

GRIDLINK

Private Wire Energy Solution

Connecting Local Generation
Directly to Local Demand





WHAT IS GRIDLINK?

Gridlink provides a controlled electrical interface between a generator and a private consumer. It allows part or all of the generator's output to be delivered directly to the consumer, either:

- As an **islanded supply**, operating independently of the public grid, or
- As part of a **dual connection**, operating in parallel with an existing grid connection while maintaining defined and controlled power flow.

The system is centred around a power electronics converter that manages voltage, frequency, and active power flow, ensuring that energy is delivered safely, predictably, and in accordance with applicable network and equipment standards.



WHY USE A PRIVATE WIRE?

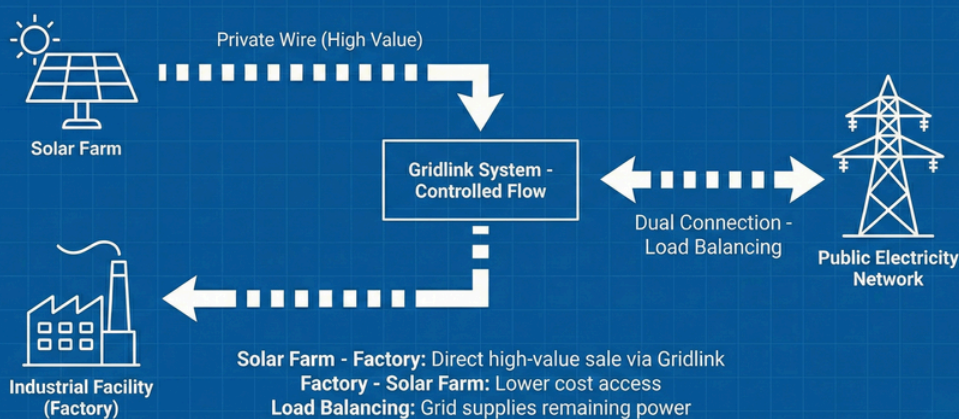
Private-wire connections allow locally generated energy to be used where it is produced, avoiding unnecessary export to the public grid. Gridlink enables this arrangement without compromising network stability, protection coordination, or power quality.

By regulating power flow and operating conditions at the point of connection, Gridlink provides a practical means of implementing private energy supply arrangements in technically complex network environments.

The Gridlink system provides a controlled private-wire interface that allows a generator to supply part or all of its electrical output directly to a private consumer. The system can operate either as an islanded supply or as part of a dual connection, operating in parallel with the public electricity network while maintaining controlled power flow to the private load.

GRIDLINK ENABLES A SMARTER WAY TO CONNECT LOCAL GENERATION DIRECTLY TO LOCAL DEMAND

Private Wire Solution: Industrial Application



For the generator, Gridlink enables direct energy sales to a private consumer at a higher unit energy value than conventional export to the public grid. This improves project revenue while retaining flexibility over how much energy is supplied privately versus exported.

For the consumer, Gridlink provides access to electricity generated locally via a dedicated private-wire connection, typically at a lower unit energy cost than electricity supplied via the public grid. This arrangement reduces exposure to grid pricing, and network constraints, while improving security of supply.

