



# Business Update September 2016

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# Forward-Looking Statements

Statements contained in this presentation about future performance, including, without limitation, operating results, capital expenditures, rate base growth, dividend policy, financial outlook, and other statements that are not purely historical, are forward-looking statements. These forward-looking statements reflect our current expectations; however, such statements involve risks and uncertainties. Actual results could differ materially from current expectations. These forward-looking statements represent our expectations only as of the date of this presentation, and Edison International assumes no duty to update them to reflect new information, events or circumstances. Important factors that could cause different results include, but are not limited to the:

- ability of SCE to recover its costs in a timely manner from its customers through regulated rates, including regulatory assets related to San Onofre and proposed spending on grid modernization;
- decisions and other actions by the CPUC, the FERC, the NRC and other regulatory authorities, including the determinations of authorized rates of return or return on equity, approval of proposed spending on grid modernization, the outcome of San Onofre CPUC proceedings, and delays in regulatory actions;
- ability of cities, counties and certain other public agencies to generate and/or purchase electricity for their local residents and businesses, along with other possible customer bypass or departure due to technological advancements in the generation, storage, transmission, distribution and use of electricity, and supported by public policy, government regulations and incentives;
- risks inherent in the construction of transmission and distribution infrastructure replacement and expansion projects, including those related to project site identification, public opposition, environmental mitigation, construction, permitting, power curtailment costs (payments due under power contracts in the event there is insufficient transmission to enable acceptance of power delivery), and governmental approvals;
- ability to obtain sufficient insurance, including insurance relating to SCE's nuclear facilities and wildfire-related liability, and to recover the costs of such insurance or in the absence of insurance the ability to recover uninsured losses; and
- risks associated with the retirement and decommissioning of nuclear generating facilities.

Other important factors are discussed under the headings "Risk Factors" and "Management's Discussion and Analysis" in Edison International's Form 10-K, most recent Form 10-Q, and other reports filed with the Securities and Exchange Commission, which are available on our website: [www.edisoninvestor.com](http://www.edisoninvestor.com). These filings also provide additional information on historical and other factual data contained in this presentation.

# Table of Contents

	Page	New (N) or Updated (U) from July 2016 Business Update
EIX Shareholder Value	3	U
SCE Highlights, Regulatory Model	4-5	
Capital Expenditures and Rate Base History and Forecast	6-8	U
2018 GRC Overview	9-10	N
Distribution and Transmission Capital Expenditure Detail	11-15	U,N
CPUC Cost of Capital	16	
2016 Guidance	17	
Growth Drivers Beyond 2017	18	U
SCE System Average Rate	19	
Key Regulatory Proceedings	20	
Operational Excellence	21	
EIX Responding to Industry Change	22	
Edison Energy	23-25	
Annual Dividends Per Share	26	
Appendix		
SCE Tax Memorandum Account	28	U
Historical Capital Expenditures	29	
Capital Expenditure and Rate Base Detailed Forecast	30	N
Power Grid of the Future, Grid Modernization	31-35	U,N
SCE Bundled Revenue Requirement, System Average Rate Historical Growth	36-37	
Residential Rate Reform and Other	38-40	
SCE Customer Rates and Demand	41-42	
California Energy Policy	43-44	
Second Quarter 2016 Earnings Summary, Results of Operations, Non-GAAP Reconciliations	45-50	

# EIX Strategy Should Produce Superior Value

## Sustainable Earnings and Dividend Growth

### Rate Base and Core Earnings Growth

- 8.5% average annual rate base growth through 2020

### Constructive Regulatory Structure

- Decoupling
- Balancing accounts
- Forward-looking ratemaking

### Sustainable Dividend Growth

- Target dividend growth at a higher than industry growth rate within its target payout ratio of 45-55% of SCE earnings in steps over time

## Positioned for Transformative Change

### SCE Focus on Lower-Risk Energy Delivery

- Wires assets represent over 90% of utility plant as of December 31, 2015<sup>1</sup>

### SCE Growth Drivers

- Public safety and reliability
- California's low-carbon environmental policy objective

### Edison Energy Group Competitive Strategy

- Integrate emerging technologies and business models to serve commercial and industrial customers
- Pursue other infrastructure opportunities, e.g. competitive transmission and water resources

1. Includes assets classified as transmission, distribution and general plant

# SCE Highlights

## One of the nation's largest electric utilities

- 15 million residents in service territory
- 5 million customer accounts
- 50,000 square-mile service area

## Significant infrastructure investments

- 1.4 million power poles
- 725,000 transformers
- 103,000 miles of distribution and transmission lines
- 3,100 MW owned generation

## Above average annual rate base growth driven by

- Public safety and reliability
- California's low-carbon policy objectives
  - Distribution Resources Plan (DRP)
  - Electric vehicle charging
  - Energy storage

## Limited Generation Exposure

- SCE owns less than 20% of its power generation needs
- Future generation's needs via competitive market



■ SCE Service Territory

# SCE Decoupled Regulatory Model

Regulatory Model	Key Benefits
Decoupling of Regulated Revenues from Sales	<ul style="list-style-type: none"><li>• SCE earnings are not affected by changes in retail electricity sales</li><li>• Differences between amounts collected and authorized levels are either billed or refunded to customers</li><li>• Promotes energy conservation</li><li>• Stabilizes revenues during economic cycles</li><li>• Trigger mechanism for fuel and purchased power adjustments at 5% variance level</li></ul>
Major Balancing Accounts <ul style="list-style-type: none"><li>• Fuel</li><li>• Purchased power</li><li>• Energy efficiency</li><li>• Pension-related contributions</li></ul>	<ul style="list-style-type: none"><li>• Cost-recovery via balancing accounts represented more than 55% of 2015 costs</li></ul>
Advanced Long-Term Procurement Planning	<ul style="list-style-type: none"><li>• Sets prudent upfront standards allowing greater certainty of cost recovery (subject to reasonableness review)</li></ul>
Forward-looking Ratemaking	<ul style="list-style-type: none"><li>• Three-year rate case cycle</li><li>• Separate multi-year cost of capital proceeding</li></ul>

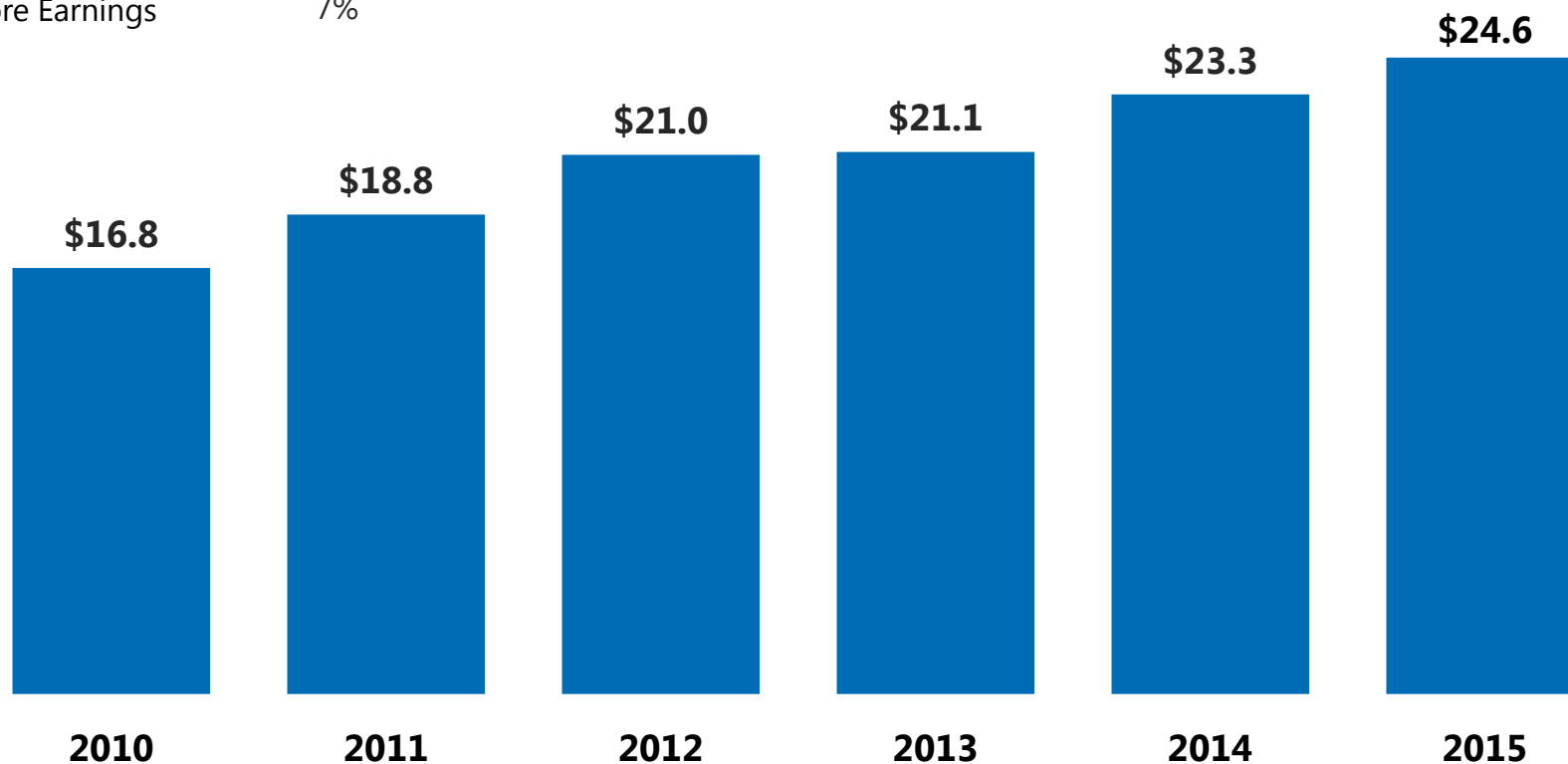
# SCE Historical Rate Base and Core Earnings

(\$ billions)

**2010 – 2015 CAGR**

Rate Base 8%

Core Earnings 7%



<b>Core EPS</b>	2010	2011	2012	2013	2014	2015
	\$3.01	\$3.33	\$4.10	\$3.88	\$4.68	\$4.20

Note: Recorded rate base, year-end basis. See Earnings Non-GAAP Reconciliations and Use of Non-GAAP Financial Measures in Appendix. 2013-2015 rate base excludes SONGS

# SCE Capital Expenditure Forecast

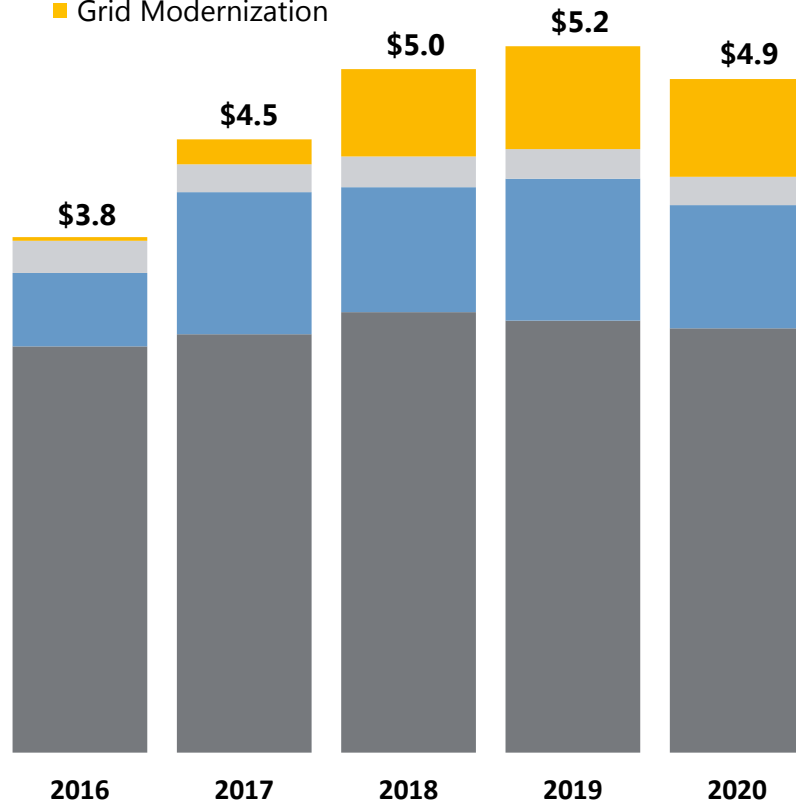
(\$ billions)

## Traditional Capital Spending Categories:

■ Distribution ■ Transmission ■ Generation

## Grid Modernization Capital Spending:

■ Grid Modernization



## \$23.3 Billion Capital Program for 2016-2020 at Request Level

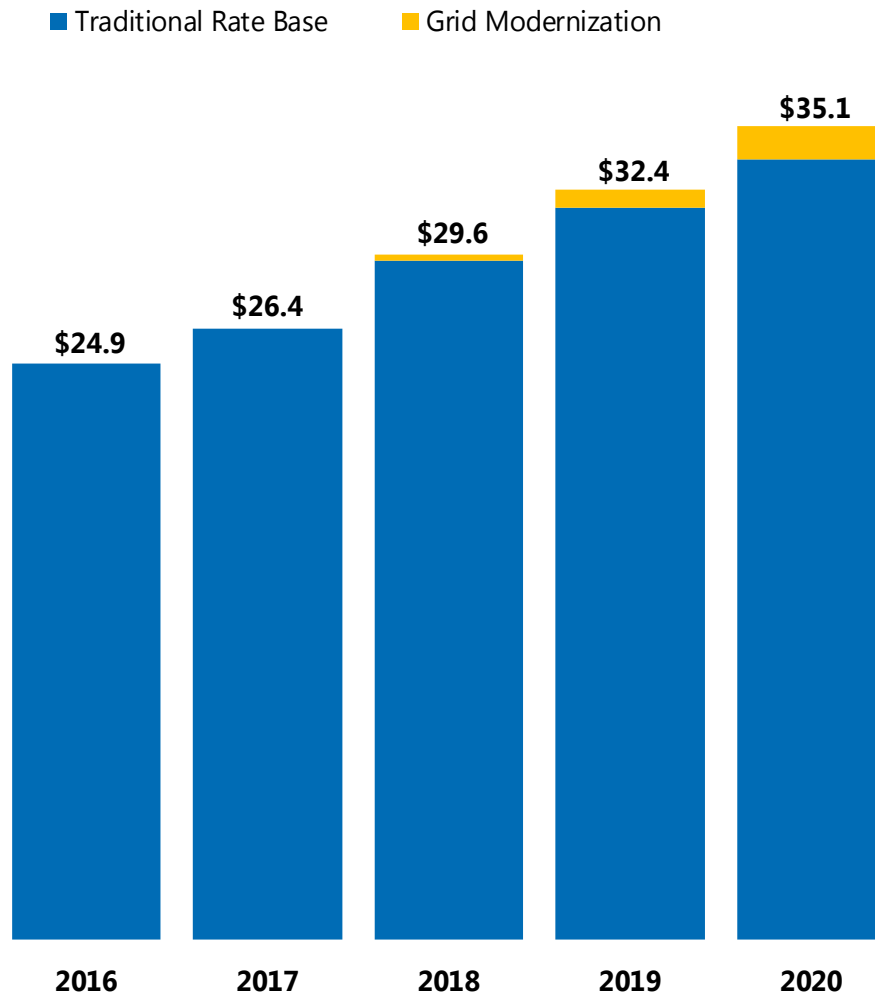
- Capital expenditure forecast incorporates GRC, FERC and non-GRC CPUC spending
  - Grid modernization spending of \$2.3 billion during five-year period
  - 2016-2017 traditional capital spending incorporates 2015 GRC decision and FERC spending consistent with July 29 Business Update
  - Certain non-GRC CPUC capital spending of:
    - \$210 million for grid modernization in 2016-2017
    - \$187 million for Mobile Home Park Conversion pilot program in 2016-2017
- Authorized/Actual may differ from forecast
  - Since the 2009 GRC, CPUC has approved 81%, 89%, and 92% of capital requested, respectively
  - SCE has no prior approval experience on grid modernization capital spending and, therefore, prior results may not be predictive
  - Forecasted FERC capital spending subject to timely receipt of permitting, licensing, and regulatory approvals

Note: Forecasted capital spending includes CPUC, FERC and other spending. See "Capital Expenditure/Rate Base Detailed Forecast" in Appendix.



