



Edison SmartConnect[™]

CEC AMI Workshop
May 27, 2008

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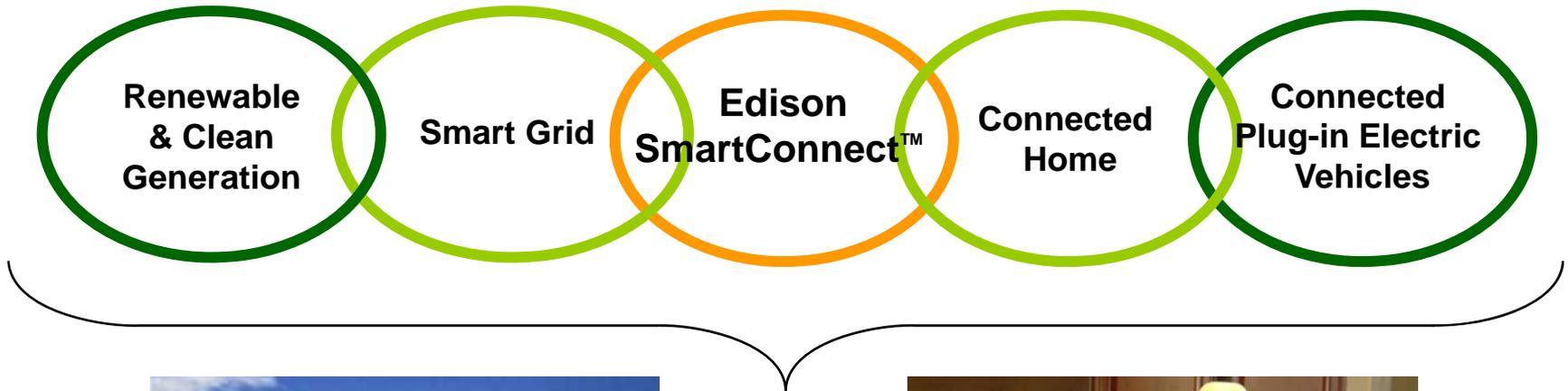
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www.sce.com/smartconnect

EIX Vision for Clean Energy Future

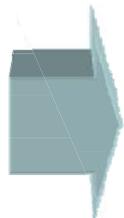
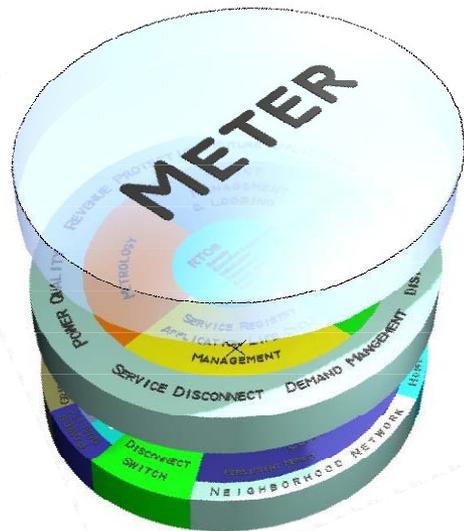
Integration of Information Technology with Energy Technology Delivers Environmental Benefits



Smart Meter Vision to Reality

SCE's Smart Meter Functionality

- 200A service switch w/load limiting capability
- Remote upgradeability (never visit the meter)
- Flexible tariffs & programs (TOU, CPP, etc)
- Improved computing capability
- Integrated HAN interface (ZigBee)
- Integrated 2-way LAN communication
- Power quality metrics
- Robust Security



