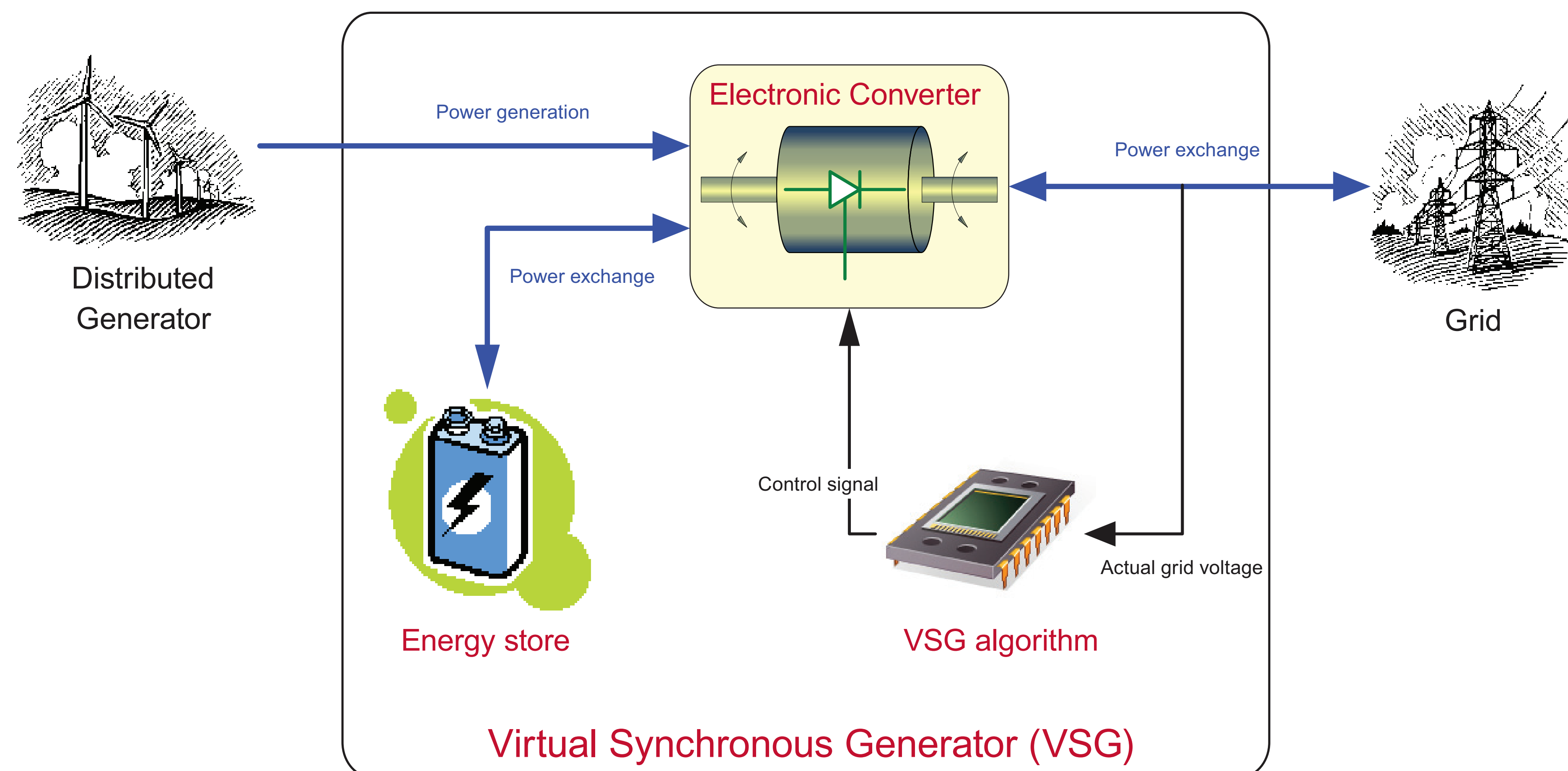




VSYNC - Virtual Synchronous Machines

For Frequency Stabilisation In Future Grids

With significant Decentralised Generation



When in future decentralized generation units replace a significant part of the synchronous power generation capacity, the total **rotational inertia of the system is decreased** significantly.

The rotational speed fluctuations of the synchronous generators become much higher than at present, ending up in an unstable grid.

Virtual Synchronous Generators **emulate rotating inertia for limited time intervals**, thereby giving balancing algorithms, control and protection devices **ample time to restore normal operation** in the system in case of faults or contingencies.

