



Southern California Edison Case Study Smart Meter System

THERE'S A SMARTER WAY

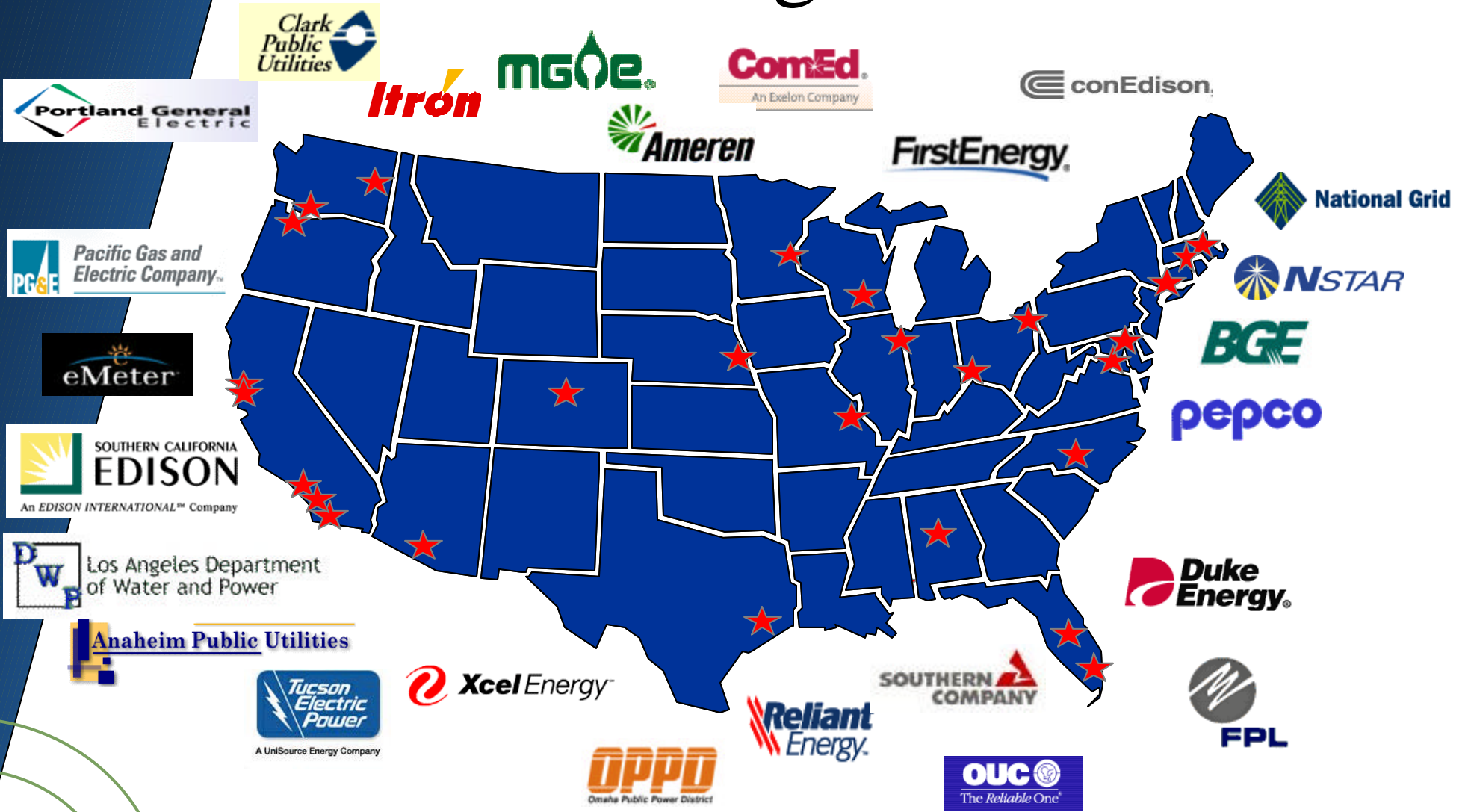
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SmartSynch Overview

- The leading provider of wireless C&I smart metering solutions to the electric energy industry
- Sold over 50,000 C&I SmartMeters since May 2000
- Provide interval data and time-of-use Smart Meters based upon Elster and Schlumberger (now Itron) platforms
- Integrated smart meter approved by Measurement Canada
- C&I smart metering technology for 25 major utilities

THERE'S A SMARTER WAY

Existing Users



★ Utilizing SmartMeter System

Pilots: Toronto Hydro, Powerstream

THERE'S A SMARTER WAY

Southern California Edison

Southern California Edison, based in Los Angeles, is one of the largest electric utilities in the U.S.



SCE Background

- On an average day SCE provides power to:
 - 12 million individuals
 - 430 cities and communities
 - 5,000 large businesses
 - 280,000 small businesses
- To deliver that power, it takes:
 - 16 utility interconnections
 - 4,990 transmission and distribution circuits
 - 425 transmission and distribution crews
 - The days and nights of more than 13,000 employees

Smart Metering Considerations

- Rapid deployment to meet PUC mandate in response to California energy crisis
- Geographically disperse deployment
- Installation & operational costs
- Need for faster information particularly on C&I accounts
- Easy interface to existing systems
- Accelerated receipt of bill payment
- Over the air configurable scheduling flexibility
- Multiple wireless networks & meter platforms

SCE Deployment

- Began deployment in 2001
- Almost 12,000 active meters deployed
 - 15 minute intervals
 - One, two or three channel data
 - Nightly, hourly or real-time reads

SCE Daily Operation

- Customer grouping to support various reporting needs
- Custom export to feed interval data to their data repository
- New data exported every 7 minutes from Smartsynch to SCE systems

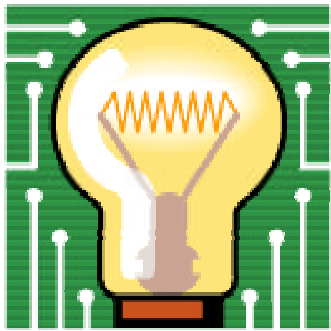
SCE Information Usage

- Billing
- Web presentment to customers
- Monitoring of load curtailment programs for compliance
- Monitoring of generation customers

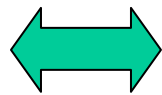
Benefits

- PUC compliance
- Receivables period shortened-bills generated 1 day earlier on average
- 98-99% wireless read accuracy (up from 93%)
- Monitoring of curtailment compliance
- Lower operational cost than phone lines
- Lower installation cost than phone modem meter
- Can provide data to customers as often as every 15 minutes

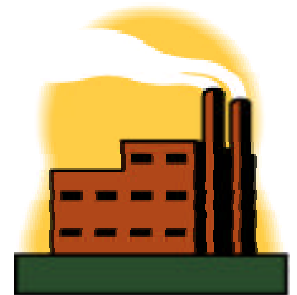
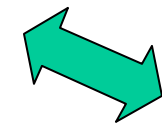
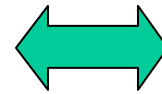
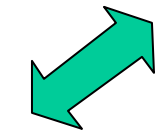
Solution Components



Management Software



Public Wireless Networks



Smart Meters