AMI Technology Overview

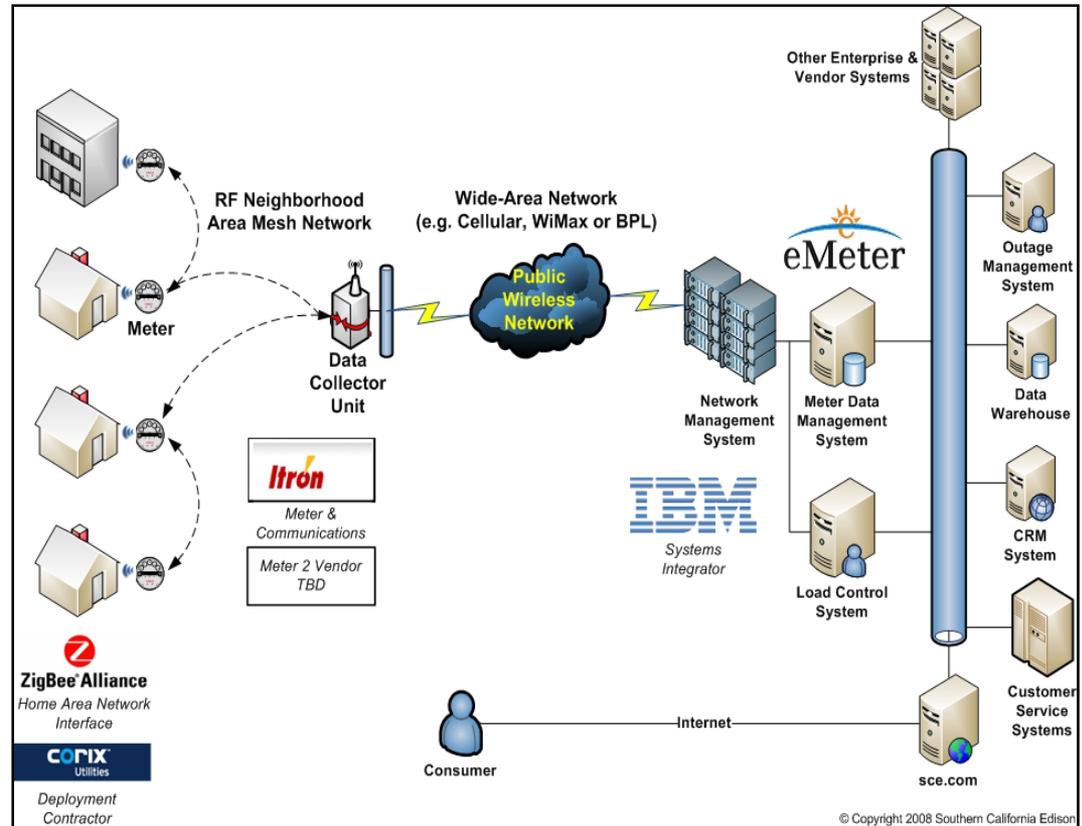
3rd Gen Electronic meters:

- 200A integrated service switch
- Home Area Network interface
- Energy & Voltage measurement
- Outage detection & service status
- Theft/tamper detection
- Remote firmware upgradability
- Robust security

