



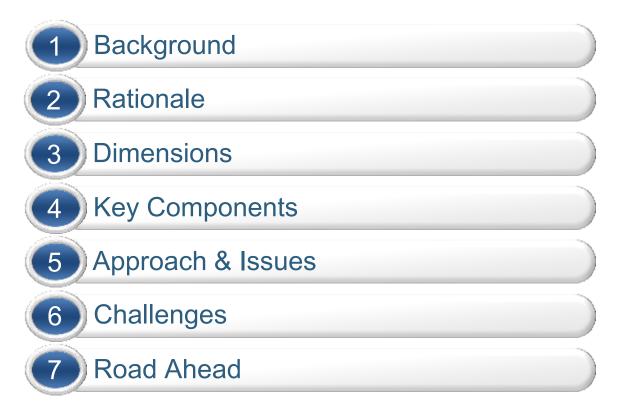
Moving Community Energy Forward 105" Annual Conference & Trade Show Seattle, Washington 1 June 8-11, 2014

Ramesh Ramadurai Empower

















- District Cooling is a credible alternative to traditional systems
- Most preferred energy efficient and environment friendly cooling solution
- Many entrants/early operators relied on bulk metering
- Customers not used to pay separately for cooling services
- Inequitable cost allocation
- Growing emphasis on efficient use of energy resources









- Energy accountability
- Monitor and manage energy usage
- Pay for usage
- Fair & equitable
- Eliminates cross subsidization
- Utilities cost management
- Reduces administrative efforts



- Reliable data for billing
- Flexible tariff structure
- Prevent revenue leakage
- Credit risk diversification
- Change customer behavior
- Improves customer satisfaction
- Operational efficiencies

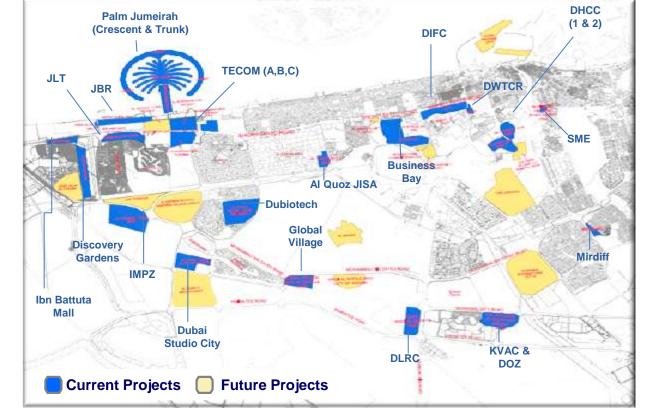






















Key Projects























Dimensions









Key Components



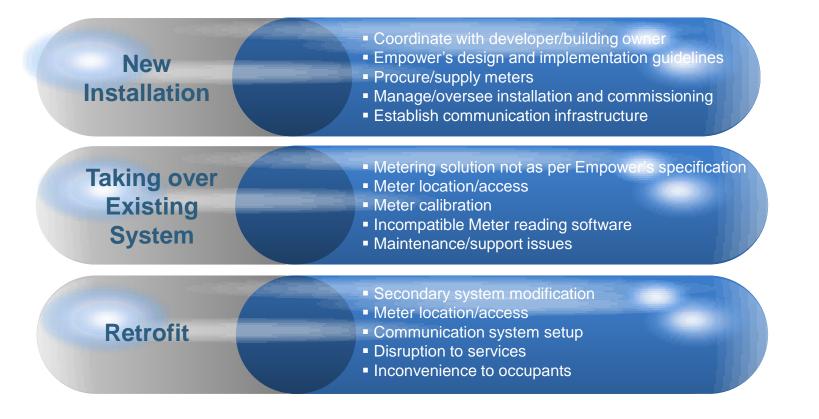






Approach & Issues









Challenges



Device Management

- Multiple vendors
- Multiple models
- Calibration/Re-calibration
- Meter verification
- Meter tampering
- Faulty meter management
- Common area metering

Data Management

- Multiple Communication modes
- Multiple Meter reading softwares
- Meter data storage capability
- Data harmonization, validation and aggregation
- Consumption estimation
- Mix and Match of meters/Interoperability

Customer Management

- Customizable billing options
- Ownership transfers
- Move-in/Move-out (tenant changes)
- Customer Care/Call Centre
- Customer awareness and education
- Complaint/disputes resolution
- Collection follow-ups
- Disconnection/Reconnection



























End-User Metering is the Way Forward!









Emirates Central Cooling Systems Corporation (Empower)

P.O. Box 8081, Block A, Level 8, Al Hudaiba Awards Building 2nd December Street Dubai, United Arab Emirates (UAE)

Tel: +971-4-375 5555 **Fax:** +971-4-375 5550

Web: www.empower.ae

Mr. Ramesh Ramadurai Chief Financial Officer email: ramadurai.ramesh@empower.ae



