

CDCR & UTILITY PARTNERSHIPS



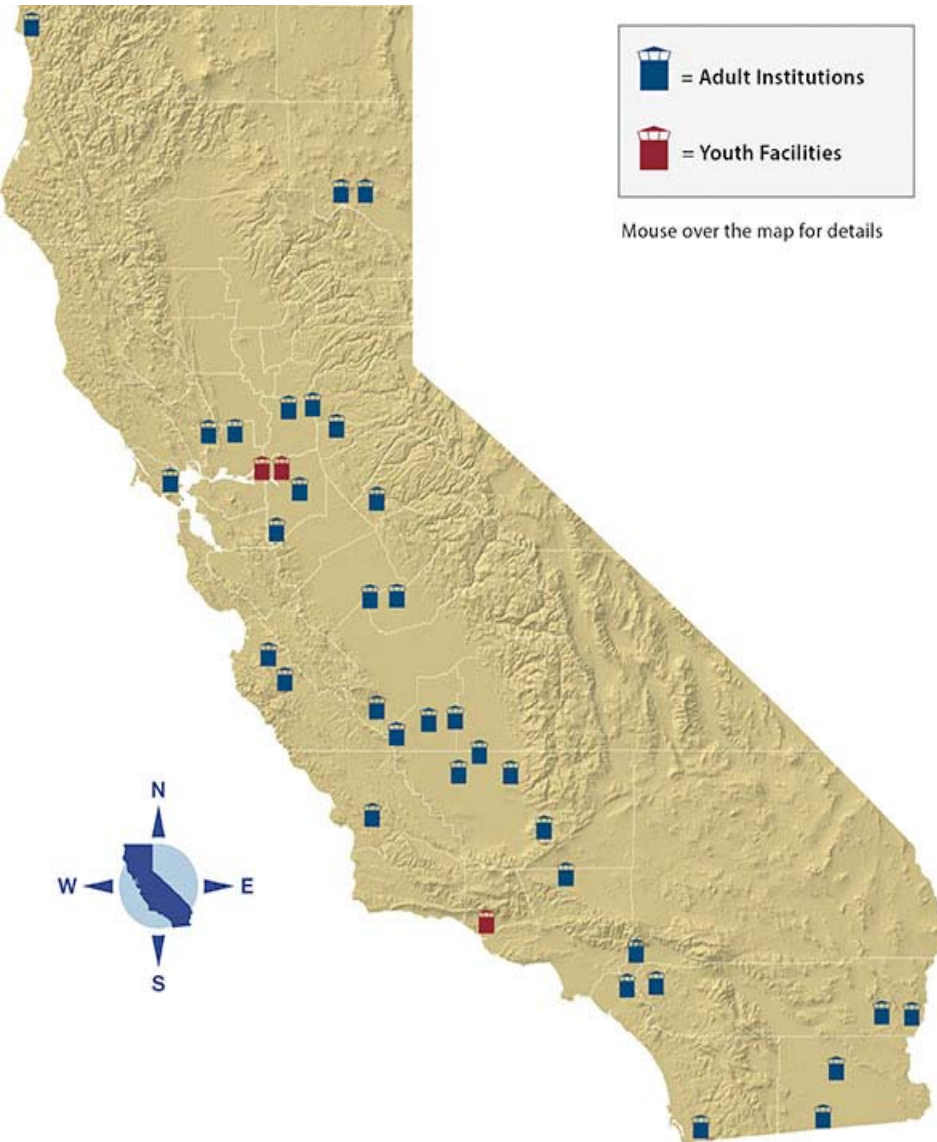
Where We Are
Where We're Going



About CDCR

- ▶ Provide incarceration of and rehabilitation to State's violent felons
 - In prison population is approximately 125,000 inmates
 - CDCR employs over 59,000 employees
- ▶ The CDCR portfolio consists 43 active state owned sites, 99 leased locations
 - 6,432 buildings
 - 44.7 million square feet in owned facilities
 - 2.3 million square feet of leased facilities
 - 24,200 acres
 - Replacement value of \$24.5 billion
- ▶ CDCR Annual Energy Usage
 - 2013 Total Electricity - 594 MWh for a total cost over \$63 million
 - 2013 Total Natural Gas - 40,029,479 therms for a total cost of over \$22.5 million

