

Keeping you connected



Telecommunications





FG Wilson has been serving the needs of the telecommunication sector for over 47 years, with our diesel and gas generator sets.

Along with our network of 125 Dealers we deliver reliable power product globally and provide expert support locally.

Extended Service Intervals (ESI)

The FG Wilson telecoms range, powered by Perkins 400 series engines, can offer 1,000 hrs running between services.

Compared to many competitor generator sets (250 hr service interval), this significantly reduces maintenance frequency and overall operating costs.



Extended Running Fuel Tanks

Our experience working with major telecoms operators has led us to design long running fuel tanks with added security in mind. We have developed a standard range of 600, 1,000 and 2,000 litre tanks, either single or double walled. Because everyone has different needs, our mechanical engineers can customise these fuel tanks to meet individual requirements.

Each fuel tank is fitted with:

- Lockable fuel fill point cabinet
- Sight gauge
- Fuel level monitoring system
- Sloped tank for excess water run off

Optional items:

- Cable duct trays to prevent rodent access
- Access steps on 2,000 litre tank

The FG Wilson offering is particularly suited to remote telecom sites. ESI alongside extended running fuel tanks allow fewer visits for fuel replenishment and generator set servicing, significantly reducing operating costs.

Typical site example:

11 kVA generator operating in a hybrid system - generator set will run for 4 hrs per day @ 75% load to recharge the site batteries.

Fuel replenishment:

P11-6S uses 2.7 litre fuel per hour. 4 hrs per day. Daily usage 10.8 litre

600 litre tank = 55 days

1,000 litre tank = 92 days (3 months)

2,000 litre tank = 185 days (6 months)

Servicing – 4 hrs per day with 250 days between services



600L tank
Fuel Replenishment

55 DAYS



1,000L tank
Fuel Replenishment

92 DAYS



2,000L tank
Fuel Replenishment

185 DAYS

Isolated Locations

Many telecom towers are located in remote locations, such as mountain tops. This, combined with limitations in infrastructure and transportation, renders many sites difficult to access.

Our enclosure design therefore includes a strengthened single point capable of lifting a generator set together with up to the 1,000 litre double walled tank.

Where an air lift is required, this single point lift allows a single helicopter journey, facilitating an efficient and cost effective installation.





Control systems

Flexibility is one of our primary objectives when it comes to your control requirements. Our generators are fitted with the FG Wilson standard control systems, DCP10 or DCP20, and can be easily upgraded to our PowerWizard range of enhanced controllers.

Alternative customer preference and individual site requirements can be fully accommodated by our engineers who will tailor a package specific to your needs. We frequently incorporate tailored control solutions from suppliers such as Deepsea Electronics, ComAp and Lovato.

All of the aforementioned control equipment suppliers offer remote communication packages, allowing you to monitor and control your equipment from the office or while on the move.

Many control panel packages now feature smartphone apps that provide access to individual generator set parameters and generate notifications of any issues on site. Advance knowledge of an issue enables you to delegate the appropriate resource, saving wasted visits and ultimately, money.



On-grid sites

Those sites that primarily run off the grid can use the FG Wilson range of load transfer panels. These panels monitor the mains and upon a mains failure, automatically start the generator and transfer the load to the set.

When there is a healthy mains, the panel will transfer the load back to the grid, and after a cooling down period, shut off the generator. The system is then ready to react to the next potential mains failure. Such systems can be supplied as loose panels or incorporated onboard the generator set package.

A number of options are available including lightning protection and outdoor, IP54 enclosure.



Security

As cases of fuel theft and vandalism have increased, security has been an integral element of our product design.

Our telecoms range incorporates security features to protect your investment and give you peace of mind:

Fuel system security:

- Lockable fill point cabinet
- Concealed fuel pipework between generator base and fuel tank.

Enclosure security:

- Optional GPS tracking
- Canopy door padlockable handles
- Padlockable steel locking system to prevent unauthorised entry to enclosure.





On grid: single unit, back up to the mains

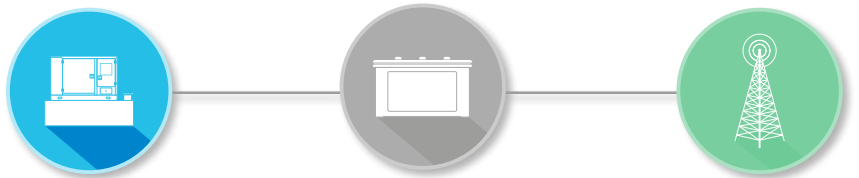
Pros	Cons
Low CAPEX, long equipment service life	High - OPEX



Off grid: isolated sites

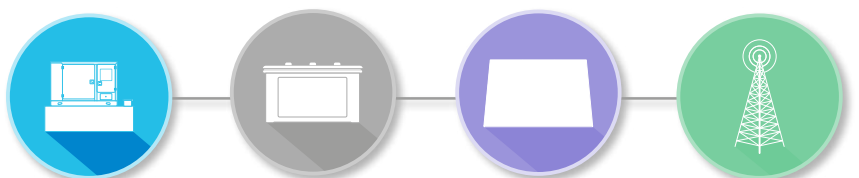
Twin units on cycle timer, no mains

Pros	Cons
Low CAPEX, long equipment service life	High - OPEX, high maintenance frequency



Generator set and battery hybrid system

Pros	Cons
Low OPEX, low generator running hours, very quick investment turn around, long maintenance intervals	High CAPEX, battery replacement



Generator set, battery and solar panel hybrid system

Pros	Cons
Very low OPEX, lower generator running hours, quick investment turn around, very long maintenance intervals	Cons - high CAPEX, battery replacement

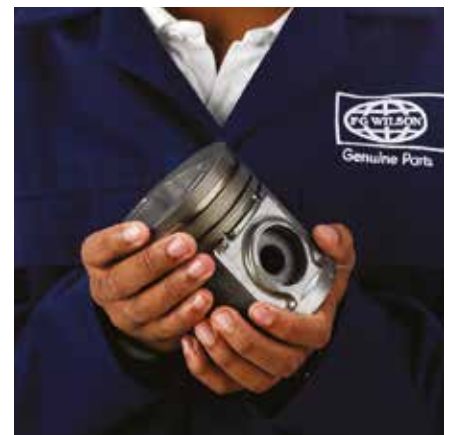


Local Support

We can meet your power needs wherever you are in the world. Our Global Dealer Network ensures that FG Wilson product is available locally and that customers are expertly supported.

Our Dealers are experts in serving product maintenance needs including emergency breakdown coverage and routine servicing. Equipped with state of the art parts identification and ordering software, FG Wilson Dealers can ensure you have access to the right parts, at the right time with a full warranty.

Together with our Dealers, FG Wilson offers the highest levels of support to each customer – before, during and after each power installation.





www.FGWilson.com

To ensure you stay connected to success make sure you choose FG Wilson for all your telecommunication needs. For further information on the generator range available for telecoms use, please contact your local dealer or visit **www.fgwilson.com** to request a quote.