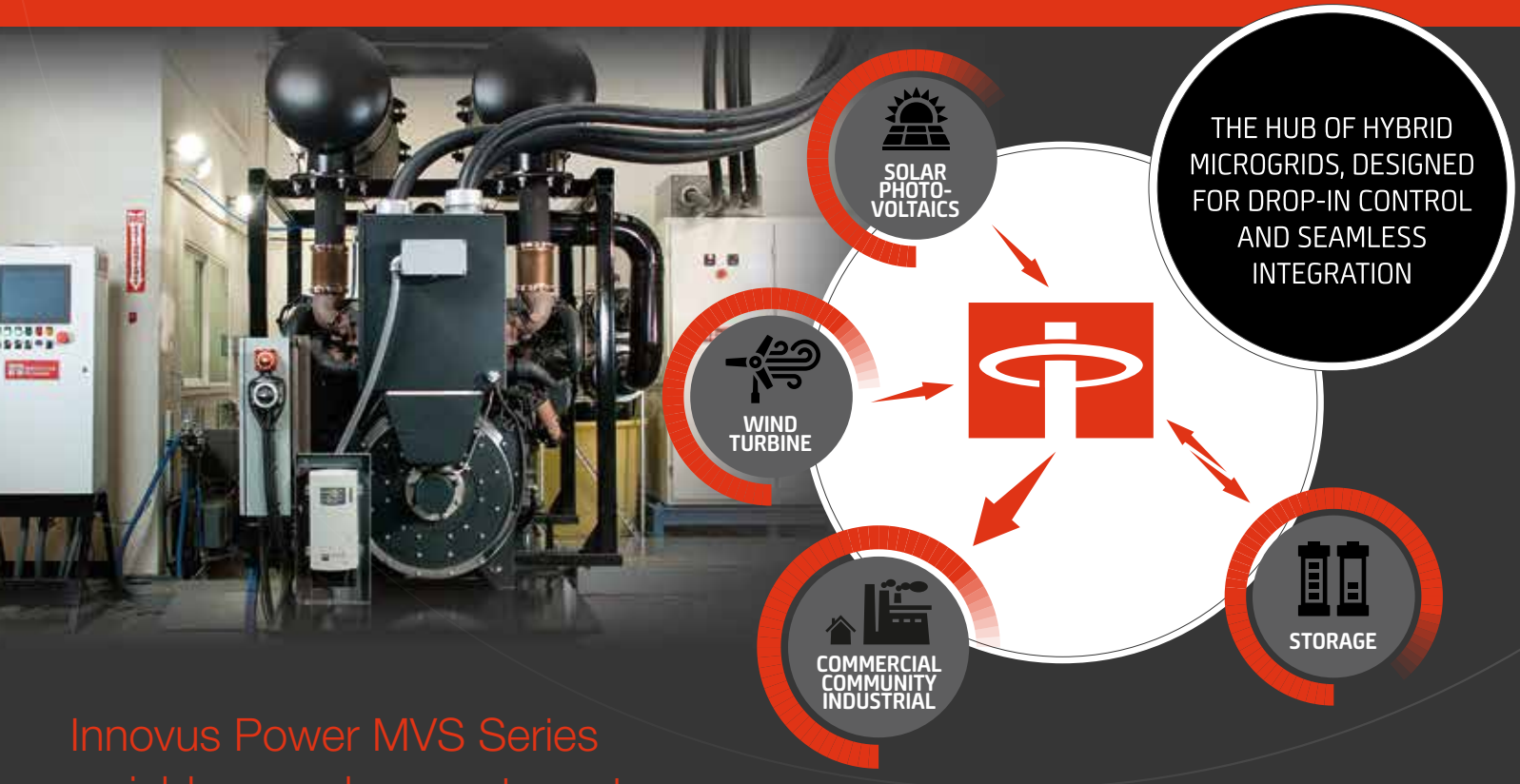


# The World's First Commercial, Primary Power Variable Speed Generator Sets



Innovus Power MVS Series variable speed generator sets deliver up to 35% lower operating costs and emissions.

