



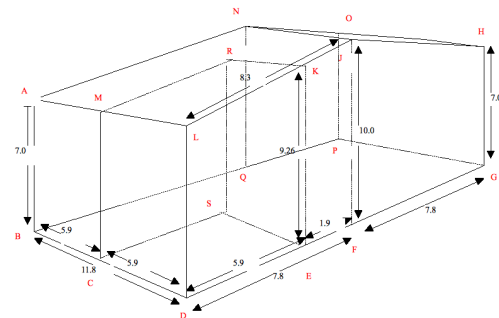
Case Study

Powering a Multimedia Centre

Enquirer: Mutuelle Jeunesse Active
Country: Democratic Republic of Congo

Rodolphe Mazombo Menga from MJA got in touch with EngineerAid looking for help in determining the size of a generator required to power a computer training centre, and additional information on how to connect the computers to the internet.

With frequent power-cuts on the national grid, the centre required a generator to power two buildings of 20 computers each, as well as lighting and other appliances.



Calculating the heat inside the building gained from the sun, which will increase the power load of the Air Conditioning unit

Got a technical problem on an International Development Project?

Request our services by emailing contact@engineeraid.com

EngineerAid provided **free** assistance with various calculations for the centre, including:

- **Number, Power and Position of Lights** needed
- **Estimated heat generated** by people, equipment and the sun on the outside to calculate the **air conditioning power** needed to maintain a comfortable temperature
- **Estimated peak and average electricity requirements** for each room including daily and seasonal variations
- Choosing a **generator** to meet this load
- Information on **networking** PCs to connect to the internet and the various options, including **mobile** and **satellite** links



The finished computing centre

Could **you** help on a project like this one?

To **volunteer** or make a **donation** please email contact@engineeraid.com or visit our website at www.engineeraid.com

Uvira is a rural territory in the province of South Kivu in the DRC. A tour of its primary and secondary schools showed that none of the students or the teachers had ever seen a computer.



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