

## Renewable energy management system

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A smart grid has advantages over existing power systems. It provides reliable and sustainable power for future generations; however, it has its demerits, which are related to security and privacy issues (McDaniel and McLaughlin, 2009). Control techniques are used to improve the performance of the smart grid. In this section, different types of control techniques for smart grids are discussed.

Then, the sensitivity of  $V$  to the specified VAR power  $Q_S$  is known as the block matrix LVQ of  $[J]$ -1:



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