Based on the GridGenius™ Platform, Innovus Power variable speed generator sets become the cornerstone of modern hybrid microgrids. With plug and play deployment and centralized control, your hybrid power systems will dispatch hybrid sources with greatest efficiency and always deliver the lowest cost power.

## Innovus Power MVS Series Generator Sets Applications:

- ▶ Remote off-grid (including commercial) locations
- ▶ Construction sites
- ▶ Diesel– Renewable hybrid systems
- ▶ Oil platforms, oil service support operations
- ▶ Commercial marine
- ▶ Mining, rock crushing
- ▶ Driving large motors, compressors, pumps
- ▶ Military mobile and stationary power

# Addressing the Need of Primary Power Users

For more than 100 years, generator sets have been designed to run at one fixed speed to assure stable frequency and voltage. At light loads, the reciprocating engines powering these fixed speed generator sets operate with considerably less efficiency and suffer maintainability problems such as wet-stacking and coking.

In contrast, the Innovus Power variable speed generator set operates with superior efficiency at all loads without adverse effects to the engine. This design allows the engine to run only at the speed necessary to deliver the load power leading to great fuel economy.

Our variable speed generator sets are built on our scalable platform, GridGenius™, which allows multiple generator sets and hybrid power sources to be integrated into a single system. In a first for hybrid microgrid power, all power becomes 100% dispatchable, meaning that the system will automatically utilize the most efficient renewable or grid energy source to its greatest capacity and supplement or fully dispatch the variable speed genset. This allows Innovus Power to deliver the most scalable and efficient microgrid power systems available.

## GridGenius™

### The World's Most Advanced Hybrid Microgrid Platform

Innovus Power has created a microgrid power generation and grid management system which is designed into our MVS series variable speed generator sets. GridGenius instantaneously delivers the highest quality power with the lowest possible cost and emissions. Deployment is plug-and-play, even with complex power systems and renewable power sources.

- ▶ Scalable integration of renewables with dispatchable genset grid power ramping from 0% to 120% of generator set capacity minimizing the need for storage and virtually eliminating curtailment
- ▶ Dynamic power factor correction of +/- 20% maximizes power quality and grid stability - delivering the cleanest, lowest cost grid-integrated power
- ▶ Eliminates hardware redundancy needed for grid stability through direct integration with renewable and dispatchable grid power sources

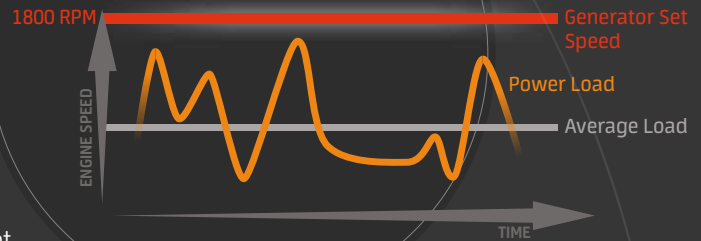
## Introducing the Innovus Power MVS Series

### The First Variable Speed Hybrid Microgrid Ready Generator Sets

- ▶ 100% dispatchable power starting at 600 kW with scaling linearly in 600 kW increments
- ▶ 10-35% lower operating costs - variable speed generator sets quickly pay for themselves
- ▶ 5-40% lower emissions resulting from lower fuel use and more efficient burn
- ▶ Up to 30% quieter than fixed speed generators
- ▶ More than 100% penetration of renewables in diesel hybrid systems

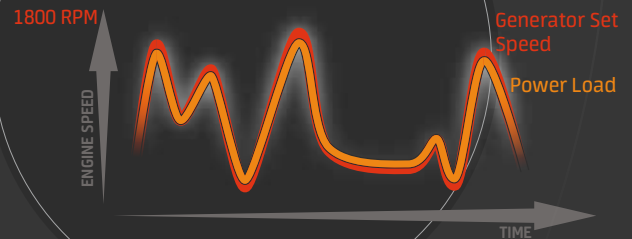
### Traditional Fixed Speed Generator Set

Generator Set Runs at Fixed Speed At All Times



### MVS Series Generator Set

Generator Set Speed Mirrors Power Demand



Call 510.683.6122 or email [info@innovus-power.com](mailto:info@innovus-power.com) to learn more about our groundbreaking products.