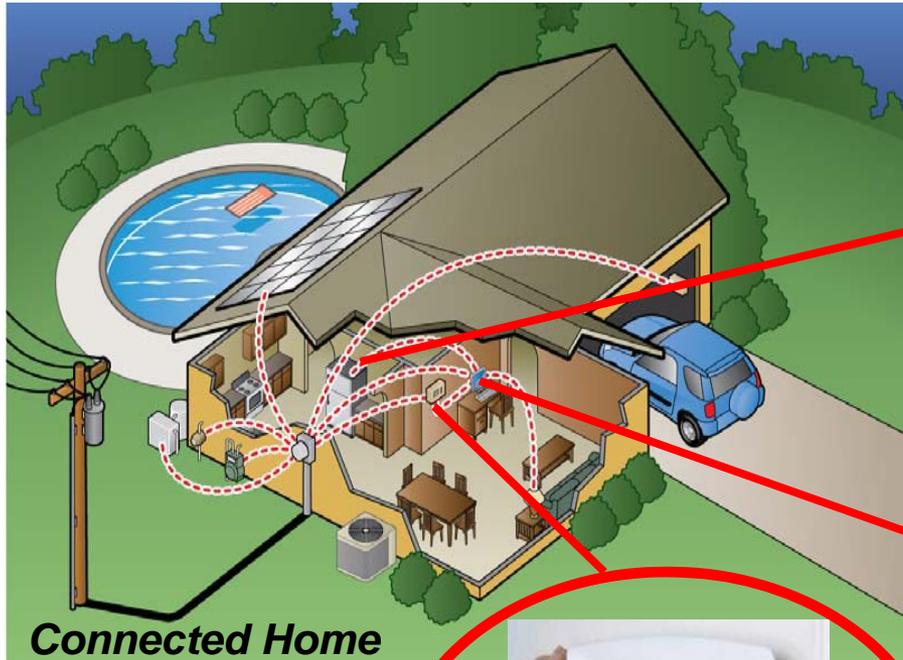
Multi-Tier Telecom Network

- Designed for flexibility & security
- 2-way narrowband 900MHz RF LAN
- Open standard ZigBee 2.4GHz HAN
- Cellular based WAN with flexibility for technology changes

Technology & Vendor Map



Empowering Customer Choice



Customer enabled automated response thru energy smart appliances

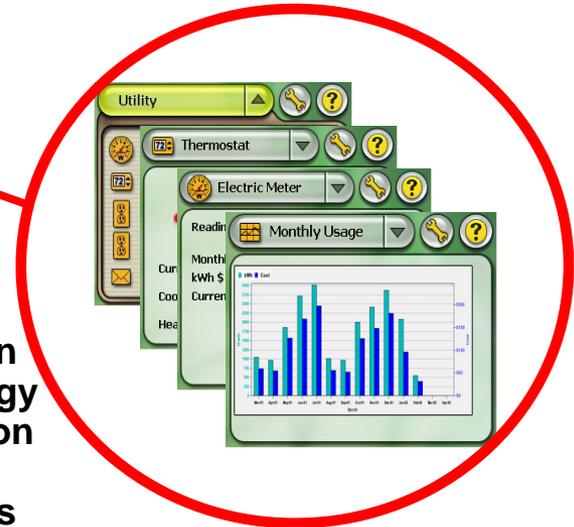


Connected Home

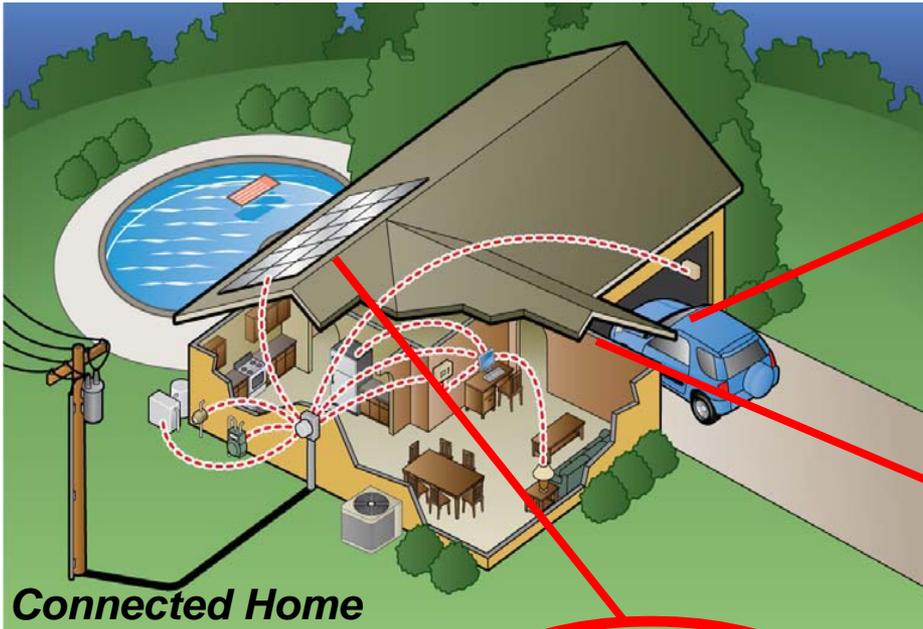
Improved Load Management through smart thermostats



