

## POWER GRID SYSTEM AND METHOD OF CONSOLIDATING POWER INJECTION AND CONSUMPTION IN A POWER GRID SYSTEM

### ABSTRACT

5 A power grid system and a method of consolidating power injection and consumption in a  
power grid system. The power grid system comprises a power grid; at least one load  
connected to the power grid; a first meter configured for metering power imported from the  
power grid to the load; at least one intermittent power source connected to the power grid, a  
second meter configured for metering power generated by the intermittent power source; and  
10 a consolidation unit configured for associating readings from the first and second meters such  
that at least a portion of the power generated by the intermittent power source is offsettable  
with the power imported from the power grid to the load.

Figure 1