# SCE Rate Base Forecast

(\$ billions)



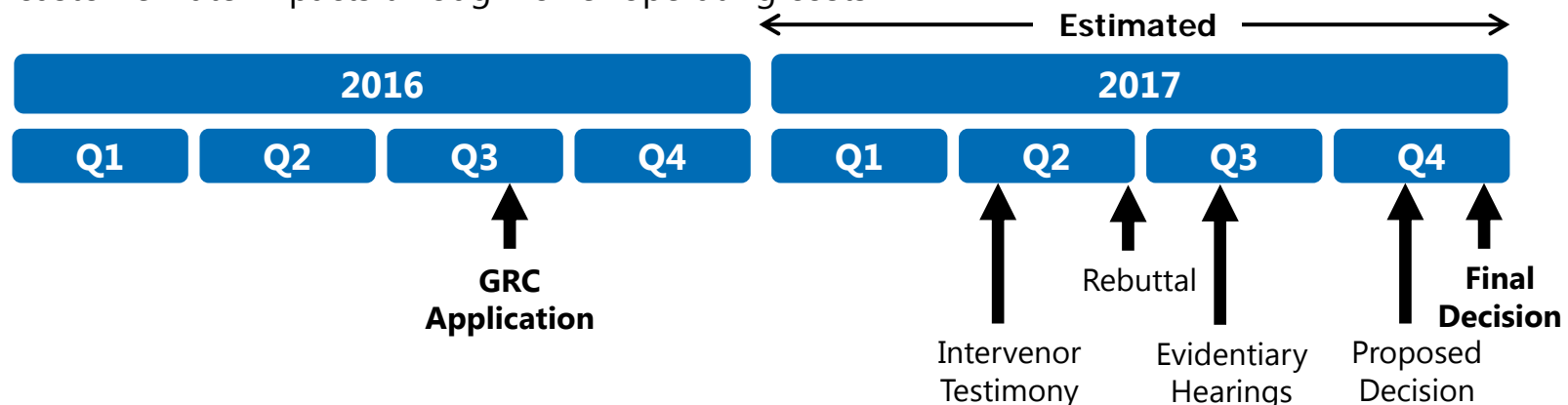
## 5-year CAGR of 8.5% at Request Level

- Incorporates 2015 GRC final decision, except "rate-base offset" excluded because of write off of regulatory asset related to 2012-2014 incremental tax repairs
- CPUC rate base based on request levels from 2018 GRC
- FERC rate base is approximately 19% of SCE's rate base by 2020; includes Construction Work in Progress (CWIP)
- Excludes SONGS regulatory asset

Note: Weighted-average year basis. 2016-2017 based on 2015 GRC decision. 2018-2020 based on 2018 GRC request. Rate base calculated under current tax law.

# 2018 SCE General Rate Case (GRC) Summary

- 2018 GRC Application (A. 16-09-001) filed September 1<sup>st</sup>
- Addresses major portion of CPUC jurisdictional revenue requirement for 2018-2020
  - Includes operating costs and capital investment
  - Excludes CPUC jurisdictional costs such as fuel and purchased power, cost of capital and other discrete SCE capital projects (such as SCE Charge Ready – transportation electrification infrastructure program)
  - Excludes FERC jurisdictional transmission
- Requests 2018 revenue requirement of \$5.885 billion
  - \$222 million increase over presently authorized base rates, a 2.7% increase over total rates
  - Requests post test year increases: \$533 million in 2019 and \$570 million in 2020, 4.2% and 5.2% increases over presently authorized total rates, respectively
- GRC filing consistent with SCE strategy to focus on safety and reliability by continuing infrastructure investment and beginning grid modernization investments while mitigating customer rate impacts through lower operating costs



Note: Actual schedule to be set by CPUC in a future regulatory order. The schedule is subject to change over the course of the proceeding.

# 2018 SCE GRC Summary (cont.)

## Items Carried Over from 2015 GRC

- Requests continuation of Tax Accounting Memorandum Account (TAMA) to adjust revenues annually for over and undercollection of specified tax items
- Forecasting over \$85 million in 2018 O&M savings from Operational Excellence initiatives
- Requests recovery for short-term incentive compensation plans for full-time employees (\$41 million disallowance in 2015 GRC decision)
- Requests continuation of pole loading capital recovery through balancing account

## New Items from 2018 GRC

- Capital expenditures include \$2.1 billion of proposed grid modernization capital to support improved safety and reliability and increased levels of distributed energy resources (DER)
  - Requested approval to establish a memorandum account to facilitate \$210 million of grid modernization capital expenditures in 2016-2017; these expenditures support 2018 GRC grid modernization capital request
  - May need to evaluate grid modernization capital plan if memorandum account is not approved
- Need to increase depreciation expense to reflect updated cost of removal estimates<sup>1</sup>
  - Limiting cost of removal request to mitigate customer rate impact beginning with \$84 million increase in 2018
  - Further increases will likely be required over multiple GRC cycles

1. Cost of removal is the cost to remove existing equipment that is being replaced

# SCE Distribution System Investments

## Distribution Trends

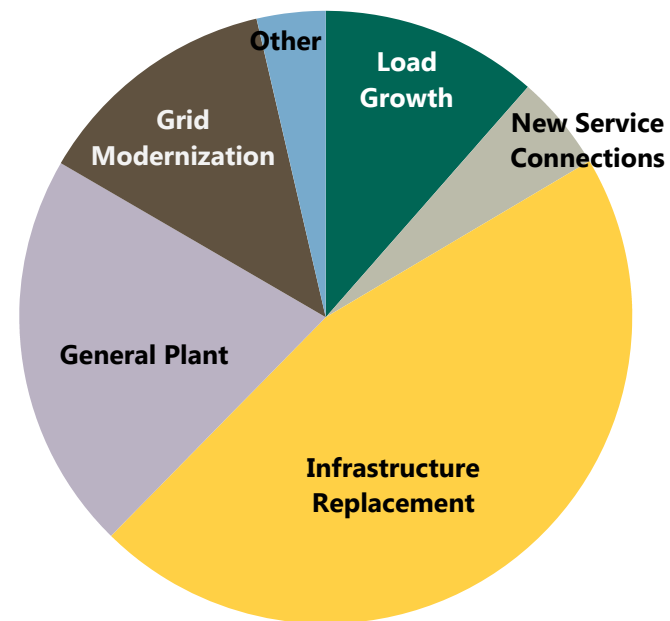
- Continued focus on safety and reliability with infrastructure replacement representing 46% of total distribution capital spend, but not yet reaching equilibrium replacement rate
  - Includes pole loading replacement program and overhead conductor replacements
- Distribution grid requires upgrades to circuit capacity, automation, and control systems to support reliability as use of distributed energy resources increases
- Includes grid modernization capital which is expected to become a larger portion of spend beyond 2017

## 2018-2020 Capital Spending Drivers

- Automation of over 850 distribution circuits
- Over 2,000 miles of cable replacements
- 4kV cutovers/removals
- Distribution preventive maintenance
- Overhead conductor replacements
- Circuit breaker replacements/upgrades

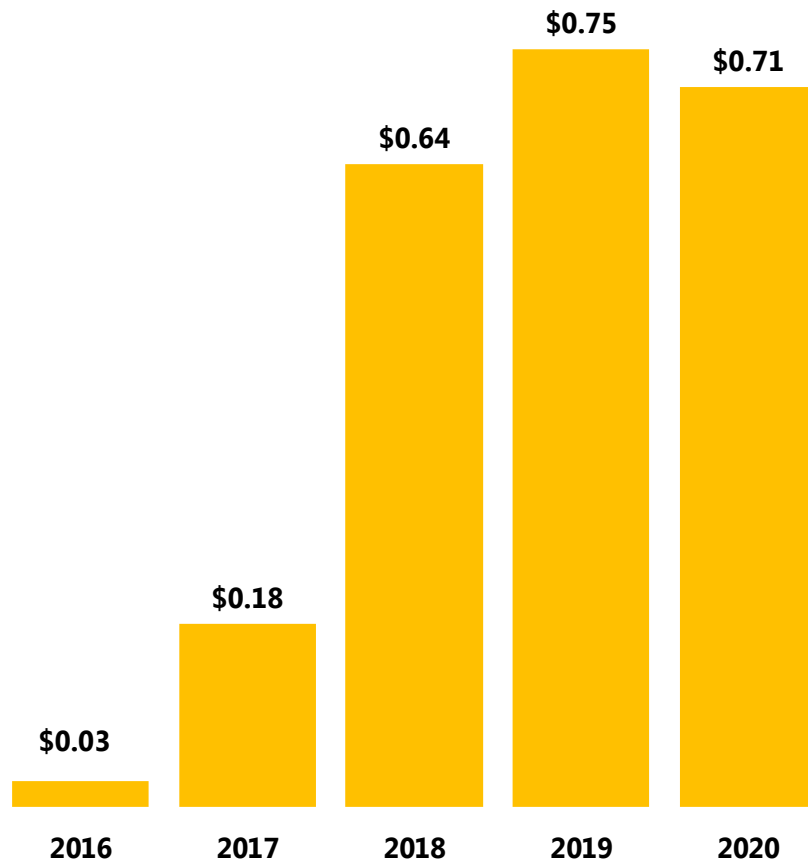
1. Other includes: Energy Storage, Charge Ready Pilot and Mobile Home Park Conversion

**2016 – 2020 CPUC  
Expenditures for Distribution Assets<sup>1</sup>  
\$17.8 Billion**



# SCE Grid Modernization Forecast

(\$ billions)



## \$2.3 Billion Capital Request for 2016-2020<sup>1,2</sup>

**Building next generation electric grid will require accelerating traditional Transmission and Distribution / Information Technology programs and investing in new capabilities**

- Increased capacity: Upgrade portions of the grid (such as 4kV system) to increase capacity, improve reliability, and address technology obsolescence
- Advanced Capabilities: Automation to monitor and control grid equipment in real-time
- Communication Networks: Expansion of fiber optic network and field area network for real-time data transfer
- Technology Platforms: Foundational tools for forecasting and planning; management systems to operate the distribution grid

## Capital will be deployed to achieve two primary objectives

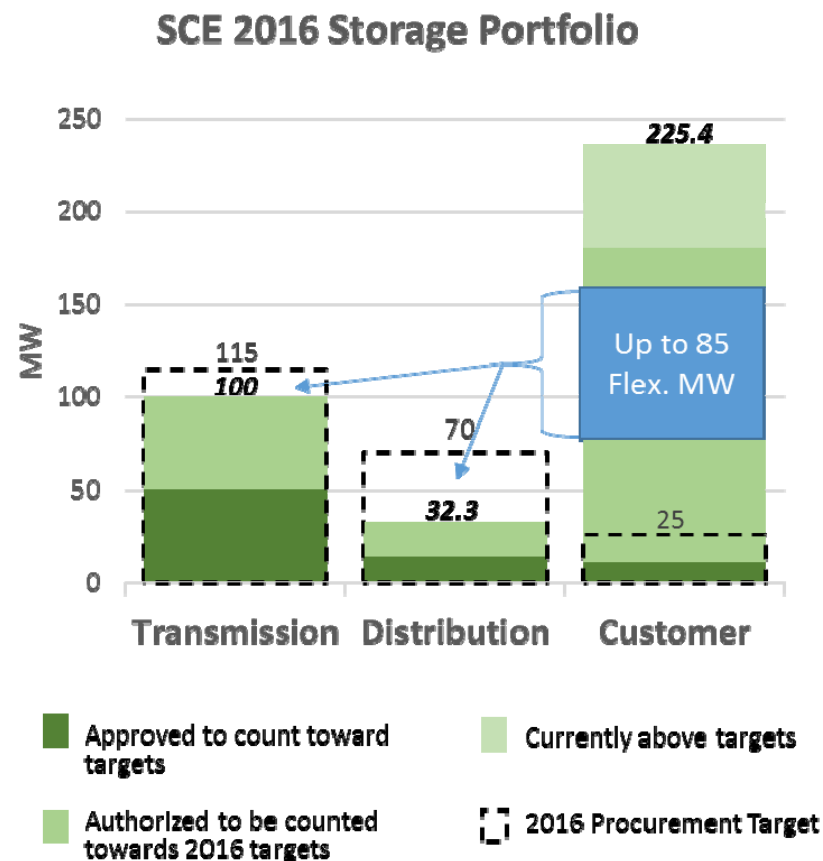
- Improving safety and reliability
  - Focus on worst performing circuits in conjunction with traditional infrastructure replacement activities
- Increase DER integration capacity and enable advanced operations on circuits with high forecasted penetration or where DERs can provide grid services