Energy Information drives Energy Conservation and GHG Reductions



Renewables & Energy Storage



**Long-Term Opportunities
through Plug-in Electric
Vehicles**

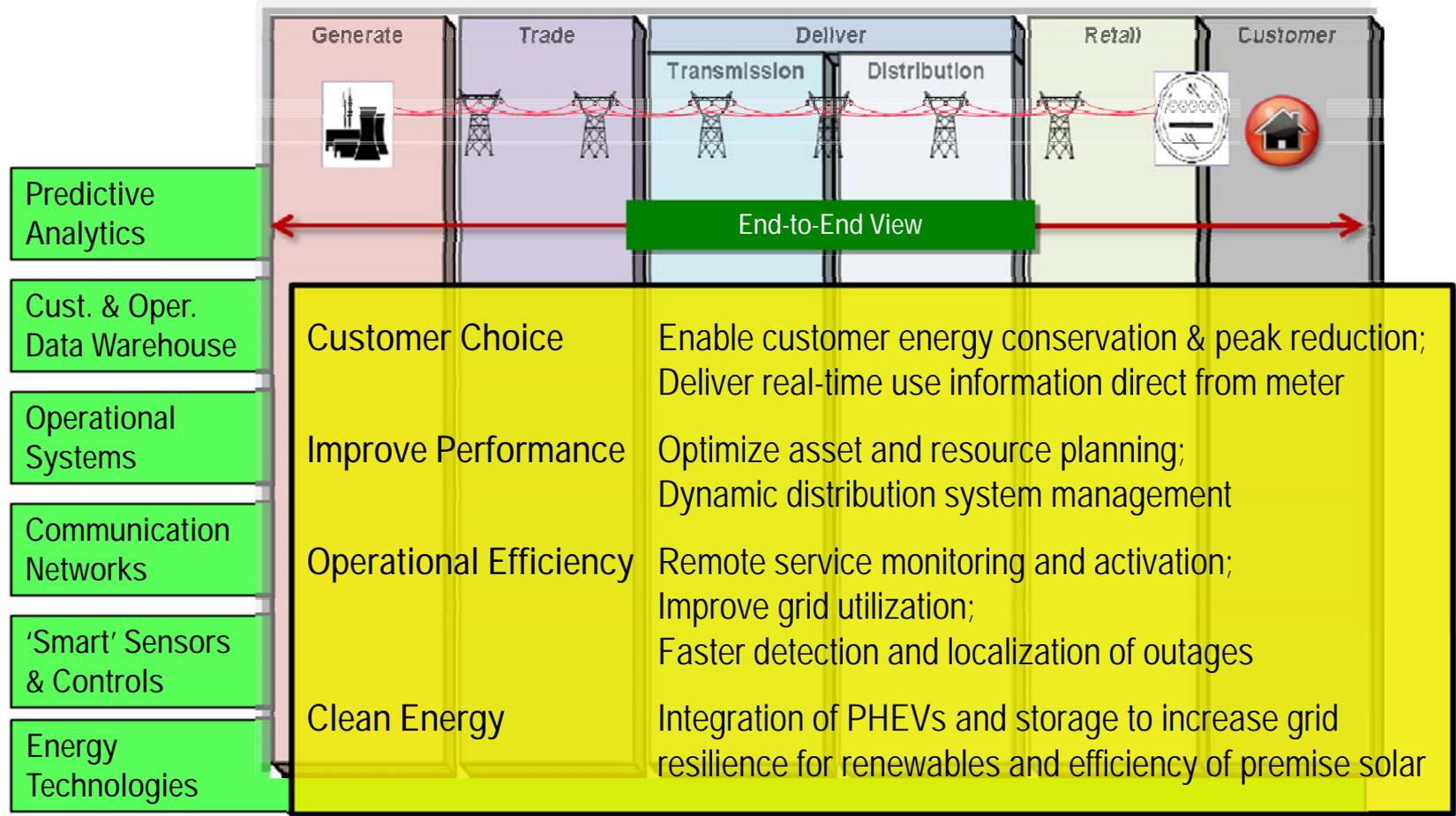


**Customer Home
Energy Storage
Creates
Opportunities for
Increased
Renewables**



**Enable Net Metering,
Discrete metering
and Integrated
energy management
w/Solar Panel**

SmartGrid/SmartConnect Framework

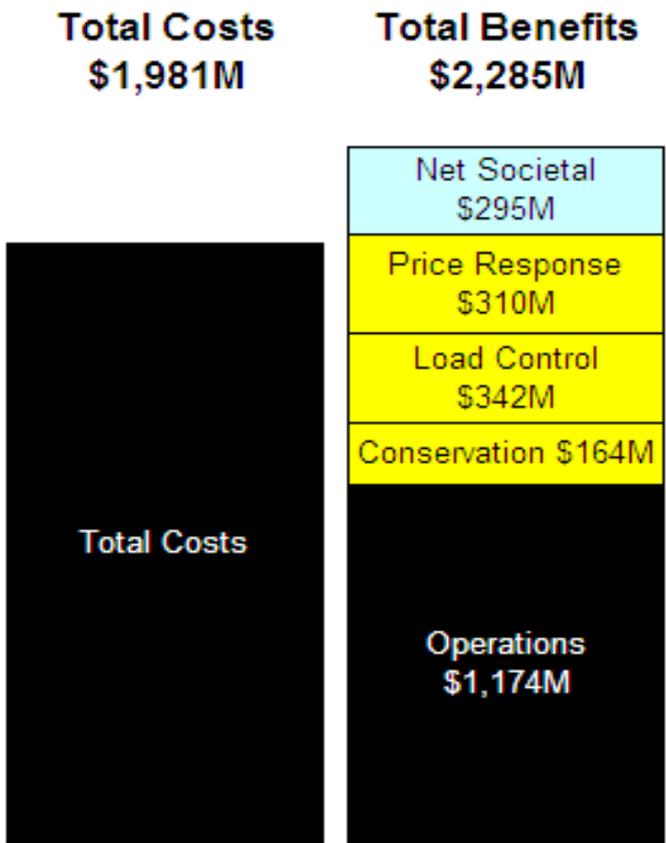


Framework adapted from FP&L

20yr Cost-Benefit Analysis

Based on DRA Settlement*

'07 PVRR (\$Ms)



	(\$ Millions)	
	Nominal	'07 PVRR
Costs		
Phase II Pre-Deployment	\$ (45)	
Acquisition of Meters & Comm Network	(726)	
Installation of Meters & Comm Network	(285)	
Back Office Systems	(251)	
Customer Tariffs, Programs & Services	(117)	
Customer Service Operations	(82)	
Overall Program Management	(45)	
Contingency	(130)	
Post-Deployment	(1,582)	
Total Costs	\$ (3,263)	\$ (1,981)
Benefits		
Meter Services	\$ 3,909	
Billing Operations	187	
Call Center	96	
Transmission & Distribution Operations	92	
Demand Response - Price Response	1,044	
Demand Response - Load Control	1,242	
Conservation Effect	828	
Other	39	
Total Benefits	\$ 7,437	\$ 1,990
Net Benefits Excluding Societal	\$ 4,174	\$ 9
Societal Benefits		295
Net PVRR		\$ 304

*Settlement is pending CPUC approval

Deployment Plan

