

# Remote Cell Site Prime Power with VariPower Hybrid Unit



Remote cell towers (BTS) in many cases do not have access to a regular grid connection this then requires prime power to be provided by a diesel generator. These often run 24 hours a day to provide constant power to ensure that mobile phone coverage is continuous. Using this method of prime power in a remote location can increase operational costs significantly due to fuel usage and services.



## Case Study

### VariPower 20 Hybrid Power



VariPower is the very latest in hybrid power systems developed by Energy Solutions and has been explicitly designed to overcome the high operational costs associated with running diesel-powered generators as prime power 24/7. The combination of battery storage and a variable speed engine help to drive the running time of the engine down and the speed of the engine according to the load. These reductions significantly reduce fuel usage and as the engine run time is minimised it also reduces the amount of service's required, which can be expensive in remote locations.

In a recent deployment, VariPower was used to power a remote BTS in the North of England, during the first 1 month, it showed a 68% reduction in runtime with an 80% fuel and servicing saving.

This fuel saving reduced the related emissions of CO2 and PM2.5 by up to 80 %, and further savings will be made by the use of renewables which are easily integrated into the VariPower system.



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