1. Forecast excludes capitalized overheads

2. Pending approval of memorandum account for 2016 and 2017 forecast and 2018 GRC decision for 2018-2020 forecast

# Energy Storage

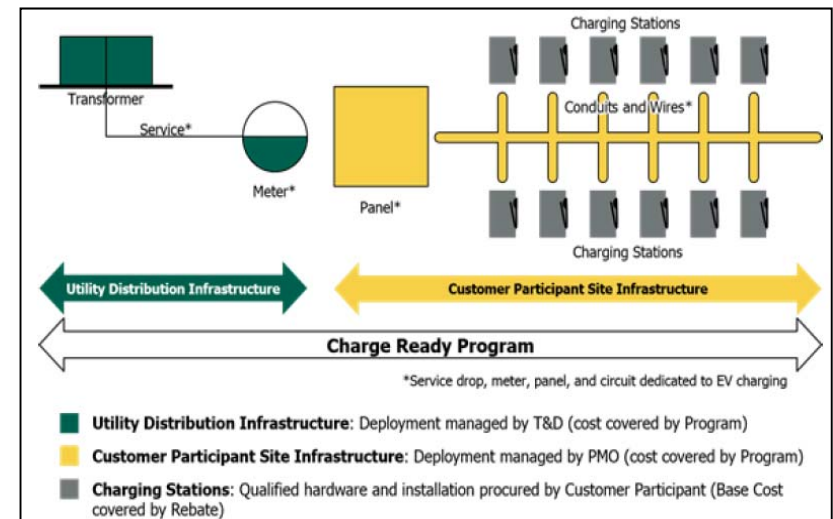
- CPUC Energy Storage Program:
  - Storage Rulemaking (R.10-12-007) established 1,325 MW target for IOUs by 2024 (580 MW SCE share; spread as biennial targets during 2014-20)
  - Ownership allowed up to 50% of total target (290 MW SCE share)
  - Flexibility to transfer across categories, recently expanded in Storage Rulemaking (R.15-03-011)
- First storage-only RFO completed November 2015
  - Three contracts for 16.3 MW were submitted for CPUC approval in December 2015
- SCE filed its 2016 Storage Procurement Plan on March 1, 2016 detailing current portfolio and plans for second Storage RFO in late 2016
- SCE's storage portfolio also includes SCE-owned pilots and demonstrations, customer programs, and storage procured through various solicitations
- In response to CPUC Resolution E-4791, SCE recently issued the Aliso Canyon Energy Storage RFO for 3<sup>rd</sup> party-owned storage and a Request for Proposals (RFP) for sellers to design, build, and transfer energy storage facilities to SCE



**SCE has already met the aggregate 2016 targets**

# SCE Charge Ready Program

- Electric vehicle Charge Ready Program Phase 1 pilot approved by CPUC January 2016
  - Authorizes spend of \$22 million on pilot implementation for charger installations and Market Education Programs (\$12 million rate base)
  - Advice letter approval to spend funds granted April 2016
- Pro-active, two-phased program to support installation of up to 30,000 EV charging stations to be included in rate base
  - Phase 1: pilot for 1,500 chargers and market education program (2016 – 2017)
  - Phase 2: 28,500 chargers (2018 – 2022)
- Addresses approximately 1/3 of forecast non-single family home charging demand in SCE territory in 2020
- Request for Phase 2 to be filed with CPUC after completion of Phase 1
  - \$225 million total rate base opportunity if Phase 2 follows Phase 1 approach



- Level 1 (120V) and Level 2 (240V) chargers (L2 with Demand Response capability)
- 10 chargers per site minimum
- Participants own / operate / maintain chargers
- Capital cost per charging station: \$11,200

**SCE's Charge Ready Program supports Governor Brown's 2012 zero-emission vehicle Executive Order – 1.5 million EVs statewide by 2025**

# SCE Large Transmission Projects

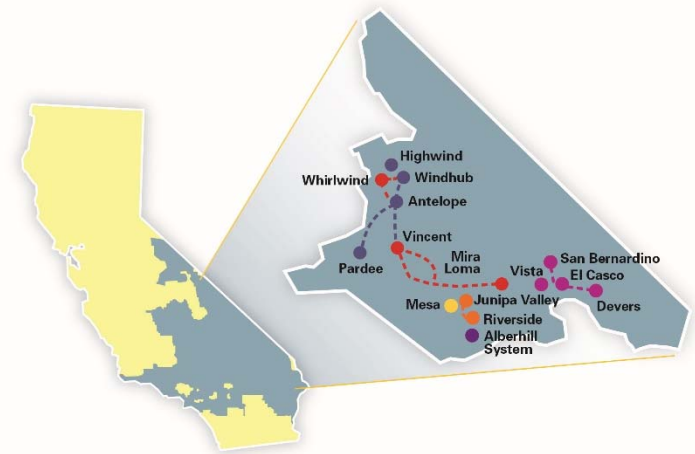
## Summary of Large Transmission Projects

Project Name	Total Cost	Remaining Investment	In-Service Date
Tehachapi 4-11	\$2.5 billion	\$180 million	2016-2017
West of Devers <sup>1,3</sup>	\$1.1 billion	\$1.0 billion	2021
Mesa Substation <sup>2</sup>	\$600 million	\$600 million	2020-2021
Alberhill System <sup>2</sup>	\$400 million	\$360 million	2021
Riverside Transmission Reliability <sup>2</sup>	\$230 million	\$230 million	2021

## FERC Cost of Capital

### Comparable to CPUC 10.45% ROE which includes:

- Base ROE = 9.30% + CAISO participation + weighted average of individual project incentives
- FERC Formula recovery mechanism in effect through December 31, 2017

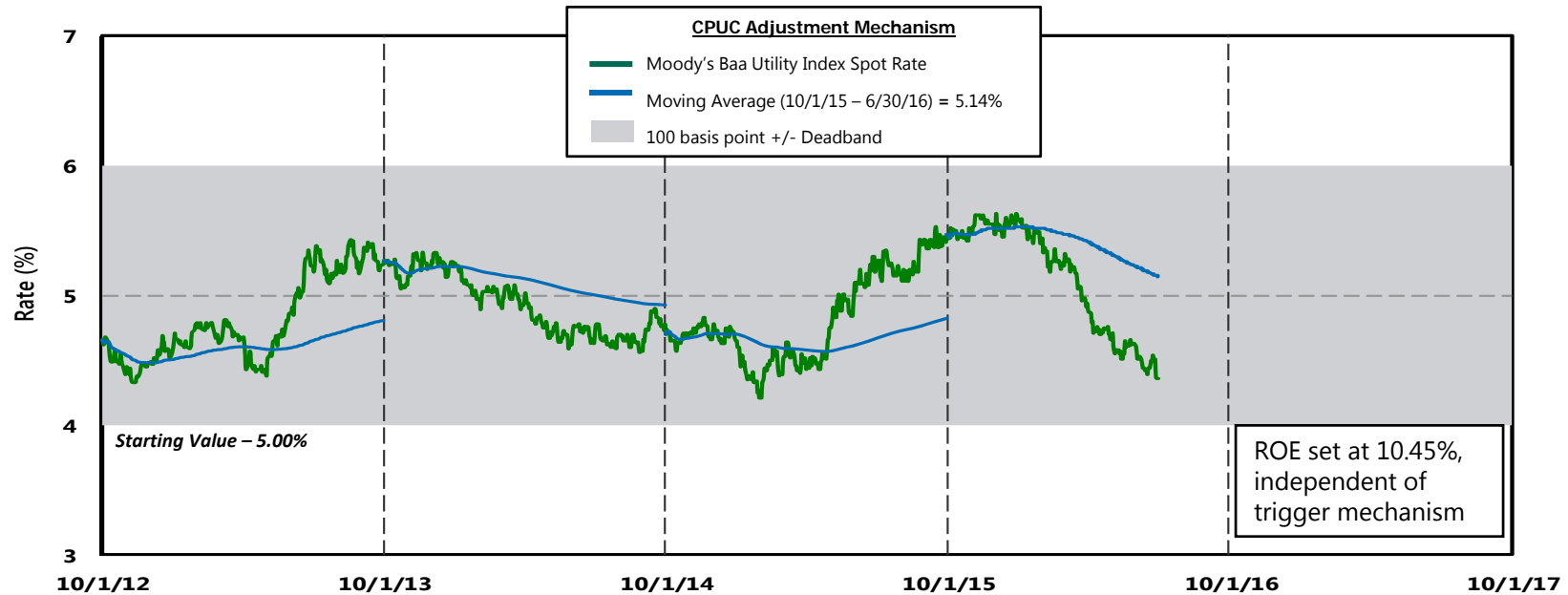


Note: Total Project Costs are nominal direct expenditures, subject to CPUC and FERC cost recovery approval.

1. CPCN approved August 2016
2. Presently under CPUC environmental review
3. Morongo Transmission holds an option to invest up to \$400 million, or half of the estimated cost of the transmission facilities only, at the in-service date. If the option is exercised, SCE's rate base would be offset by that amount



# CPUC Cost of Capital



## Return on Equity (ROE) adjustment mechanism extended through 2017

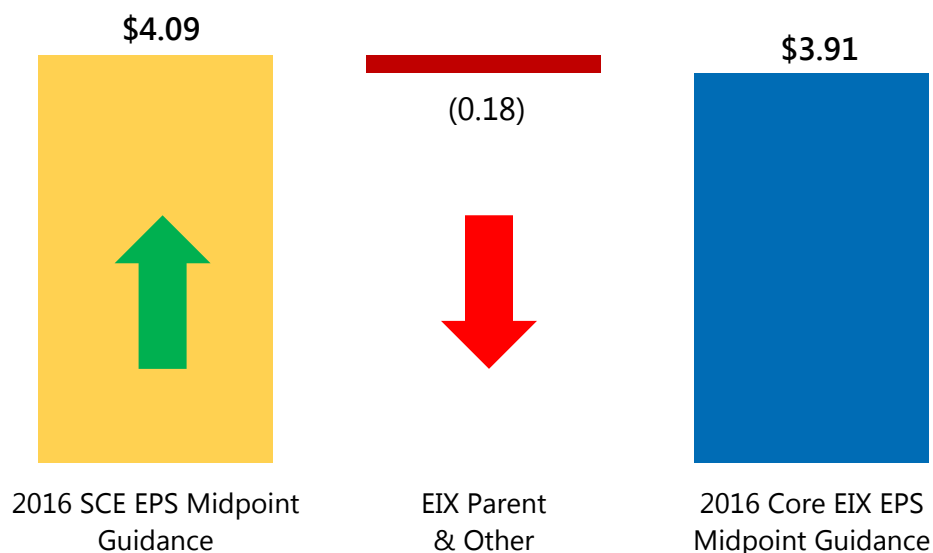
- ROE adjustment based on 12-month average of Moody's Baa utility bond rates, measured from October 1 to September 30
- If index exceeds 100 bps deadband from starting index value, authorized ROE changes by half the difference
- Starting index value based on trailing 12 months of Moody's Baa index as of September 30, 2012 – 5.00%
- CPUC extended Cost of Capital filing from April 2016 to April 2017
- CPUC approved the Joint Petition for Modification to suspend adjustment mechanism through 2017 in February 2016

	CPUC Authorized	
	Capital Structure	Cost
Common Equity	48%	10.45%
Preferred	9%	5.79%
Long-term Debt	43%	5.49%
<b>Weighted Average Cost of Capital</b>		<b>7.90%</b>

# 2016 Earnings Guidance Reaffirmed

## 2016 Earnings Guidance

	As of May 2, 2016			As of July 28, 2016		
	<u>Low</u>	<u>Mid</u>	<u>High</u>	<u>Low</u>	<u>Mid</u>	<u>High</u>
<b>EIX Basic EPS</b>	<b>\$3.82</b>	<b>\$3.92</b>	<b>\$4.02</b>	<b>\$3.82</b>	<b>\$3.92</b>	<b>\$4.02</b>
Less: Non-Core Items <sup>1</sup>	0.01	0.01	0.01	0.01	0.01	0.01
<b>EIX Core EPS<sup>2</sup></b>	<b>\$3.81</b>	<b>\$3.91</b>	<b>\$4.01</b>	<b>\$3.81</b>	<b>\$3.91</b>	<b>\$4.01</b>



## Key Assumptions

- Revenues based on GRC final decision
- Energy efficiency earnings of \$0.05 per share
- Authorized CPUC capital structure – 48% equity; 10.45% ROE
- FERC ROE comparable to CPUC ROE
- No change in tax policy
- 325.8 million common shares outstanding
- MHI arbitration decision not included

**2016 earnings guidance reaffirmed, though SCE will likely outperform and EIX Parent & Other will likely underperform current guidance**

1. Non-core items recorded for the six months ended June 30, 2016  
 2. See Earnings Non-GAAP Reconciliations and Use of Non-GAAP Financial Measures in Appendix

# SCE Growth Drivers Beyond 2017

## Infrastructure Reliability Investment

- Sustained level of infrastructure investment required until equilibrium replacement rates are achieved and then maintained - includes underground cable, poles, switches, and transformers<sup>1</sup>

## Grid Modernization

- Accelerate automation, communication, and analytics capabilities at optimal locations to integrate distributed energy resources into planning and operations
- DRP required under AB 327 to identify optimal locations, additional spending, and barriers to deploying distributed energy resources – filed July 1, 2015
- On July 13, 2016, requested Grid Modernization memorandum account for proposed early stage capital expenditures

## Transmission

- California ISO 2013-2014 Transmission Plan<sup>2</sup> - approved Mesa Substation Project (system reliability post-SONGS and renewables integration) with target in-service date of 2020
- West of Devers (2019-2021) incorporated from prior Transmission Plans with target in service date of 2021
- Future transmission needs to meet 50% renewables mandate in 2030 – CAISO planning process underway

## Energy Storage

- 290 MW SCE owned investment opportunity through 2024

## SCE Charge Ready Program

- If approved by CPUC, planned Phase 2 will deploy approximately 1/3 of charging infrastructure needed by 2020 to serve EVs at long-dwell time locations (other than single family residences)

