

Keynote Address 2

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COULD SMART GRID RELIEVE THE BOTTLENECKS ASSOCIATED WITH RENEWABLE ADDITIONS?

Recently in many part of the world there has been an interest in decarbonising the electrical energy sector while minimizing the dependency on imported fossil fuel. This will require harnessing all possible renewable energy sources while promoting energy efficiency and conservation. This new environment will require an extensive use of modern information and communication technologies together with sensors, smart meters, fast simulation and modelling platforms, and power electronics from the supply side to demand side. The name “Smart Grid” has become common to describe this future power network. In this keynote address some of the key features of the “Smart Grid” are introduced. Then how Smart Grid could support the bottlenecks associated with renewable additions will be discussed.