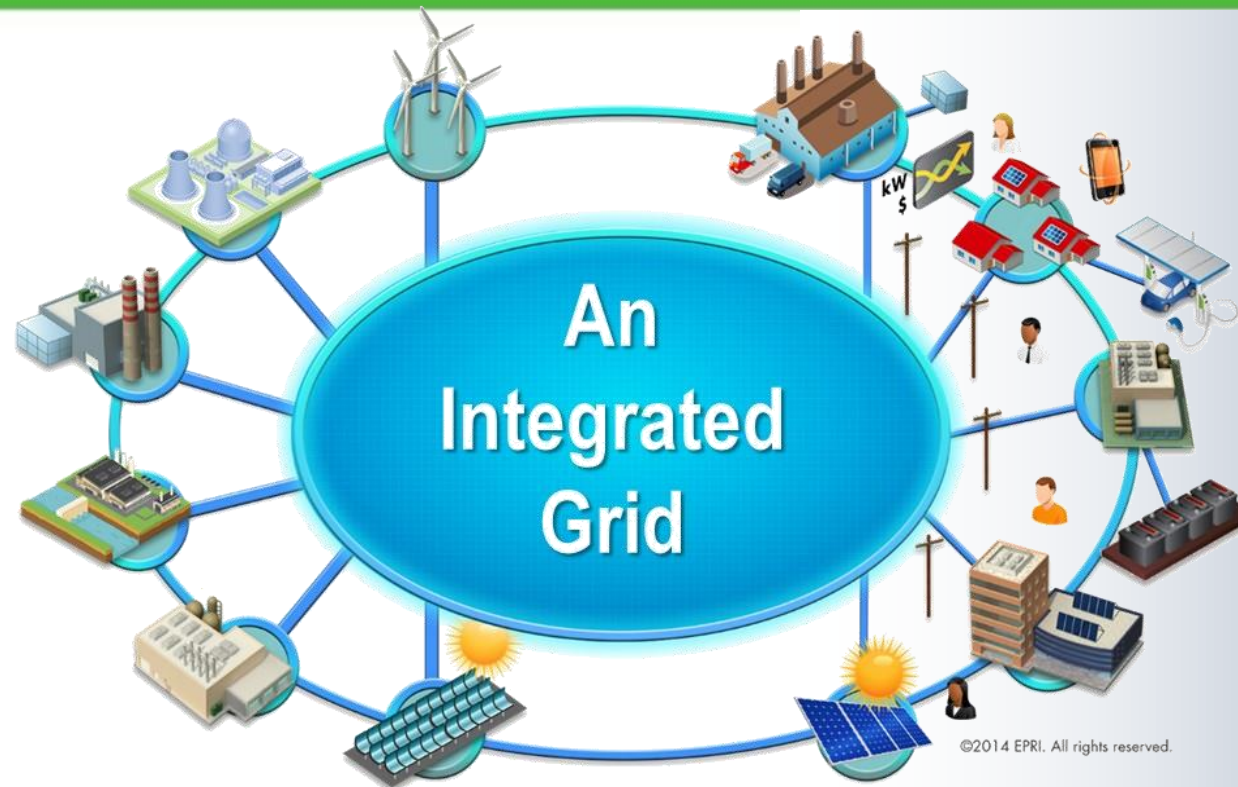


# Evolving Architecture of the Net Zero Power System

**Speaker :** *Mark McGranaghan, EPRI Fellow,  
EPRI Europe*

# The Vision of an Integrated Grid

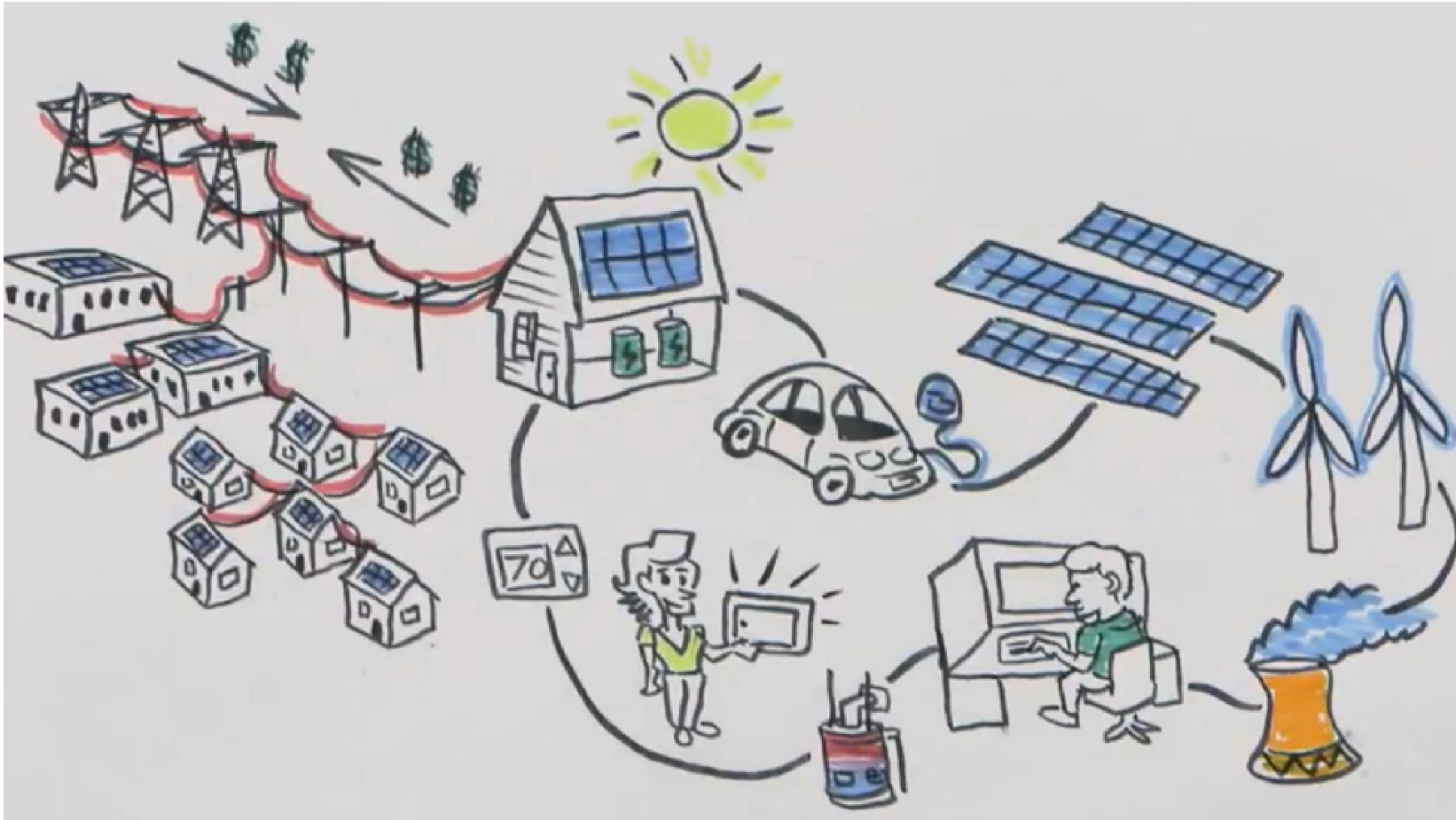
28 Feb – 04 March 2023 | New Delhi



Integration of:  
Electricity,  
Telecommunications,  
and Customer Local  
Energy Networks

The Integrated Grid Enables Local Energy Optimization  
to be part of Global Energy Optimization

# Key to Integrated Grid - Integrating the Customer and Community



<https://www.youtube.com/watch?v=PknNL0TnCxQ&feature=youtu.be>



1. **Architecture** for integration of resources at the customer and community levels
2. Shared **communication infrastructure** with **cyber security**
3. **Market and regulatory constructs** for flexibility and capacity
4. **Models and tools for planning** – Customers, Distributed Controls, Non-Wires Alternatives
5. Integration of Distributed Energy Resource Management Systems (**DERMS**) with Distribution Operations
6. **Platforms that integrate customer resources with distribution planning and real time operations**
7. **TSO/DSO coordination** – both planning and operations