## Transportation Electrification

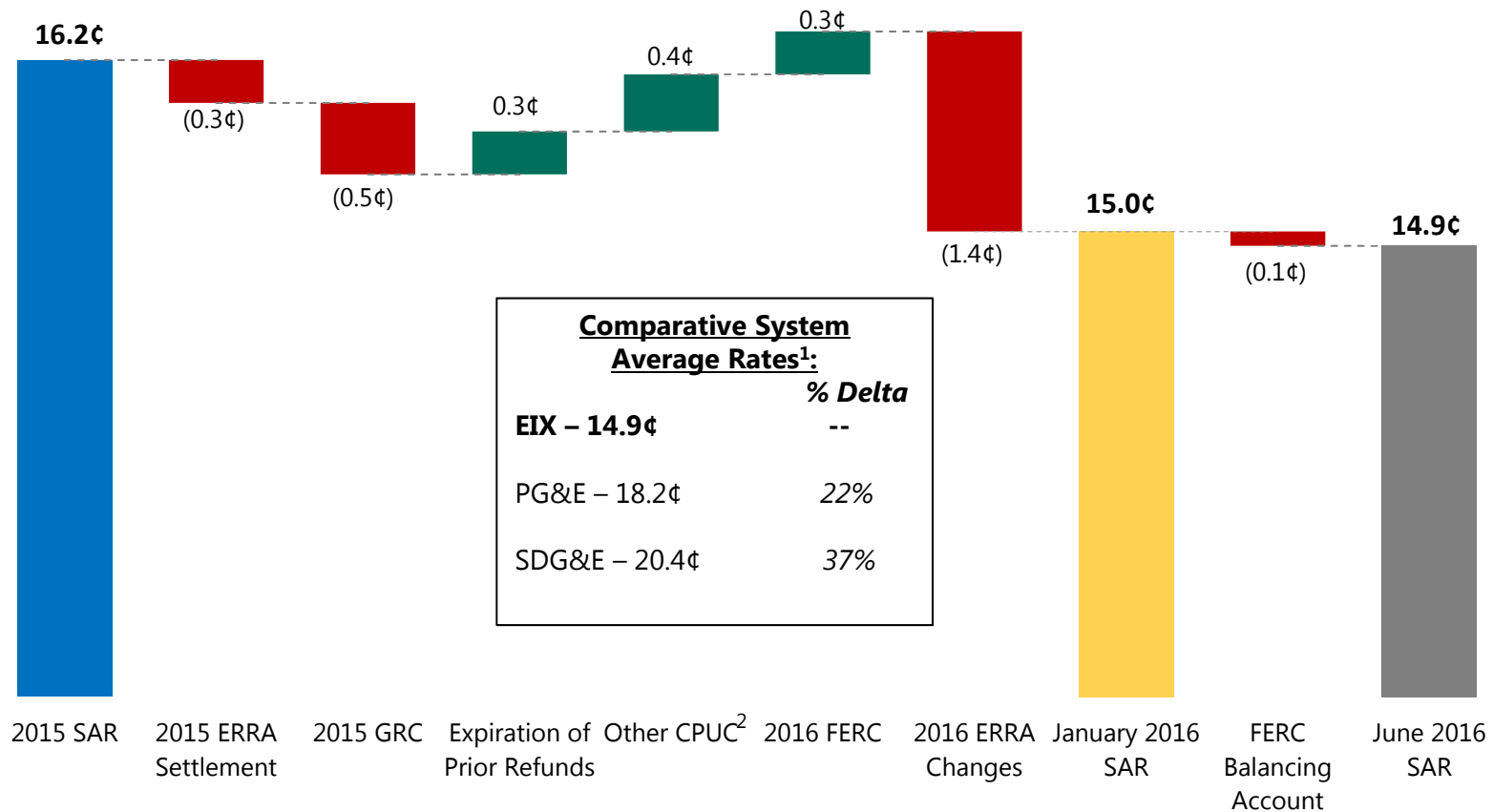
- Personal, mass transit, goods movement – CPUC Scoping Memo issued March 30, 2016

1. Source: A.13-11-0032015 GRC – SCE-01 Policy testimony; equilibrium replacement rate defined as equipment population divided by mean time to failure for type of equipment

2. Approved by the California ISO Board of Governors March 20, 2014

# 2016 System Average Rate

(¢/kWh)



**SCE's system average rate is lowest among the California IOUs**

Note: Forecasted rates post 2016 are not provided because it is difficult to provide an accurate forecast of future rates.

1. Rates as of September 1, 2016

2. Includes public purpose, 2016 SONGS revenue requirement and other

# SCE Key Regulatory Proceedings

Proceeding	Description	Next Steps
<b>Key SCE Proceedings</b>		
Cost of Capital	CPUC capital structure, cost of capital, and return on equity	CPUC approved the Joint Petition for Modification to suspend adjustment mechanism through 2017; Filing of 2018 application in April 2017
Distribution Resources Plan OIR (R.14-08-013)	Power grid investments to integrate distributed energy resources	SCE plan submitted July 2015; CPUC scoping memo issued January 2016; three phases
Integrated Distributed Energy Resources OIR (R. 14-10-003)	Creating consistent framework for guidance, planning and evaluation of DERs	Florio Ruling comments and replies filed in May 2016; ongoing workshops and recommendations on proceeding
SONGS OII (I.12-10-013)	OII resolved (December 2015); Proceeding reopened in May 2016	CPUC decisions on pending challenges to the SONGS Settlement Agreement
<b>Key FERC Proceedings</b>		
FERC Formula Rates	Transmission rate setting with annual updates	ROE moratorium expired July 2015; settlement in place through December 2017
<b>Other Proceedings</b>		
Energy Storage RFO (A.15-12-003)	Solicitation for 16.3 MW launched December 2014	Selection September 2015; Contracts submitted for CPUC approval on December 2015
Charge Ready Program (A.14-10-014)	Implementation program for charger installations and market education	Phase 1 pilot program approved January 2016; request for Phase 2 to be submitted after Phase 1 completion
Alternative-Fueled Vehicle OIR (R. 13-11-007)	Scope originally focused on 1.5 million EV target; scope broadened March 2016 to address broader SB 350 transportation electrification objectives	Q2 2016 workshops to be followed by Q3 2016 CPUC invitation for transportation electrification applications

# SCE Operational Excellence

## Defining Excellence

### Top Quartile

- Safety
- Cost efficiency
- Reliability
- Customer service

### Optimize

- Capital productivity
- Purchased power cost

High performing, continuous improvement culture

## Measuring Excellence

- Employee and public safety metrics
- System reliability (SAIDI, SAIFI, MAIFI)
- J.D. Power customer satisfaction
- O&M cost per customer
- Reduce system rate growth with O&M / purchased power cost reductions

**Ongoing  
Operational  
Excellence  
Efforts**

# EIX is Responding to Industry Change

## Long-Term Industry Trends

- Public policy and large commercial customers prioritizing sustainability objectives
- Innovation facilitating conservation and self-generation
- Regulation supporting new forms of competition
- Flattening domestic demand for electricity
- Power grid of the future will be more complex and sophisticated to support increasing use of distributed resources and transportation electrification

## Strategy

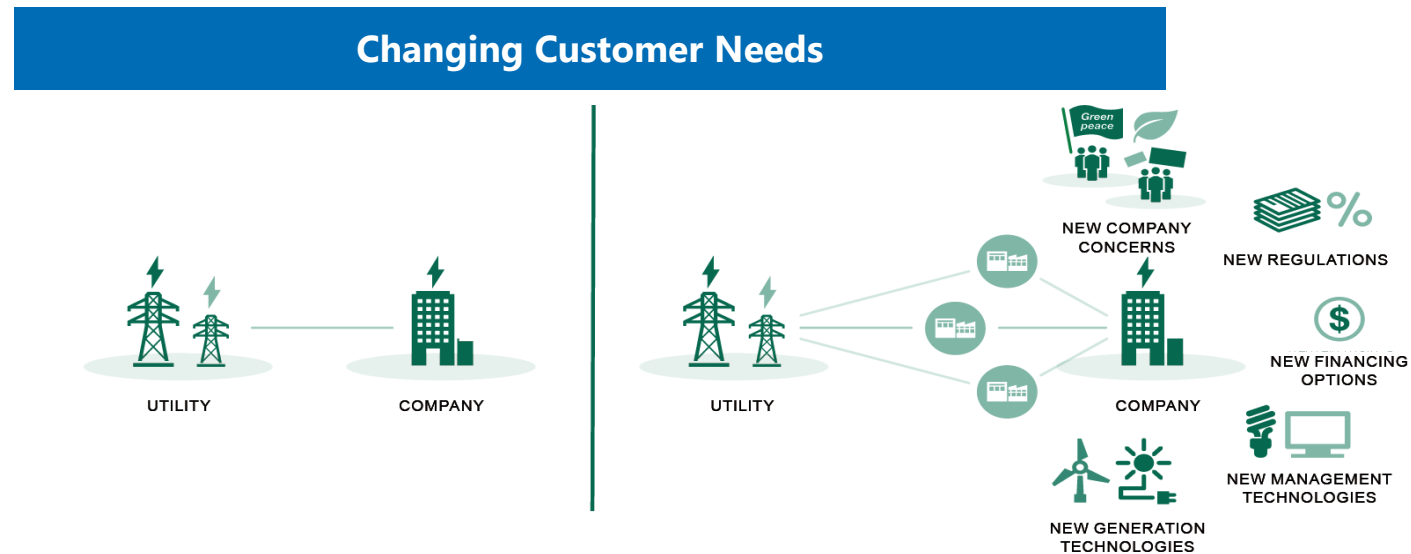
### SCE Strategy

- Invest in, build, and operate the next generation electric power grid
- Operational and service excellence
- Enable California public policies

### EIX Competitive Strategy

- Edison Energy – Position as Integrator for Energy-as-a-Service platform serving large commercial and industrial customers
- Edison Transmission – Competitive opportunities outside SCE service territory and founding member of Grid Assurance™
- Edison Water Resources – Desalination of brackish water and on-site wastewater recycling initial areas of focus

# Edison Energy Focus: Commercial & Industrial



## The Opportunity: Trusted Advisor and Solution Integrator

- Create energy services that help simplify and optimize energy needs for large commercial & industrial customers:
  - Help customers better assess and capture the value of energy optimization, paving the way for greater third-party energy services
  - Help customers manage through technological / regulatory changes

**Evolving customer needs and uncertainty around changing technologies, regulation and business models create a business opportunity for a trusted advisor role**



# Edison Energy: Acquired Businesses Summary



- Hundreds of solar solutions designed and installed across 16 states, SoCore offers multisite retailers, REITs and industrial companies portfolio-wide solar solutions that provide energy cost savings and carbon reduction opportunities



- Provides comprehensive renewable energy advisory and procurement services to leading Fortune 1000 companies, universities and municipalities
- Created a proprietary market access platform where it typically procures energy for its clients by negotiating multiyear power purchase agreements that help control energy costs and improve the environmental performance of their operations



- A full-service energy consulting, engineering and project development firm specializing in the analysis, design, development and installation of energy efficiency projects, green initiatives for building systems, and power generation solutions for optimization and environmental control
- Focused on building HVAC and controls, new energy technologies, renewable energy, power plant environmental systems, and energy awareness and education



- A leading provider of custom energy consulting services for large, multiple site, commercial and industrial energy users with a focus on enabling them to achieve significant energy cost savings and control
- Collaborates with clients to help them make strategic decisions to achieve their overall business objectives, offering consulting services in energy procurement, supply and energy asset management, utility bill payment and invoice auditing, energy data management, energy price risk management, regulatory support, renewable energy integration and energy efficiency/demand response

# Grid Assurance™ Overview



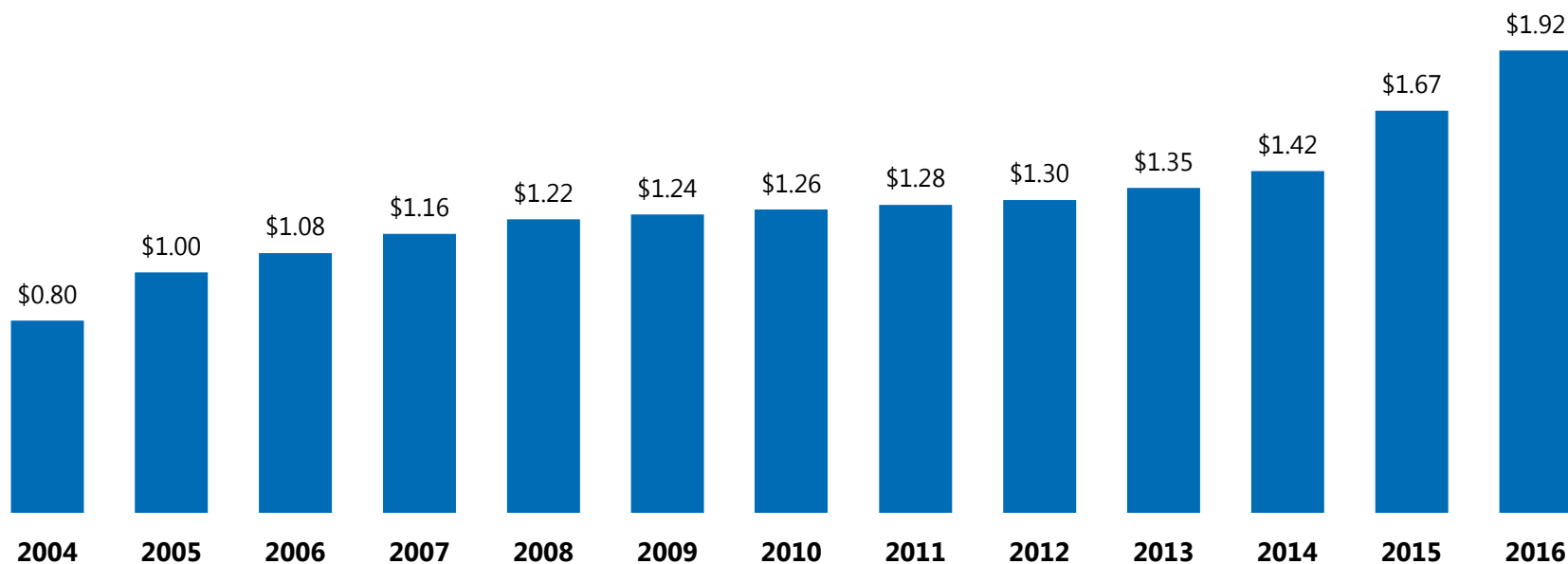
On May 9, 2016, six electric power companies announced the official launch of Grid Assurance, LLC, an independent company providing transmission sparing solutions for critical electric transmission equipment. The company is offering its subscribers a cost-effective way to enhance grid resiliency and protect their customers from prolonged transmission outages.