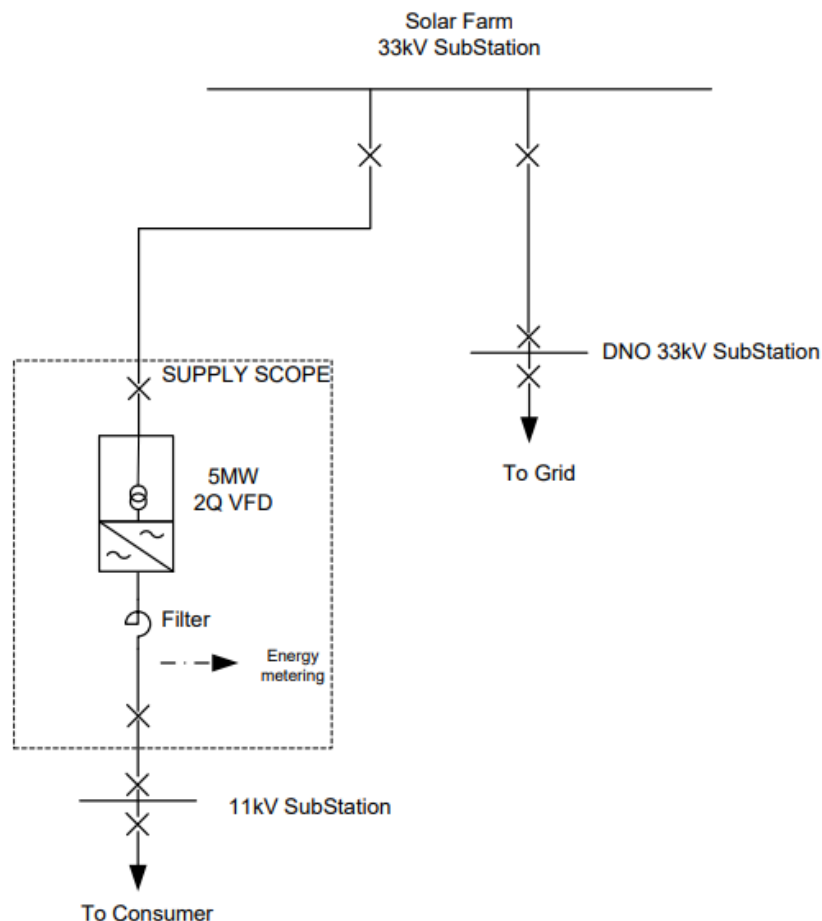
SYSTEM OVERVIEW

At the core of the Gridlink system is a power electronics converter that regulates active power flow from the generator to the consumer. The system is designed for one-directional delivery of active power, ensuring that energy flows only within the defined private network.

The converter system:

- 01** Controls voltage and power quality at the point of connection
- 02** Manages active power transfer between generation and load
- 03** Prevents unintended export beyond the private-wire arrangement
- 04** Provides reactive power control to compensate for interconnection impedance

The system is supplied as a modular, factory-assembled solution suitable for outdoor installation adjacent to existing high-voltage infrastructure.

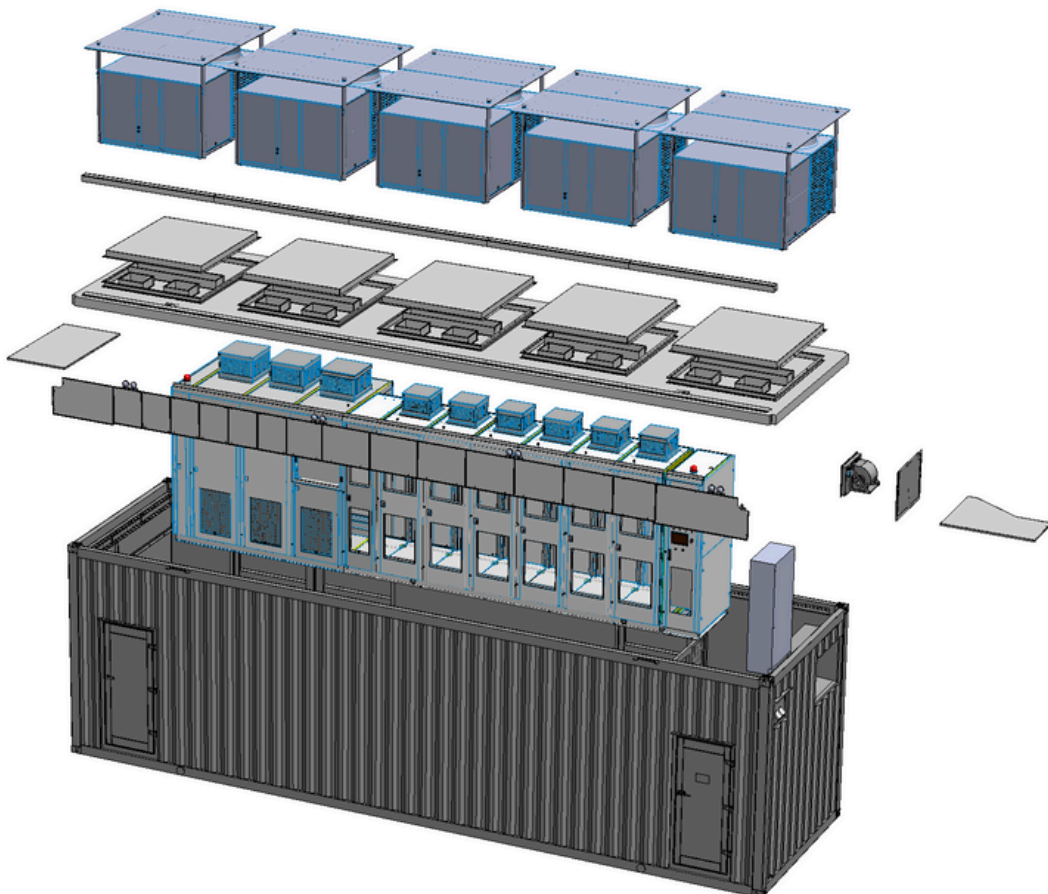


STANDARDS AND COMPLIANCE

Gridlink is designed to comply with applicable regional and international electrical standards governing:

- 01** Generator and load interconnection
- 02** Network voltage and frequency limits
- 03** Power quality and harmonic performance
- 04** Electrical safety and equipment design

The system is capable of operating within defined network voltage and frequency tolerances and is engineered to meet the compliance requirements of local utilities and regulatory authorities applicable to the project location.



A PRACTICAL, FUTURE-READY SOLUTION

The Gridlink architecture is inherently flexible, allowing it to be adapted to different network voltages, generation technologies, and consumer loads. Its modular design supports future changes in operating strategy, regulatory requirements, or commercial arrangements without fundamental redesign.

This makes Gridlink suitable for a wide range of applications, including industrial facilities, utilities, infrastructure operators, and renewable energy projects seeking a technically sound and commercially effective private-wire solution.



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