



هيئة مياه و كهرباء أبوظبي
Abu Dhabi Water & Electricity Authority

ADWEA Smart Grid Implementation Roadmap

John Carnwath (Transco) Smart Cities – Dubai

June 2014

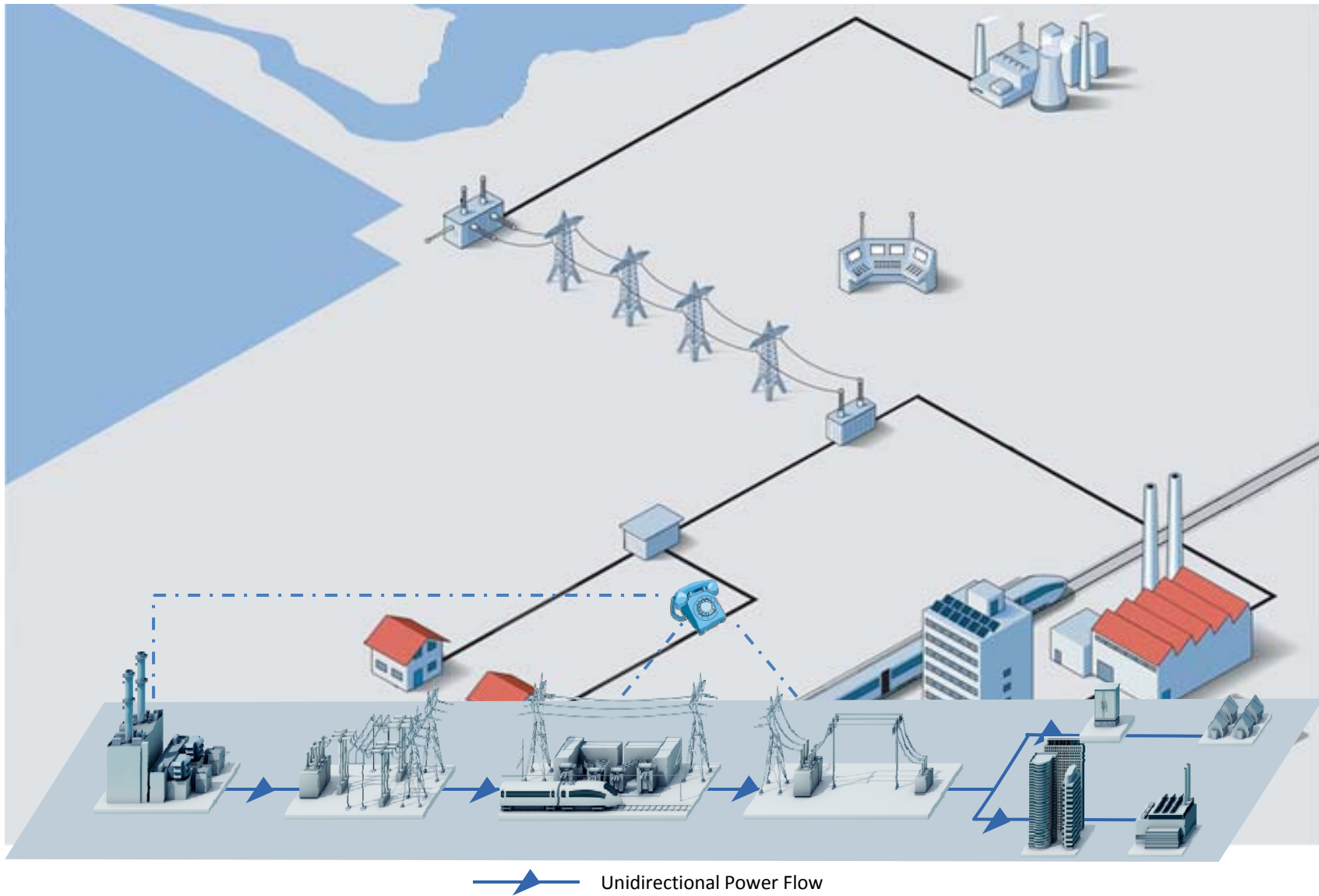


The Smart Grid and Revolutionary Change

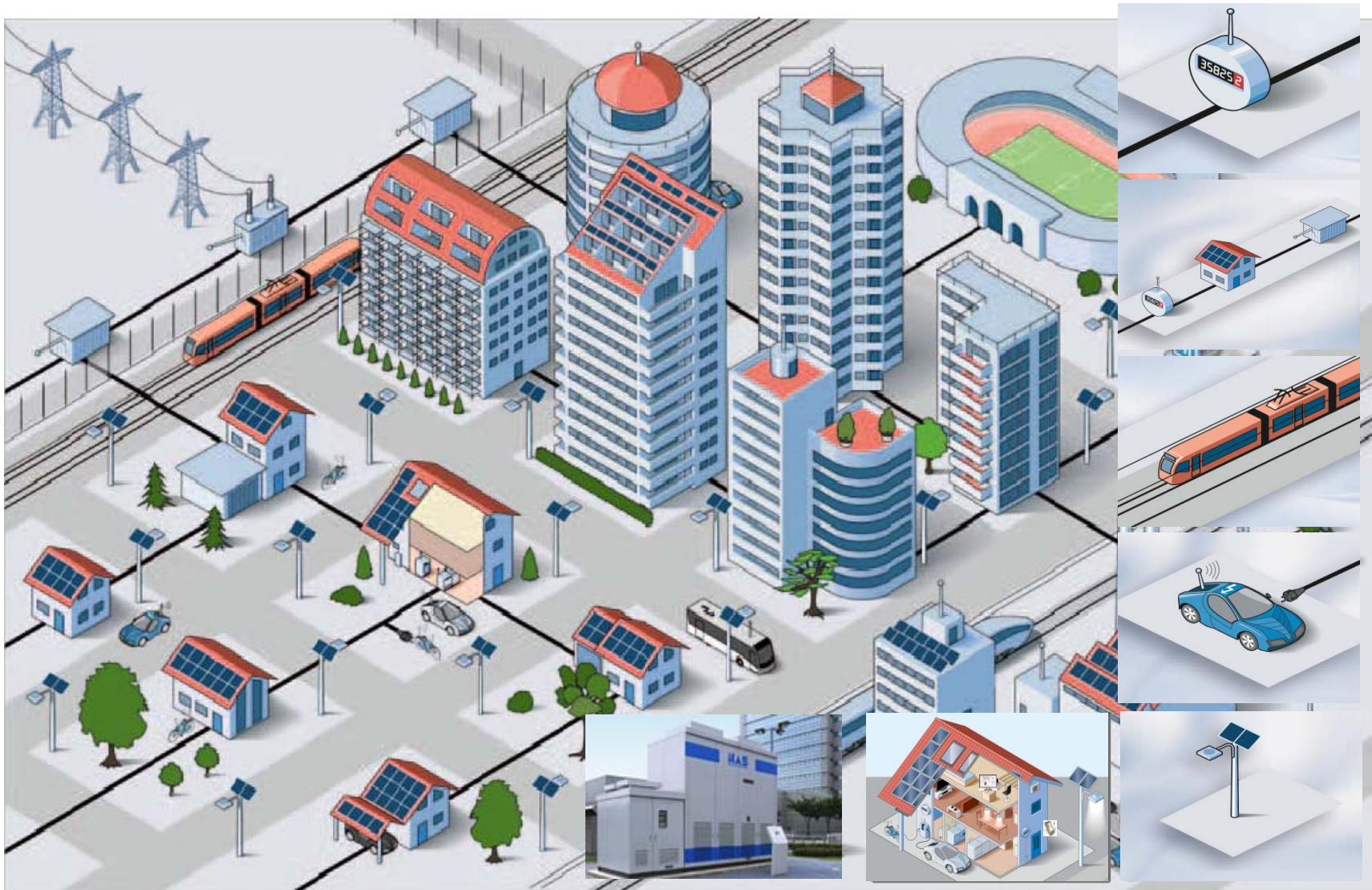
- There is no “smart grid in-a-box”
- Changes the way utilities operate their business
 - *real time management of the grid*
 - *real time management of customers*
- Utilities need to think about their application portfolio in a different way... operational applications need to become enterprise Solutions
- Utilities need new Solutions to manage their customers