- Grid Assurance will address potential high impact events on the bulk transmission systems:
  - It will own critical equipment with long manufacturing lead times to account for risk beyond what is covered by "operational spares"
  - It will provide secure, off-site storage in strategic locations, and support transportation of needed equipment to its subscribers
  - Subscribers will pay a subscription fee based on Grid Assurance's costs. Subscribers will have access to inventory and will have the right to call on inventory following a "Qualifying Event" such as physical attacks, electromagnetic pulses, solar storms, cyberattacks, earthquakes and severe weather events
  - Regulatory construct will provide subscribers cost certainty as subscription fees will be calculated in a manner similar to FERC formula rates for transmission assets
  - Subscription to the sparing service will be available to all transmission owning entities
- Grid Assurance is currently meeting with potential subscribers and identifying entities that will subscribe to the service; it expects to begin identifying inventory in 2016

**Edison Transmission is one of the companies developing Grid Assurance**

# EIX Annual Dividends Per Share

## Twelve Years of Dividend Growth



**Target dividend growth at a higher than industry growth rate within its target payout ratio of 45-55% of SCE earnings in steps over time**

Note: See use of Non-GAAP Financial Measures in Appendix

# Appendix

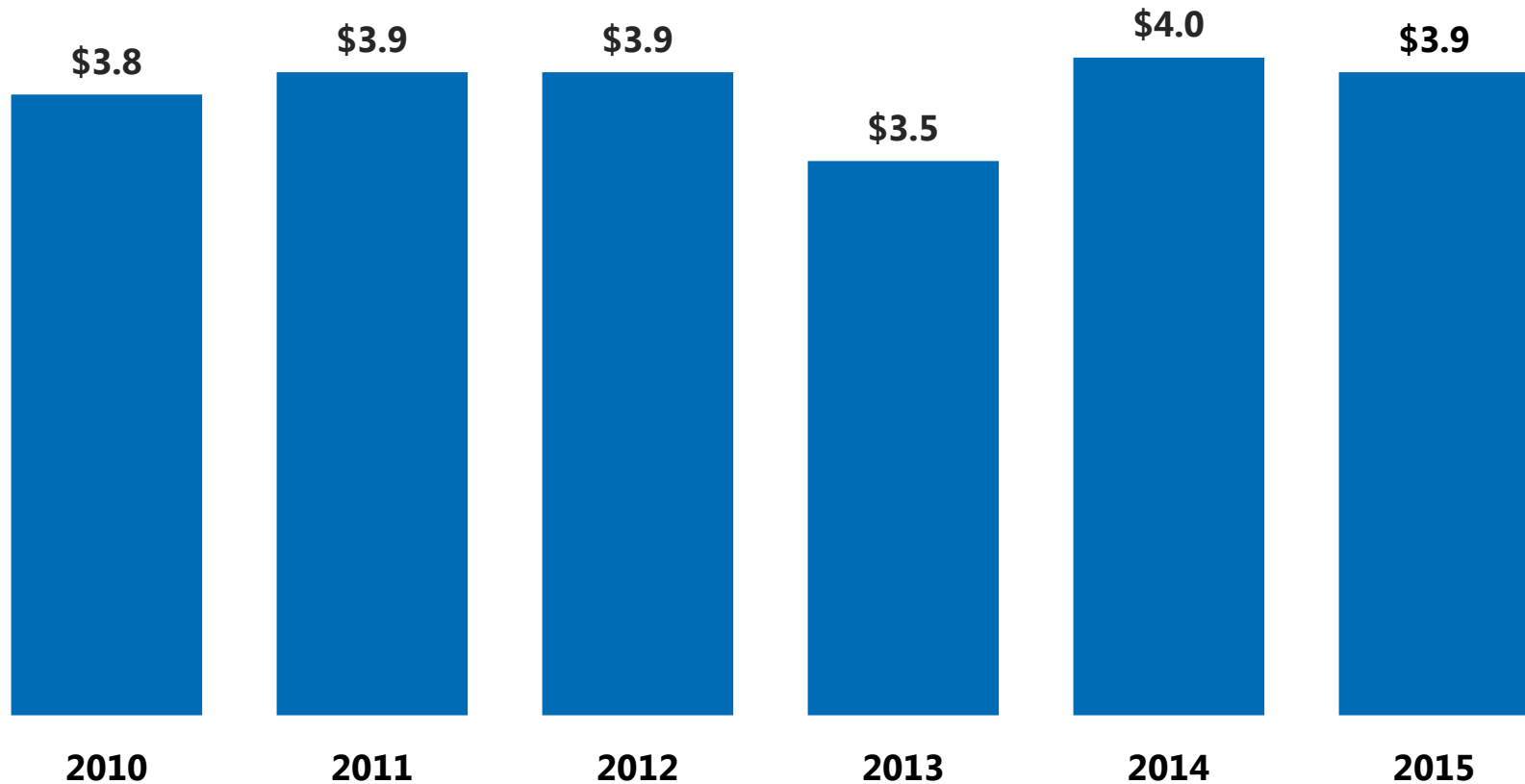
# SCE Tax Memorandum Account

- 2018 GRC continues tax accounting memorandum account (TAMA) established in 2015 GRC decision, which tracks tax benefits or costs associated with changes in:
  - tax accounting methods
  - tax laws and regulations impacting depreciation or tax repair
  - forecasted tax repairs deductions (actual vs. amounts authorized)
  - depreciation or tax repair deductions as a result of an audit; and
  - any impact of a private letter ruling related to normalization
- Once a year, aggregate over or undercollection will be calculated and refunded to or collected from customers
- \$42 million regulatory liability at June 30, 2016; in Q2 2016, \$206 million transferred to a balancing account for refund to customers

Tax Policy	Rate Base and Earnings Implications
Tax Repair Deductions	<ul style="list-style-type: none"><li>• No earnings impact associated with incremental tax repair deductions</li><li>• No rate base impact</li><li>• Flow-through rate making applies</li></ul>
Bonus Depreciation	<ul style="list-style-type: none"><li>• Earnings impacts occur in relevant year of extension rather than next GRC cycle</li><li>• Normalization rate making applies</li></ul>

# SCE Historical Capital Expenditures

(\$ billions)



# Capital Expenditure/Rate Base Detailed Forecast

(\$ in billions)

Detailed Capital Expenditures – 2016-2020						
	2016	2017	2018	2019	2020	Total
Core Distribution <sup>1,2</sup>	\$2.9	\$2.9	\$3.2	\$3.2	\$3.1	\$15.3
Mobile Home Park Conversion	0.1	0.1	-	-	-	0.2
Grid Modernization	0.0	0.2	0.6	0.8	0.7	2.3
<i>Subtotal Distribution</i>	<i>\$3.0</i>	<i>\$3.2</i>	<i>\$3.9</i>	<i>\$3.9</i>	<i>\$3.8</i>	<i>\$17.8</i>
Transmission <sup>1</sup>	\$0.5	\$1.0	\$0.9	\$1.0	\$0.9	\$4.4
Generation <sup>1</sup>	\$0.2	\$0.2	\$0.2	\$0.2	\$0.2	\$1.1
<b>Total</b>	<b>\$3.8</b>	<b>\$4.5</b>	<b>\$5.0</b>	<b>\$5.2</b>	<b>\$4.9</b>	<b>\$23.3</b>

Detailed Rate Base – 2016-2020					
	2016	2017	2018	2019	2020
Traditional Rate Base	\$24.9	\$26.4	\$29.3	\$31.6	\$33.7
Grid Modernization	-	-	0.3	0.8	1.4
<b>Total</b>	<b>\$24.9</b>	<b>\$26.4</b>	<b>\$29.6</b>	<b>\$32.4</b>	<b>\$35.1</b>

1. Includes allocated capitalized overheads and general plant

2. Includes \$12 million Charge Ready Pilot (2016) and \$69 million of Energy Storage (2016-2020; average \$14 million per year)

# Distribution Power Grid of the Future

## Current State

### One-Way Electricity Flow

- System designed to generate electricity from large central plant
- Very few distributed energy resources
- Voltage relatively simple to maintain
- Limited situational awareness and visualization tools for power grid operators

### Renewable Generation Mandates

### Subsidized Residential Solar

### Lack of Electric Vehicle Charging Infrastructure

## Future State

### Variable, Two-Way Electricity Flow

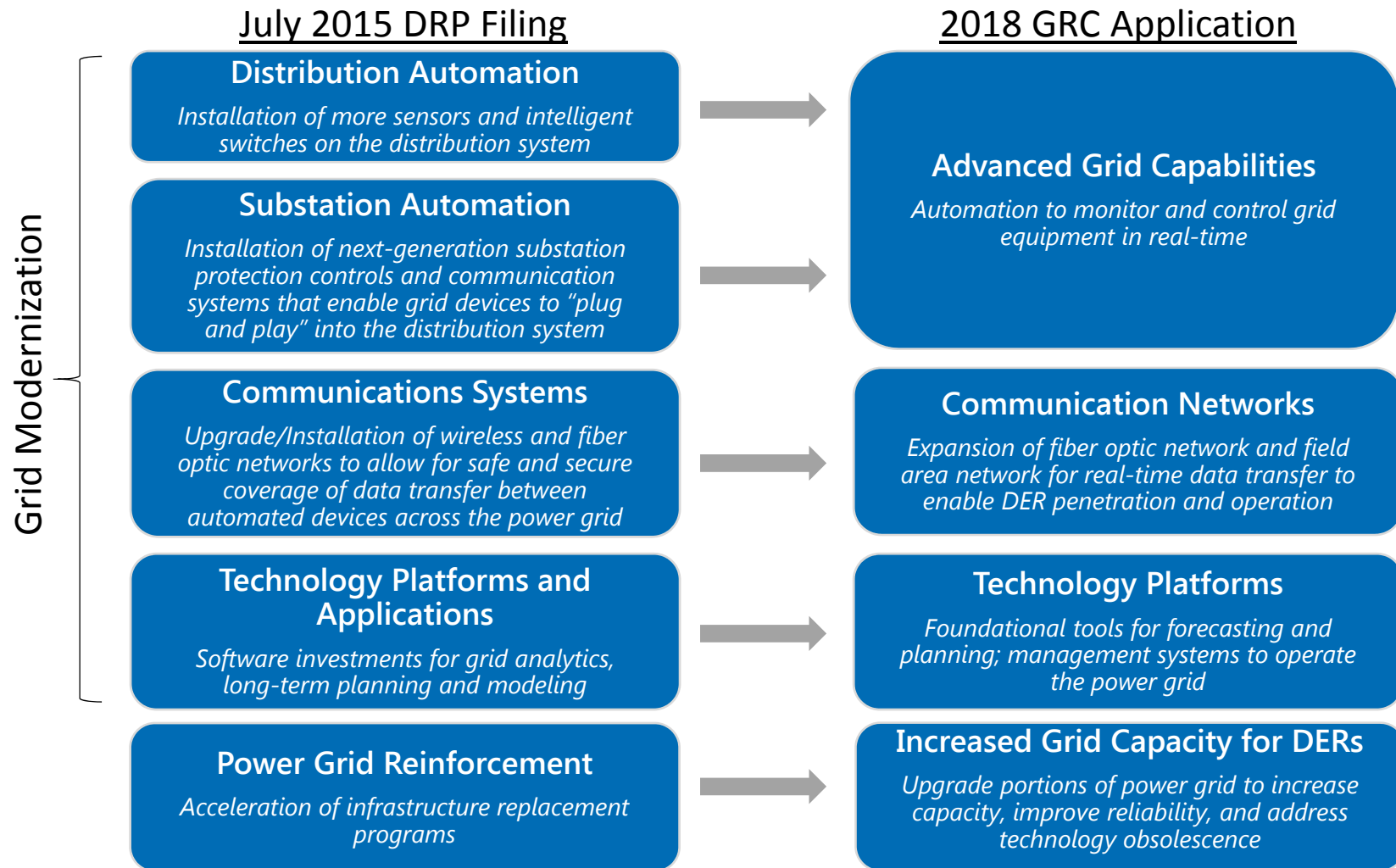
- Distribution system at the center of the power grid
- System designed to serve variable resources and customer demand
- Digital monitoring and control devices and advanced communications systems to manage two-way flows
- Improved data management and power grid operations with cyber mitigation

### Maximize Distributed Resources and Electric Vehicle Adoption

- Distribution power grid infrastructure design supports customer choice and greater resiliency

