

## Overview of Smart Grid Applications in Turkey

**Authors :** Onur Elma, Giray E. Kiral, Ugur S. Selamoğuları, Mehmet Uzunoğlu, Bulent Vural

**Abstract :** Electrical energy has become indispensable for people's lives and with rapidly developing technology and continuously changing living standards the need for the electrical energy has been on the rise. Therefore, both energy generation and efficient use of energy are very important topics. Smart grid concept has been introduced to provide monitoring, energy efficiency, reliability and energy quality. Under smart grid concept, smart homes, which can be considered as key component in smart grid operation, have appeared as another research area. In this study, first, smart grid research in the world will be reviewed. Then, overview of smart grid applications in Turkey will be given.

**Keywords :** energy efficiency, smart grids, smart home, applications

**Conference Title :** ICPESE 2014 : International Conference on Power and Energy Systems Engineering

**Conference Location :** Paris, France

**Conference Dates :** August 28-29, 2014