CDCR Locations





Executive Order B-18-12

- ▶ Signed April 25, 2012
- ▶ Includes Green Building Action Plan
- ▶ Reduce Energy Use 20% by 2018
 - Using 2003 Baseline & Energy Star Portfolio Manager database
- ▶ Reduce Water Use 10% by 2015, 20% by 2020
 - Using 2010 or earlier baseline
- ▶ Reduce Greenhouse Gas Emissions 10 % by 2015, 20% by 2020
 - Using 2010 Baseline
 - CDCR is a member of the Climate Registry



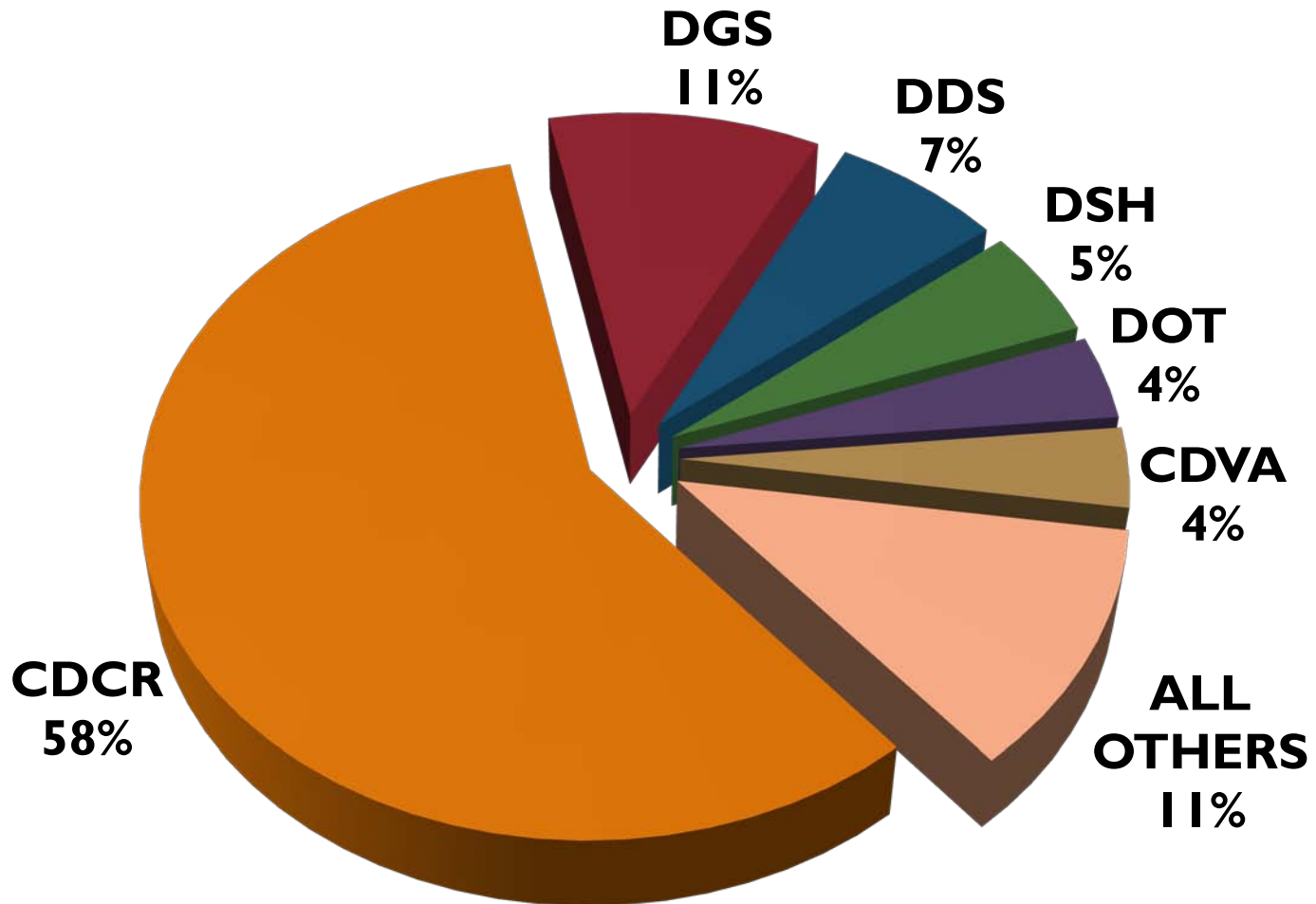


Green Building Action Plan

- ▶ **Energy**
 - Zero-Net
 - Exceed Title 24 by 15%
 - Reduce grid-based energy purchases by 20% by 2018
 - Demand response programs