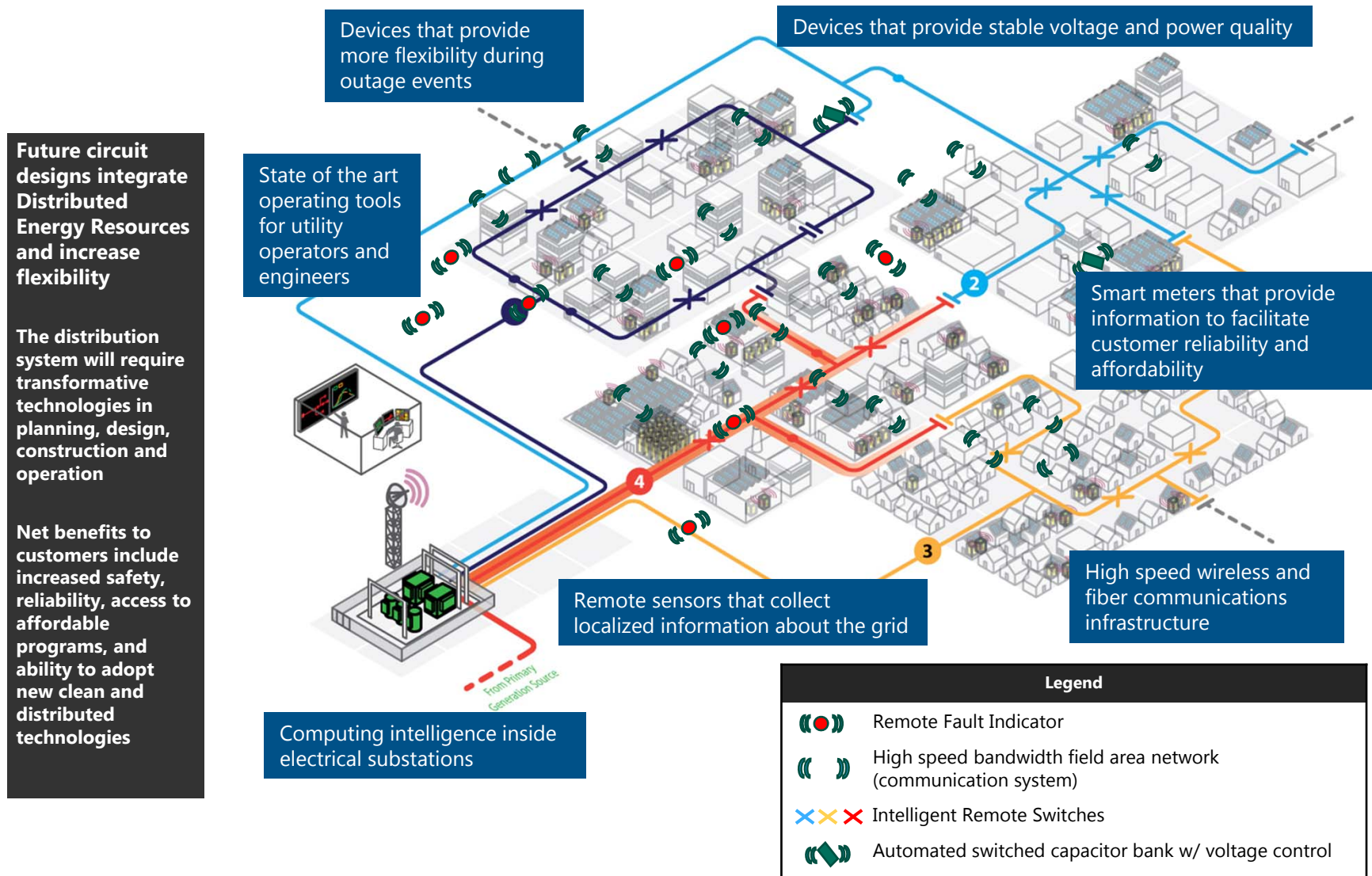


# Grid Modernization Framework

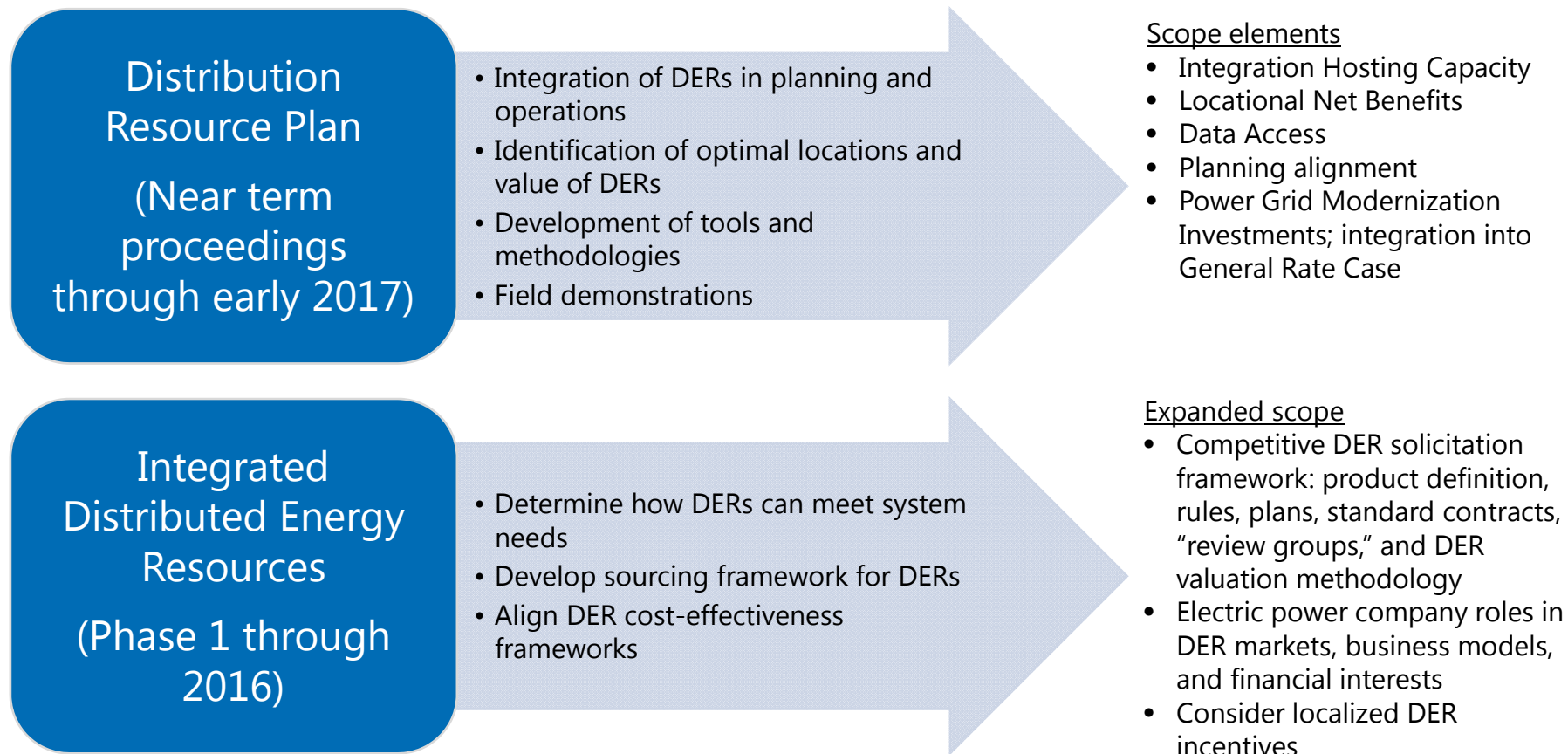


**SCE will leverage its automation and infrastructure replacement programs to implement circuit-specific solutions that improve safety and reliability, while updating the system for continued DER adoption**

# Grid Modernization Highlights

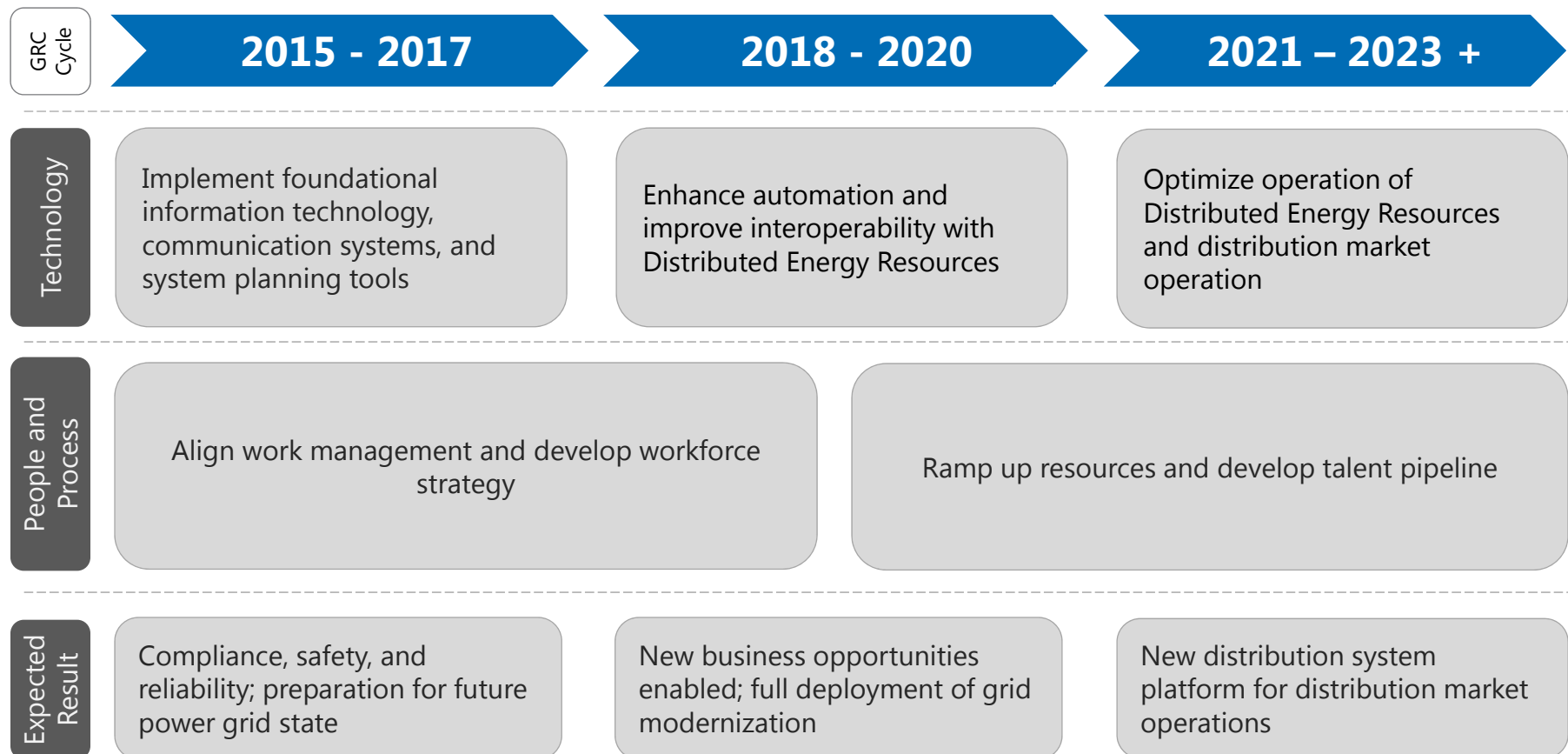


# CPUC Distributed Energy Resources (DER) Proceedings



# Grid Modernization Road Map

**SCE is evolving its DRP timeline based on January 2016 scoping memo, July 2016 memorandum account request and the 2018 General Rate Case application**



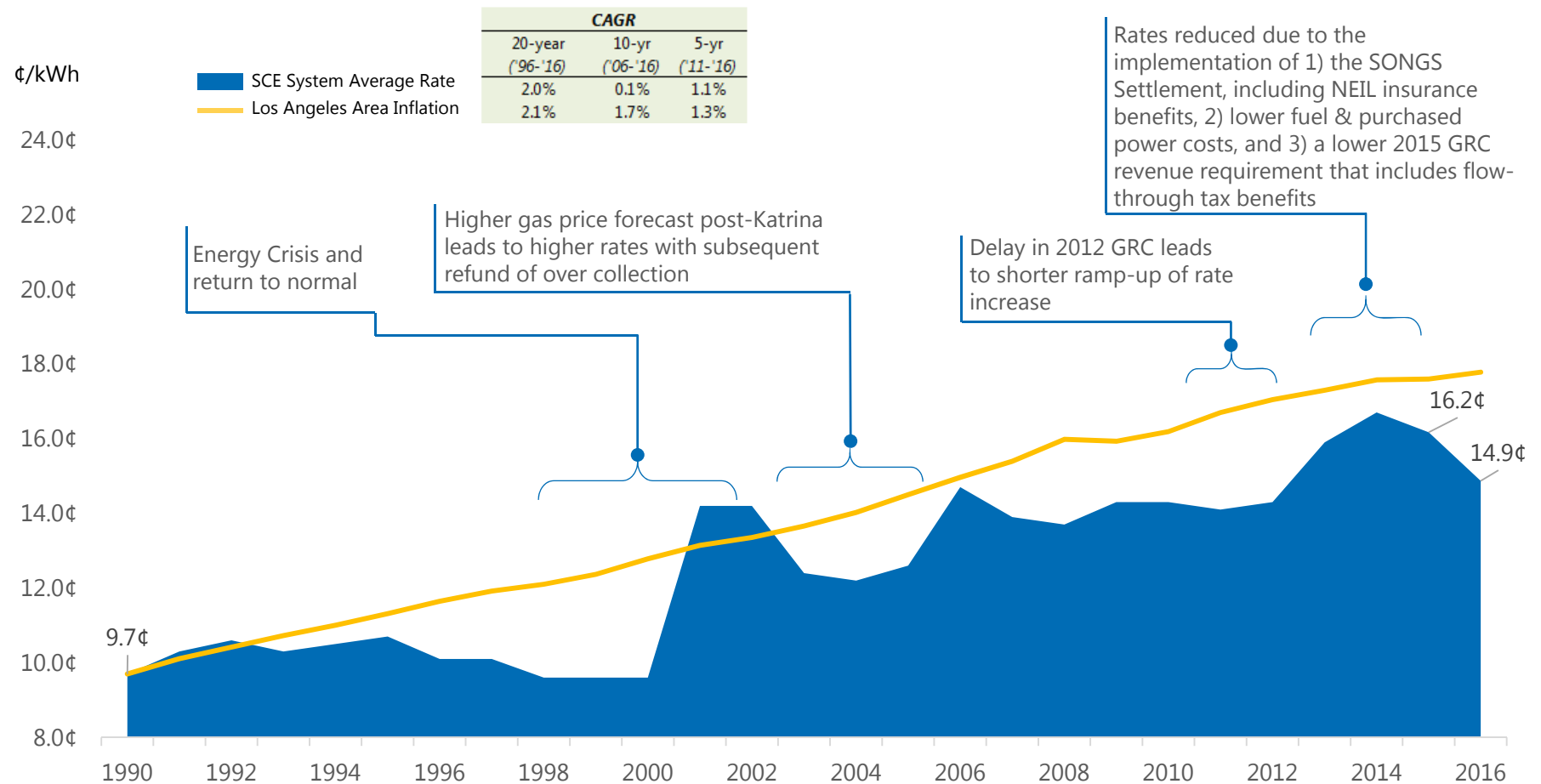
# SCE 2016 Bundled Revenue Requirement

		2016 Bundled Revenue Requirement	
		\$millions	¢/kWh
Fuel & Purchased Power (43%)	<u>Fuel &amp; Purchased Power</u> – includes CDWR Bond Charge	4,928	6.7
	<u>Distribution</u> – poles, wires, substations, service centers; Edison SmartConnect®	4,185	5.7
Distribution (39%)	<u>Generation</u> – owned generation investment and O&M	1,080	1.5
Generation (10%)	<u>Transmission</u> – greater than 220kV	978	1.3
Transmission (9%)	<u>Other</u> – CPUC and legislative public purpose programs, system reliability investments, nuclear decommissioning	(211)	(0.3)
Other (-1%)			
Total Bundled Revenue Requirement (\$millions)		\$10,960	
÷ Bundled kWh (millions)		73,744	
= Bundled Systemwide Average Rate (¢/kWh)		14.9¢	

SCE Systemwide Average Rate History (¢/kWh)					
2010	2011	2012	2013	2014	2015
14.3	14.1	14.3	15.9	16.7	16.2

Note: Rates in effect as of June 1, 2016. Represents bundled service which excludes Direct Access customers that do not receive generation services