Past – Conventional Network Architecture – Centralized Power Generation



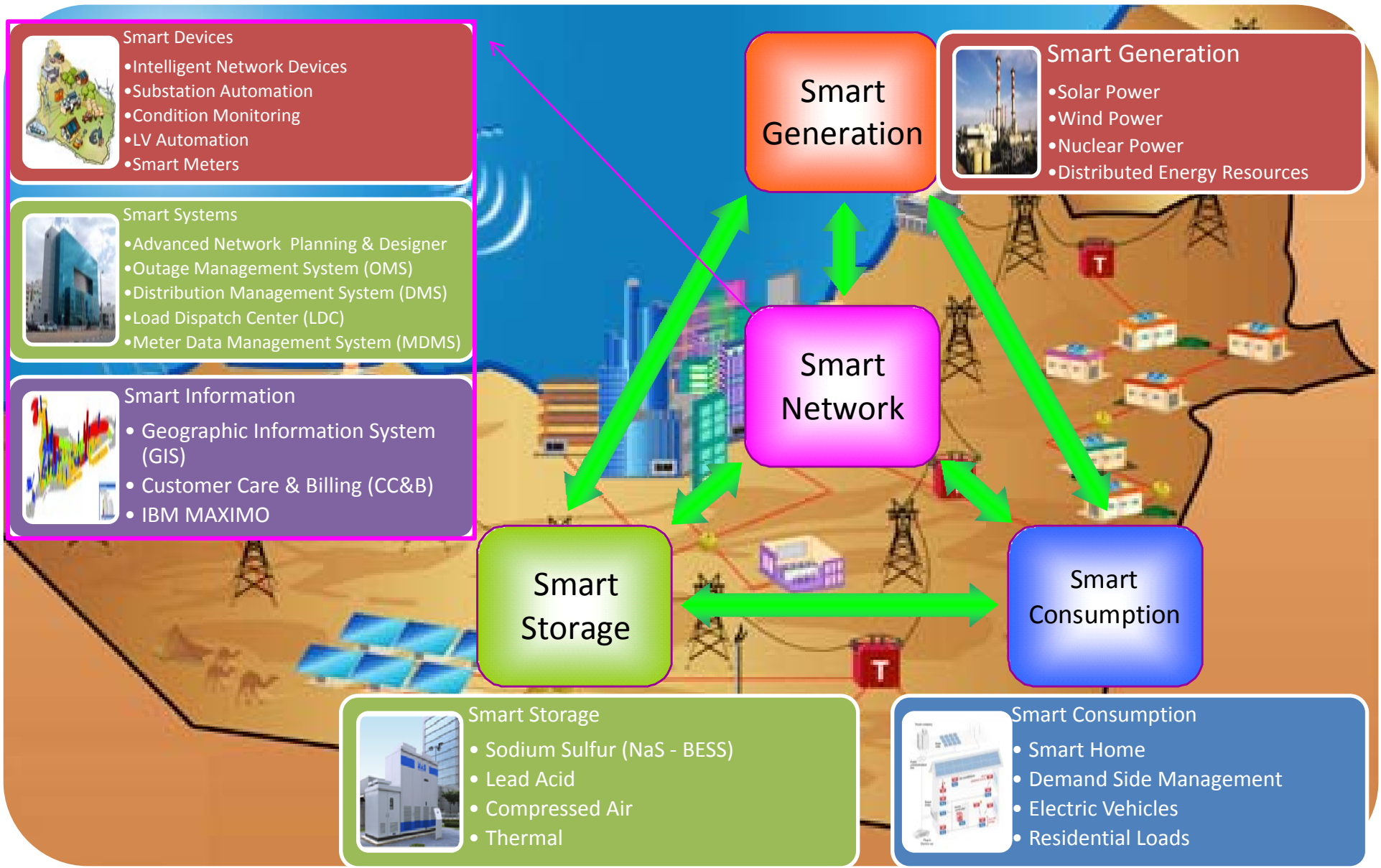
Future – Smart City

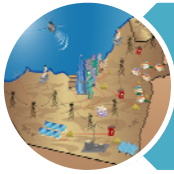


Smart Grid Transformation

Sr.	Conventional Networks From	Smart Grid Networks To Be
1	Unsustainable Energy System	Sustainable Energy System
2	Generation Follows Load	Load Follows Generation
3	Fossil Energy Sources	Integration of Renewable Energy Sources
4	Centralized Power Generation	Decentralized Power Generation
5	Outages and restoration are fault	Outage Prevention &

ADWEA Smart Grid Vision





ADWEA Smart Grid Roadmap Implementation Plan

ADWEA's path to Smart Grid is driven through a well-crafted vision and implementation strategy ...