 - ▶ **On-Site Renewable Energy**
 - Solar PV arrays totaling 32.4 MW at II institutions
 - Collaborating with DGS on an IFB for Wind Turbines
 - ▶ **Water Efficiency – Energy Water Nexus**
 - ▶ **Building Design & Construction**
 - LEED “Silver” for over 10,000 SF, CALGREEN Tier I for under 10,000 SF
 - ▶ **Building Commissioning**
 - ▶ **Existing Buildings LEED-EB certification by 2016**
 - ▶ **Electric Vehicle Charging Stations**
 - ▶ **Environmentally Preferable Purchasing**
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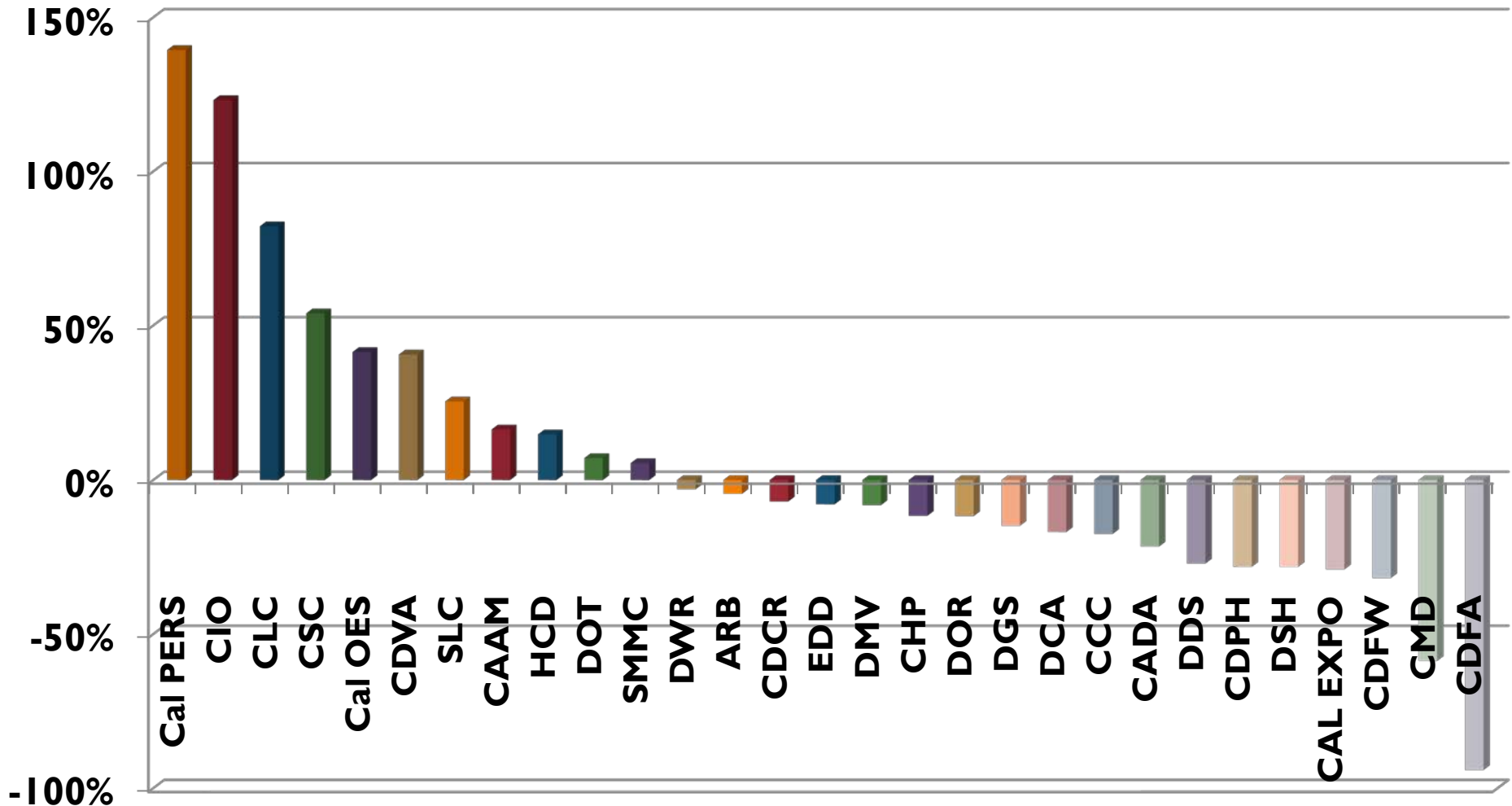
Statewide Energy Use Breakdown