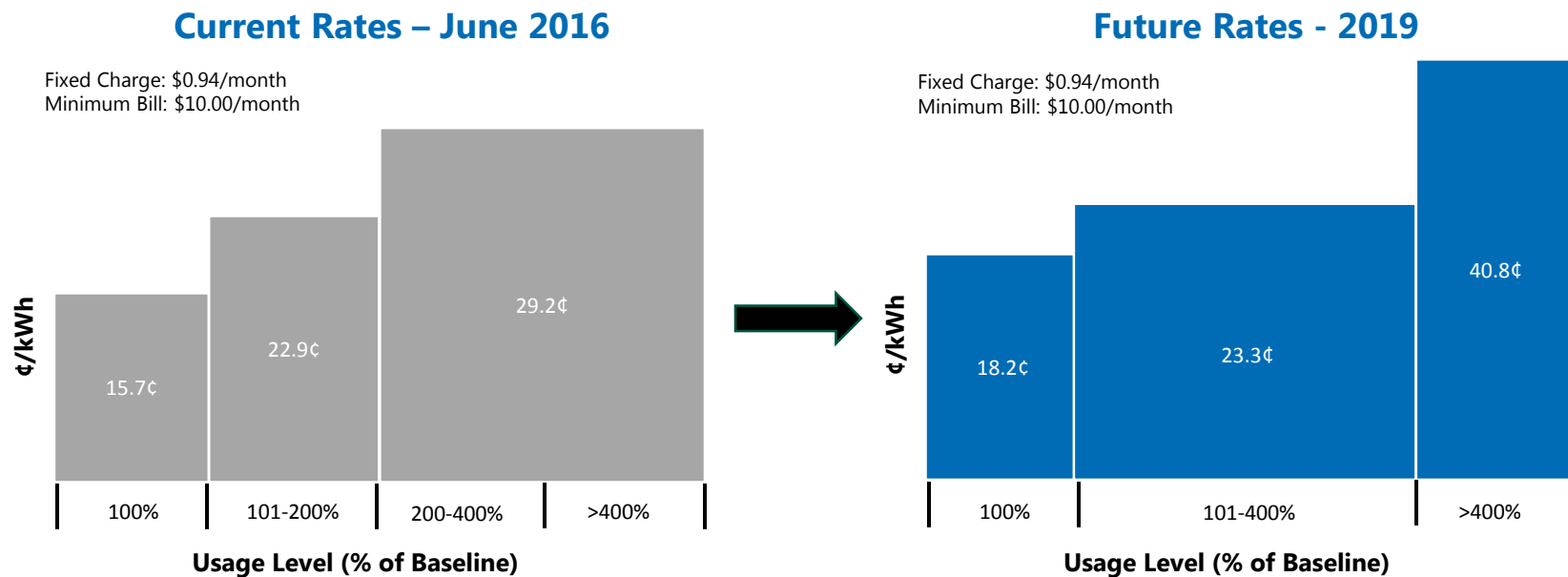
# System Average Rate Historical Growth



**SCE's system average rate has grown at inflation over the last 20 years**

# Residential Rate Design OIR Decision

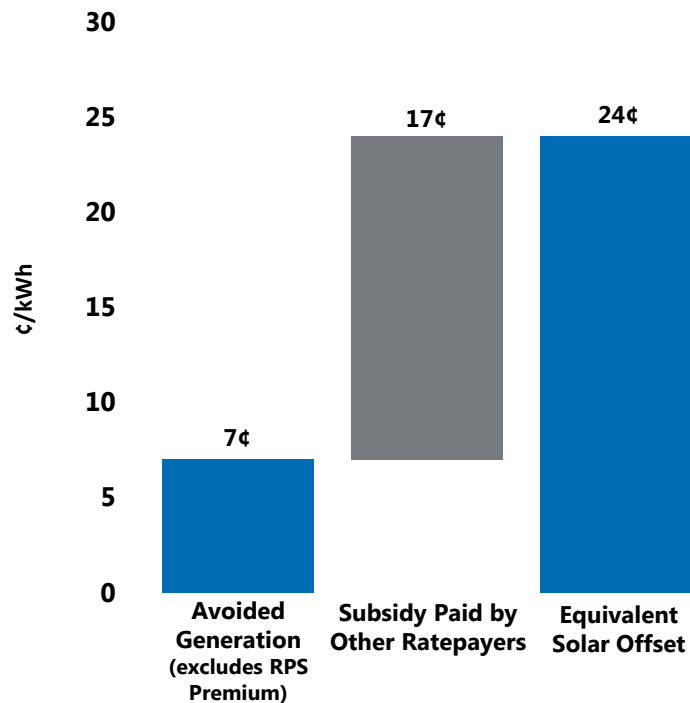
- CPUC Order Instituting Ratemaking R.12-06-013 comprehensively reviewed residential rate structure including a future transition to time of use rates
- July 2015 CPUC Decision D.15-07-001 includes:
  - Transition to 2 tiered rates by 2019
  - “Super User Electric Surcharge” for usage 400% above baseline (~5% of current residential load)
  - Continue fixed charge at \$0.94/month, but rejected requests for increased fixed charges allowing IOUs to re-file fixed charge requests as early as 2018.
  - Minimum bills up to \$10/month which applies to delivery revenue only



Note: Graphs not to scale. 2019 rate levels are based on current revenue requirements

# SCE Net Metering Rate Structure

## Solar Subsidies (Illustrative)



## NEM Rate Developments:

- NEM allows residential customers to receive full-retail credit for exported generation and use these credits to offset energy purchased from the electric power company, leading to a cost-shift to non-NEM customers
  - Through tiered rate flattening, Residential Rate OIR decision is expected to reduce subsidy by about 20%
- Current NEM tariff ends on July 1, 2017 or earlier if NEM installations reach the 5% cap (2,240 MW for SCE)
  - Customers on current tariff grandfathered for 20 years
- In January 2016, CPUC voted (3-2) to adopt a successor to the current NEM tariff
- PG&E, SDG&E, SCE, and TURN filed Applications for Re-hearing (AFRs) on March 7, 2016; Solar Parties filed protest responses to the AFRs on March 21, 2016.

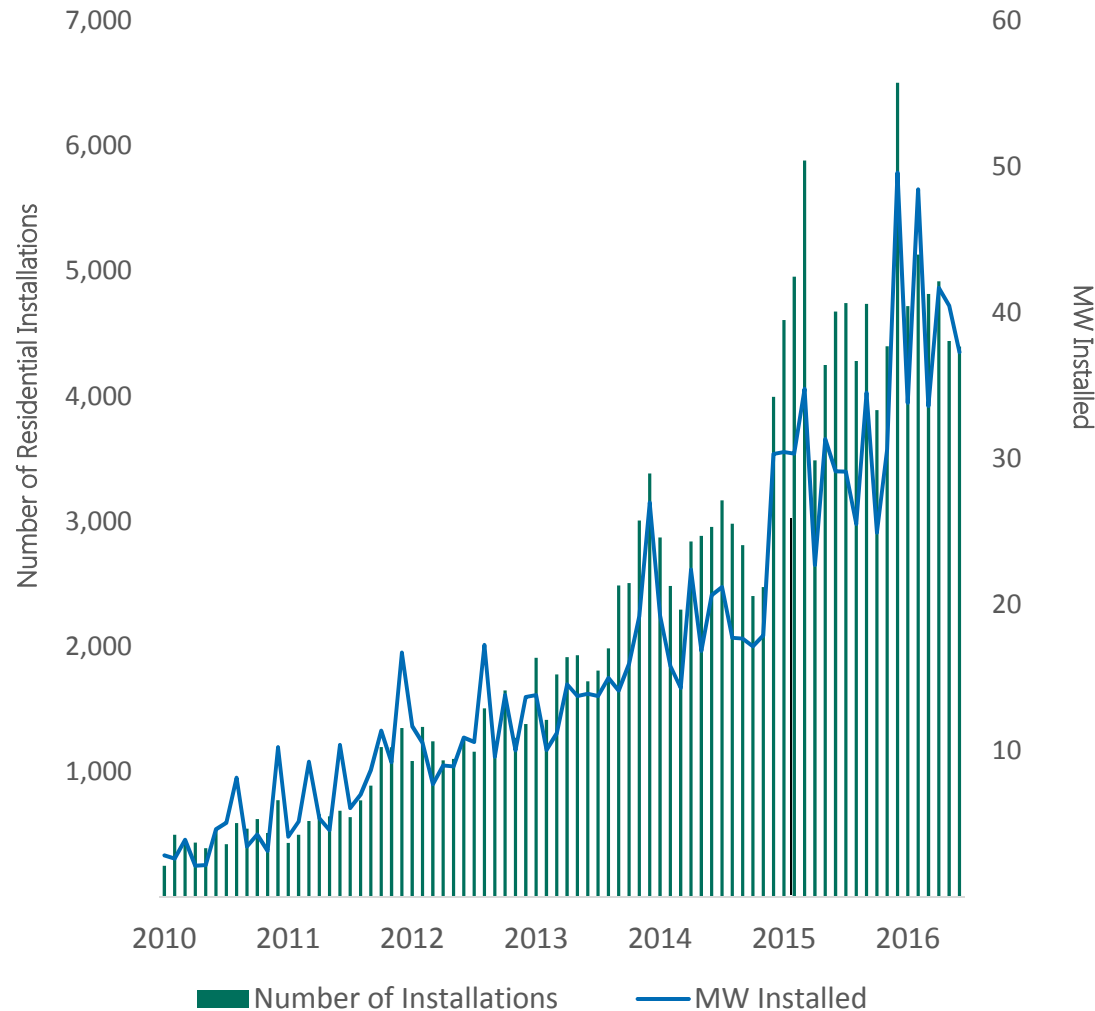
## SCE Net Energy Metering Statistics (June 2016):

- 186,329 combined residential and non-residential projects – 1,463 MW installed (of 2,240 MW cap)
  - 99.8% solar
  - 181,762 residential – 947 MW (4.21% penetration)
  - 4,567 non-residential – 516 MW (0.66% penetration)
- Approximately 2,528,064 MWh/year generated



# Residential Solar Installations in SCE Territory

Monthly Installations and MW Installed



## Key Dates

July 1, 2017

- NEM customers will be required to take service under mandatory Time-of-Use rate

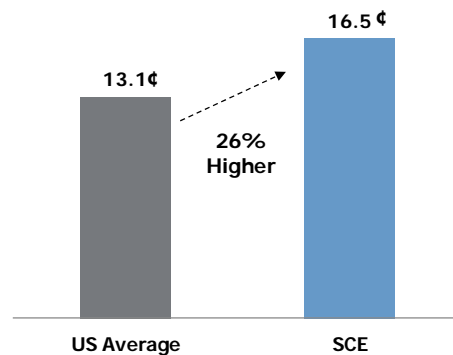
2019

- Commission to revisit NEM Successor Tariff

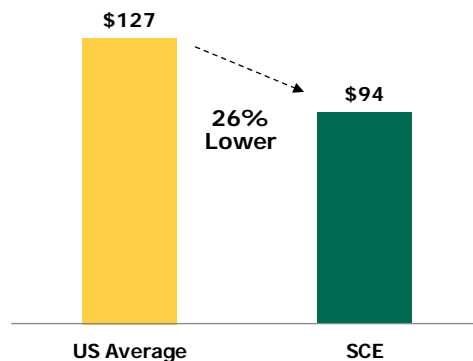
Note: NEM solar installations in SCE service territory include projects with solar PV only less than 1 MW

# SCE Rates and Bills Comparison

**2015 Average Residential Rates  
(¢/kWh)**



**2015 Average Residential Bills  
(\$ per Month)**



**SCE's average residential rates are above national average,  
but residential bills are below national average due to lower energy usage**

## Key Factors

- SCE's residential rates are above national average due, in part, to a cleaner fuel mix – cost for renewables are higher than high carbon sources
- Average monthly residential bills are lower than national average – higher rate levels offset by lower usage
  - 41% lower SCE residential customer usage than national average, from mild climate and higher energy efficiency building standards
- Public policy mandates (33% RPS, AB32 GHG, Once-through Cooling) and electric system requirements will drive rates and bills higher

Source: EIA's Form 826 Data Monthly Electric Utility Sales and Revenue Data for 2015

# SCE Customer Demand Trends

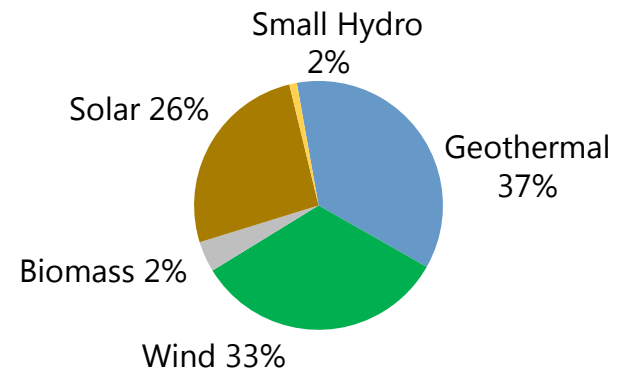
Kilowatt-Hour Sales (millions of kWh)	YTD 2016	2015	2014	2013	2012	2011
Residential	12,960	29,959	30,115	29,889	30,563	29,631
Commercial	19,926	42,207	42,127	40,649	40,541	39,622
Industrial	3,618	7,589	8,417	8,472	8,504	8,490
Public authorities	2,230	4,774	4,990	5,012	5,196	5,206
Agricultural and other	<u>776</u>	<u>1,940</u>	<u>2,025</u>	<u>1,885</u>	<u>1,676</u>	<u>1,318</u>
<i>Subtotal</i>	39,510	86,469	87,674	85,907	86,480	84,267
Resale	623	1,075	1,312	1,490	1,735	3,071
<b>Total Kilowatt-Hour Sales</b>	<b>40,133</b>	<b>87,544</b>	<b>88,986</b>	<b>87,397</b>	<b>88,215</b>	<b>87,338</b>
<b>Customers</b>						
Residential	4,406,167	4,393,150	4,368,897	4,344,429	4,321,171	4,301,969
Commercial	564,056	561,475	557,957	554,592	549,855	546,936
Industrial	10,596	10,811	10,782	10,584	10,922	11,370
Public authorities	46,487	46,436	46,234	46,323	46,493	46,684
Agricultural	21,317	21,306	21,404	21,679	21,917	22,086
Railroads and railways	132	130	105	99	83	82
Interdepartmental	22	22	22	23	24	22
<b>Total Number of Customers</b>	<b>5,048,777</b>	<b>5,033,330</b>	<b>5,005,401</b>	<b>4,977,729</b>	<b>4,950,465</b>	<b>4,929,149</b>
<b>Number of New Connections</b>	<b>19,016</b>	<b>31,653</b>	<b>29,879</b>	<b>27,370</b>	<b>22,866</b>	<b>19,829</b>
<b>Area Peak Demand (MW)</b>	<b>N/A</b>	<b>23,079</b>	<b>23,055</b>	<b>22,534</b>	<b>21,996</b>	<b>22,443</b>

