of many commercial operations in which a number of buildings are dispersed over a large area. Retro fitting an energy monitoring system that connects the various metering points with cables would cost prohibitive and in some case not physically possible. The AllSolut components uses high powered radio signals to connect with each other. The AllSolut wireless technology reliably traverses long distances (up to 20km line of sight) or over shorter distance it will penetrate through walls and buildings. This makes for significantly lower installation costs, as no long and tedious cable runs are required.

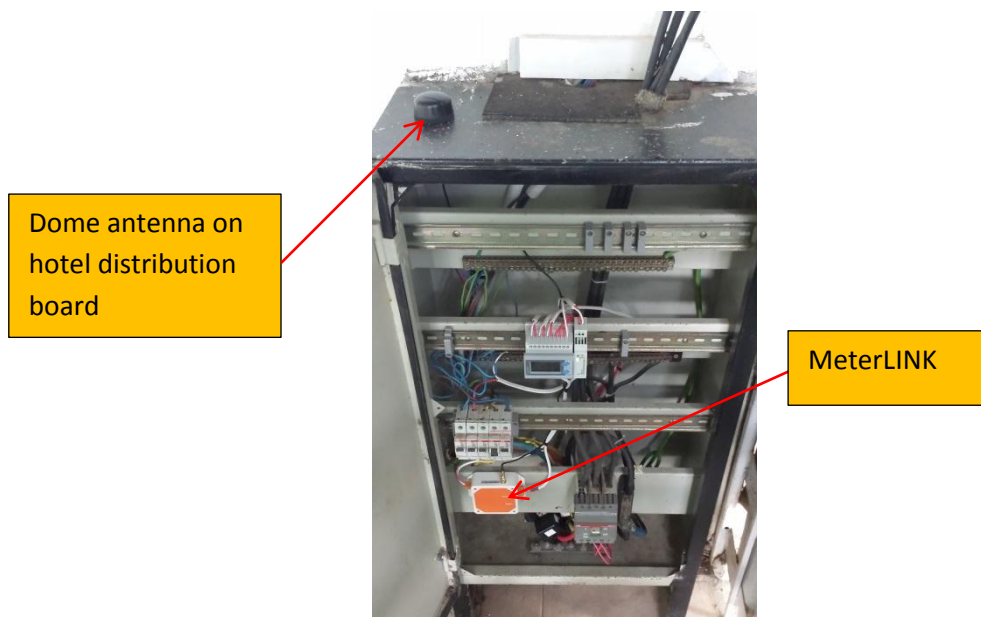


Figure 5. MeterLINK at Accommodation Block A



Figure 6. Hotel compound, Dili, East Timor

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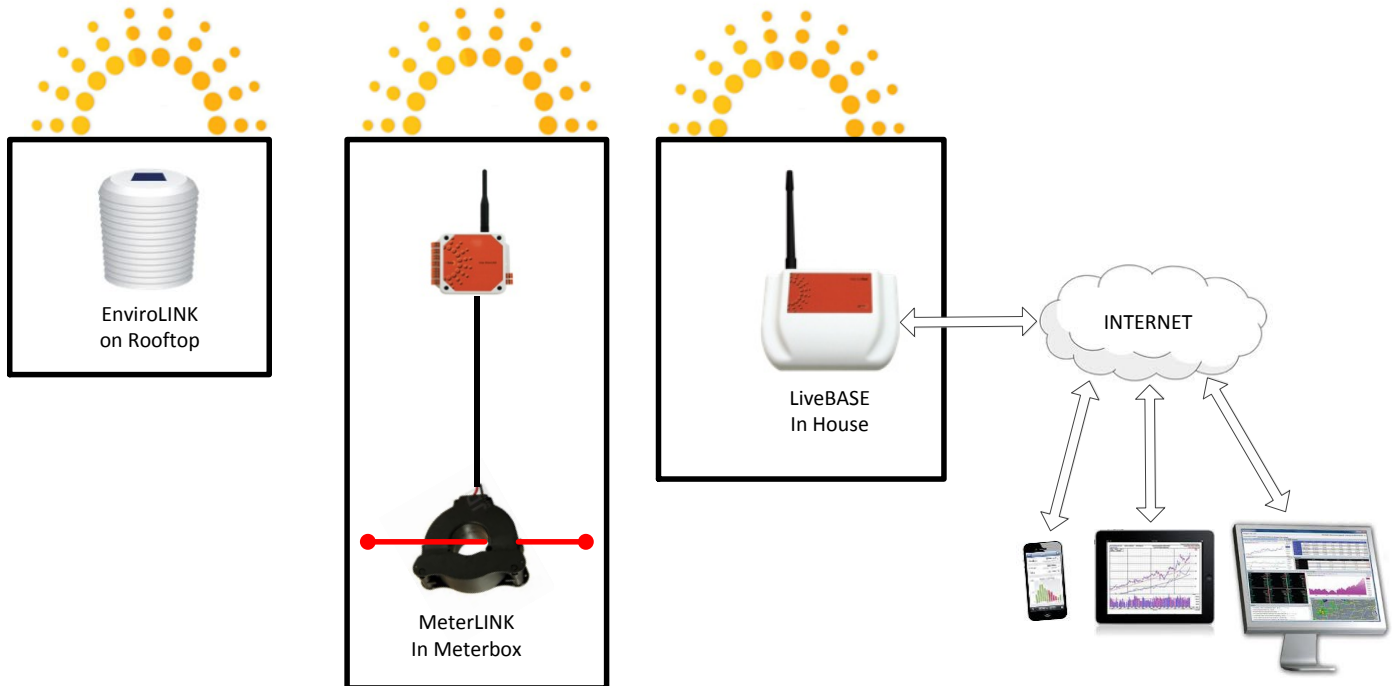


Figure 7. AllSolut system components and operation

Conclusion

The AllSolut energy monitoring system enables in real time the internet display of energy flow and site weather information on smart phones, tablets and computers. This enables the customer to manage their energy consumption to their advantage. In this way significant cost savings can be realised. The AllSolut energy monitoring system therefore provides a significant return on investment by providing the tools to reduce electricity bills.

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