Note: See 2015 Edison International Financial and Statistical Reports for further information

# California's Energy Policy

- On October 7, 2015, Governor Brown signed SB 350, which requires that 50 percent of energy sales to customers come from renewable power and a doubling of energy efficiency in existing buildings for California by 2030
  - Also requires Transportation Electrification investments and Integrated Resources Planning
- In order to meet the 50% RPS requirement by 2030, SCE will need to increase its renewable purchases by 20.2 billion kWh, or 110%

## Actual 2015 Renewable Resources: 24.3% of SCE's portfolio



## Electric Power Company Role

### Renewables

#### Legislative Action

- Emissions targets met through optimization of renewables, transportation electrification, energy efficiency

### Electric Vehicles

#### Regulatory Approach: Company participation through infrastructure investment

- SCE Charge Ready Program
- Distribution power grid investments to meet EV impact

### Energy Efficiency

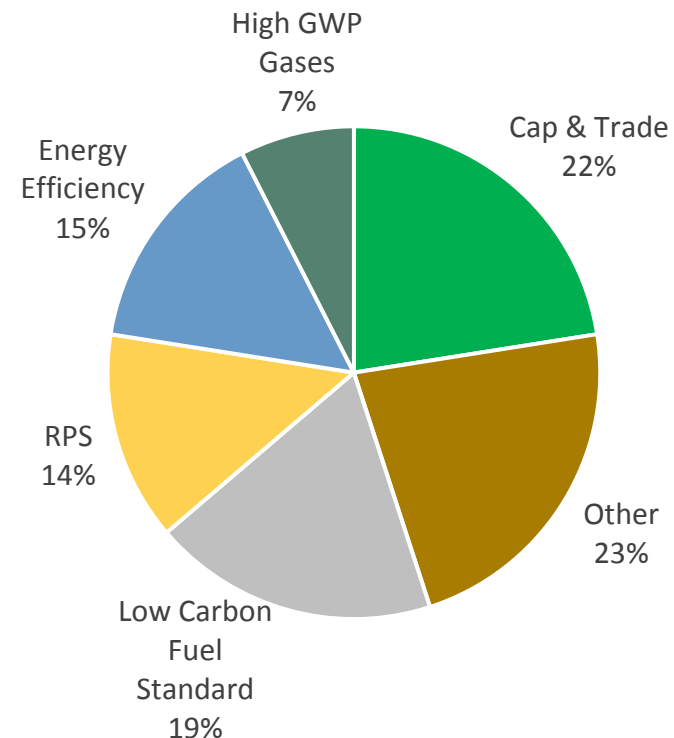
#### Continuation of company programs and earnings incentive mechanism

- SCE 2016 program budget: \$333 million
- \$0.05 per share 2016 earnings potential

# California Cap and Trade Program

- Assembly Bill 32 (2006) – reduces State greenhouse gas (GHG) emissions to 1990 levels by 2020 (~16% reduction)
- Cap and trade program basics:
  - State-wide cap in 2013 – decreases over time
  - Compliance met through allowances, offsets, or emissions reductions
  - Excess allowances sold, or “banked” for future use
  - Linkage with Quebec cap and trade program in 2014, planned linkage with Ontario in 2018
- SCE received 31.4 million 2015 allowances vs. a financial exposure to only 24.5 million metric tons of GHG emissions that same year
- Allowances sold into quarterly auction and bought back for compliance
  - SB 1018 (2012) – auction revenues used for rate relief for residential (~93%), small business, and large industrial customers

**AB32 Emissions Reduction Programs**



# Second Quarter Earnings Summary

	Q2 2016	Q2 2015	Variance	Key SCE EPS Drivers	
<b>Basic Earnings Per Share (EPS)</b>				Revenue <sup>4,5,6</sup>	\$0.10
SCE	\$0.97	\$1.18	\$(0.21)	- CPUC – Escalation	0.09
EIX Parent & Other	(0.11)	(0.02)	(0.09)	- CPUC – Timing of GRC	(0.06)
Discontinued Operations	(0.01)	–	(0.01)	- CPUC – GRC return on pole loading rate base	0.03
<b>Basic EPS</b>	<b>\$0.85</b>	<b>\$1.16</b>	<b>\$(0.31)</b>	- CPUC – Other	0.01
<b>Less: Non-Core Items</b>				- FERC revenue and other	0.03
SCE	\$ –	\$ –	\$ –	Higher depreciation	(0.04)
EIX Parent & Other <sup>1</sup>	0.01	–	0.01	Higher net financing costs	(0.02)
Discontinued Operations <sup>2</sup>	(0.01)	–	(0.01)	Income taxes <sup>5,6</sup>	(0.27)
<b>Total Non-Core Items</b>	<b>\$ –</b>	<b>\$ –</b>	<b>\$ –</b>	- 2015 change in uncertain tax positions	(0.31)
<b>Core Earnings Per Share (EPS)<sup>3</sup></b>				- Higher tax benefits	0.04
SCE	\$0.97	\$1.18	\$(0.21)	Other items	0.02
EIX Parent & Other	(0.12)	(0.02)	(0.10)	Total	<u>\$(0.21)</u>
<b>Core EPS<sup>3</sup></b>	<b>\$0.85</b>	<b>\$1.16</b>	<b>\$(0.31)</b>		
				<b>Key EIX EPS Drivers</b>	
				EIX parent – Higher corporate expenses	\$(0.02)
				EMG – Sold portfolio in 2015	(0.03)
				EEG – Buyout of an earn-out provision, higher operating and development costs	(0.05)
				Non-core items <sup>1,2</sup>	–
				Total	<u>\$(0.10)</u>

1. Impact of hypothetical liquidation at book value (HLBV) accounting method

2. Discontinued Operations: Legacy tax matter related to EME

3. See Earnings Non-GAAP Reconciliations and Use of Non-GAAP Financial Measures in Appendix

4. Excludes San Onofre revenue of \$0.02 and interest expense of \$0.01 which were offset by income taxes of \$(0.03)

5. Excludes revenue and income taxes for 2016 incremental tax repair deductions and pole loading program-based cost of removal of \$0.04

6. Excludes \$0.24 of refunds to customers for incremental tax benefits related to 2012 - 2014 repair deductions

Note: Diluted Earnings were \$0.84 and \$1.15 per share for the three months ended June 30, 2016 and 2015, respectively

# YTD 2016 Earnings Summary

	YTD 2016	YTD 2015	Variance	Key SCE EPS Drivers	
<b>Basic Earnings Per Share (EPS)</b>				Revenue <sup>3,4,5</sup>	\$0.15
SCE	\$1.85	\$2.12	\$(0.27)	- CPUC – Escalation	0.17
EIX Parent & Other	(0.17)	(0.04)	(0.13)	- CPUC – Timing of GRC	(0.12)
Discontinued Operations	–	–	–	- CPUC – GRC return on pole loading rate base	0.05
<b>Basic EPS</b>	<b>\$1.68</b>	<b>\$2.08</b>	<b>\$(0.40)</b>	- CPUC – Other	(0.01)
<b>Less: Non-Core Items</b>				- FERC revenue and other	0.06
SCE	\$ –	\$ –	\$ –	Higher O&M	(0.04)
EIX Parent & Other <sup>1</sup>	0.01	0.02	(0.01)	Higher depreciation	(0.06)
Discontinued Operations	–	–	–	Higher net financing costs	(0.03)
<b>Total Non-Core Items</b>	<b>\$0.01</b>	<b>\$0.02</b>	<b>\$(0.01)</b>	Income taxes <sup>4,5</sup>	(0.29)
<b>Core Earnings Per Share (EPS)<sup>2</sup></b>				- 2015 Change in uncertain tax positions	(0.31)
SCE	\$1.85	\$2.12	\$(0.27)	- Higher tax benefits	0.02
EIX Parent & Other	(0.18)	(0.06)	(0.12)	Total	\$(0.27)
<b>Core EPS<sup>2</sup></b>	<b>\$1.67</b>	<b>\$2.06</b>	<b>\$(0.39)</b>		
				<b>Key EIX EPS Drivers</b>	
				EIX parent – Higher corporate expenses	\$(0.01)
				EMG – Sold portfolio in 2015	(0.04)
				EEG – Buyout of an earn-out provision, higher operating and development costs	(0.07)
				Non-core items <sup>1</sup>	(0.01)
				Total	\$(0.13)

1. Impact of hypothetical liquidation at book value (HLBV) accounting method

2. See Earnings Non-GAAP Reconciliations and Use of Non-GAAP Financial Measures in Appendix

3. Excludes San Onofre revenue of \$0.03, interest expense of \$0.01, and property taxes of \$0.01 which were offset by income taxes of \$(0.05)

4. Excludes revenue and income taxes for 2016 incremental tax repair deductions and pole loading program-based cost of removal of \$0.17

5. Excludes \$0.24 of refunds to customers for incremental tax benefits related to 2012 - 2014 repair deductions

Note: Diluted Earnings were \$1.66 and \$2.06 per share for the six months ended June 30 2016 and 2015, respectively

# SCE Results of Operations

(\$ millions)

- Earning activities – revenue authorized by CPUC and FERC to provide reasonable cost recovery and return on investment
- Cost-recovery activities – CPUC- and FERC-authorized balancing accounts to recover specific project or program costs, subject to reasonableness review or compliance with upfront standards

	2015			2014		
	Earning Activities	Cost-Recovery Activities	Total Consolidated	Earning Activities	Cost-Recovery Activities	Total Consolidated
Operating revenue	\$6,305	\$5,180	\$11,485	\$6,831	\$6,549	\$13,380
Purchased power and fuel	—	4,266	4,266	—	5,593	5,593
Operation and maintenance	1,977	913	2,890	2,106	951	3,057
Depreciation, decommissioning and amortization	1,915	—	1,915	1,720	—	1,720
Property and other taxes	334	—	334	318	—	318
Impairment and other charges	—	—	—	163	—	163
Total operating expenses	4,226	5,179	9,405	4,307	6,544	10,851
<b>Operating income</b>	2,079	1	2,080	2,524	5	2,529
Interest expense	(525)	(1)	(526)	(528)	(5)	(533)
Other income and expenses	64	—	64	43	—	43
<b>Income before income taxes</b>	1,618	—	1,618	2,039	—	2,039
Income tax expense	507	—	507	474	—	474
<b>Net income</b>	1,111	—	1,111	1,565	—	1,565
Preferred and preference stock dividend requirements	113	—	113	112	—	112
<b>Net income available for common stock</b>	\$998	\$—	\$998	\$1,453	\$—	\$1,453
Core earnings			\$1,368			\$1,525
Non-core earnings			(370)			(72)
<b>Total SCE GAAP earnings</b>			\$998			\$1,453

Note: See Use of Non-GAAP Financial Measures in Appendix



# Earnings Non-GAAP Reconciliations

(\$ millions)

## Reconciliation of EIX GAAP Earnings to EIX Core Earnings

Earnings Attributable to Edison International	Q2 2016	Q2 2015	YTD 2016	YTD 2015
SCE	\$315	\$384	\$601	\$689
EIX Parent & Other	(37)	(5)	(54)	(11)
Discontinued operations	(2)	—	(1)	—
<b>Basic Earnings</b>	<b>\$276</b>	<b>\$379</b>	<b>\$546</b>	<b>\$678</b>
<b>Non-Core Items</b>				
SCE	\$ —	\$ —	\$ —	\$ —
EIX Parent & Other	2	1	4	6
Discontinued operations	(2)	—	(1)	—
<b>Total Non-Core</b>	<b>\$ —</b>	<b>\$1</b>	<b>\$3</b>	<b>\$6</b>
<b>Core Earnings</b>				
SCE	\$315	\$384	\$601	\$689
EIX Parent & Other	(39)	(6)	(58)	(17)
<b>Core Earnings</b>	<b>\$276</b>	<b>\$378</b>	<b>\$543</b>	<b>\$672</b>

Note: See Use of Non-GAAP Financial Measures in Appendix

# SCE Core EPS Non-GAAP Reconciliations

Reconciliation of SCE Basic Earnings Per Share to SCE Core Earnings Per Share

Earnings Per Share Attributable to SCE	2010	2011	2012	2013	2014	2015	CAGR
<b>Basic EPS</b>	<b>\$3.19</b>	<b>\$3.33</b>	<b>\$4.81</b>	<b>\$2.76</b>	<b>\$4.46</b>	<b>\$3.06</b>	<b>(1%)</b>
<b>Non-Core Items</b>							
Tax settlement	0.30	—	—	—	—	—	
Health care legislation	(0.12)	—	—	—	—	—	
Regulatory and tax items	—	—	0.71	—	—	—	
Write down, impairment and other charges	—	—	—	(1.12)	(0.22)	(1.18)	
Insurance recoveries	—	—	—	—	—	0.04	
<i>Less: Total Non-Core Items</i>	<i>0.18</i>	<i>—</i>	<i>0.71</i>	<i>(1.12)</i>	<i>(0.22)</i>	<i>(1.14)</i>	
<b>Core EPS</b>	<b>\$3.01</b>	<b>\$3.33</b>	<b>\$4.10</b>	<b>\$3.88</b>	<b>\$4.68</b>	<b>\$4.20</b>	<b>7%</b>

Note: See Use of Non-GAAP Financial Measures in Appendix

# Use of Non-GAAP Financial Measures

Edison International's earnings are prepared in accordance with generally accepted accounting principles used in the United States. Management uses core earnings internally for financial planning and for analysis of performance. Core earnings are also used when communicating with investors and analysts regarding Edison International's earnings results to facilitate comparisons of the Company's performance from period to period. Core earnings are a non-GAAP financial measure and may not be comparable to those of other companies. Core earnings (or losses) are defined as earnings or losses attributable to Edison International shareholders less income or loss from discontinued operations and income or loss from significant discrete items that management does not consider representative of ongoing earnings, such as: exit activities, including sale of certain assets, and other activities that are no longer continuing; asset impairments and certain tax, regulatory or legal settlements or proceedings.

A reconciliation of Non-GAAP information to GAAP information is included either on the slide where the information appears or on another slide referenced in this presentation.

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