ENERGY

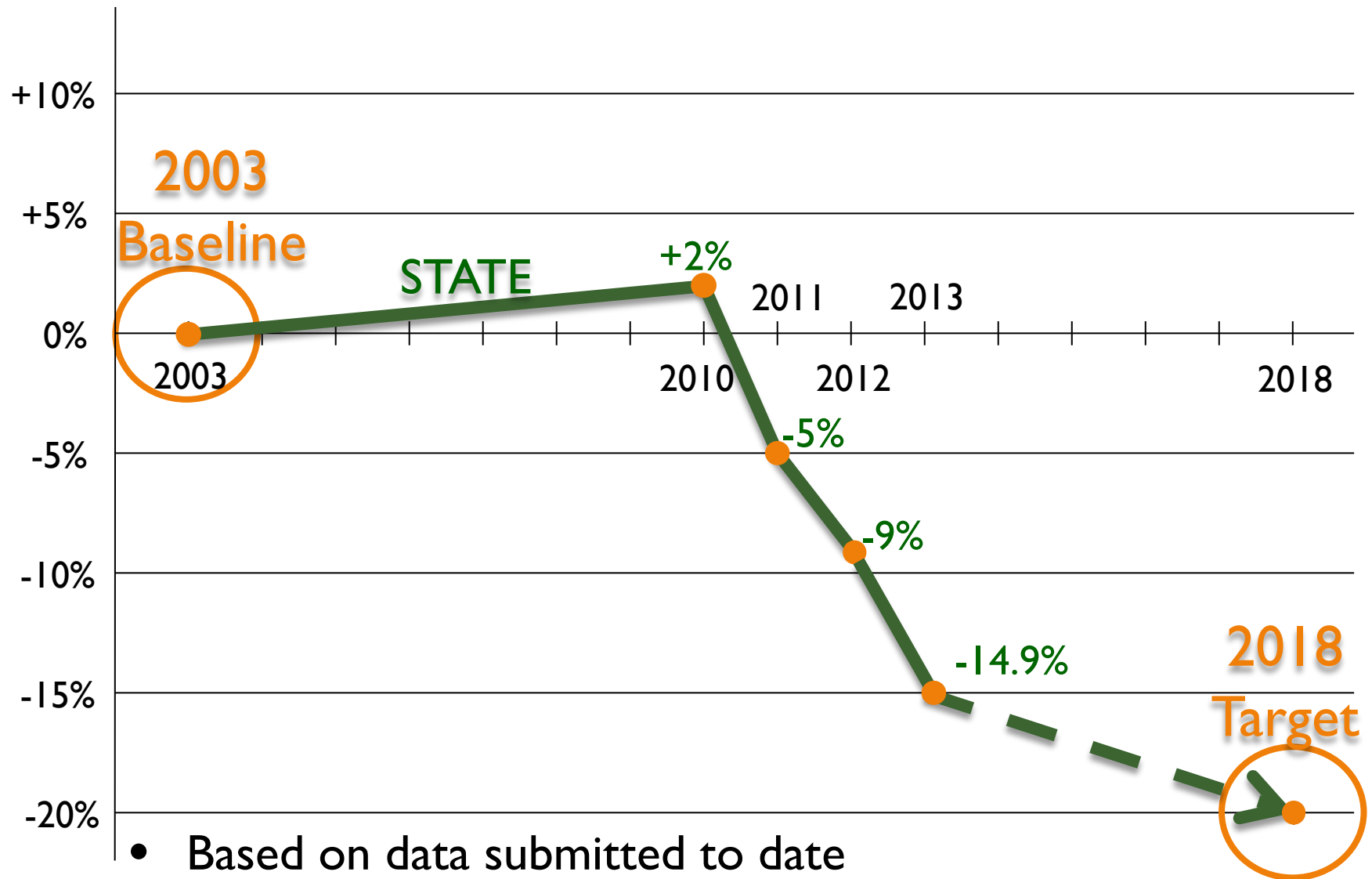
14.9% Decrease 2003-2013

Change in Energy Use 2003-2013





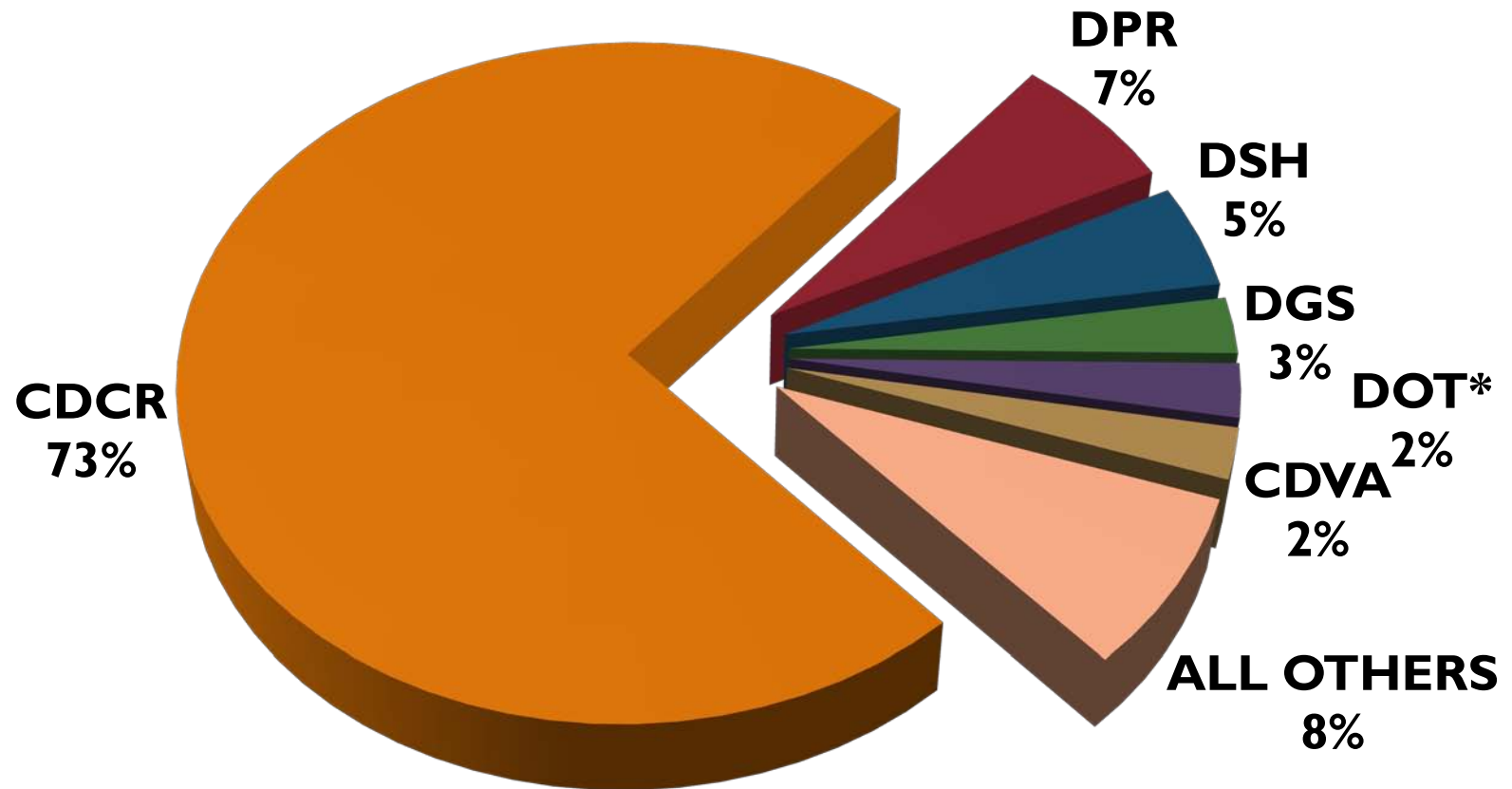
Statewide Energy Use Reduction





Statewide Water Use Breakdown

State facilities, *not including CalTrans Highway Irrigation



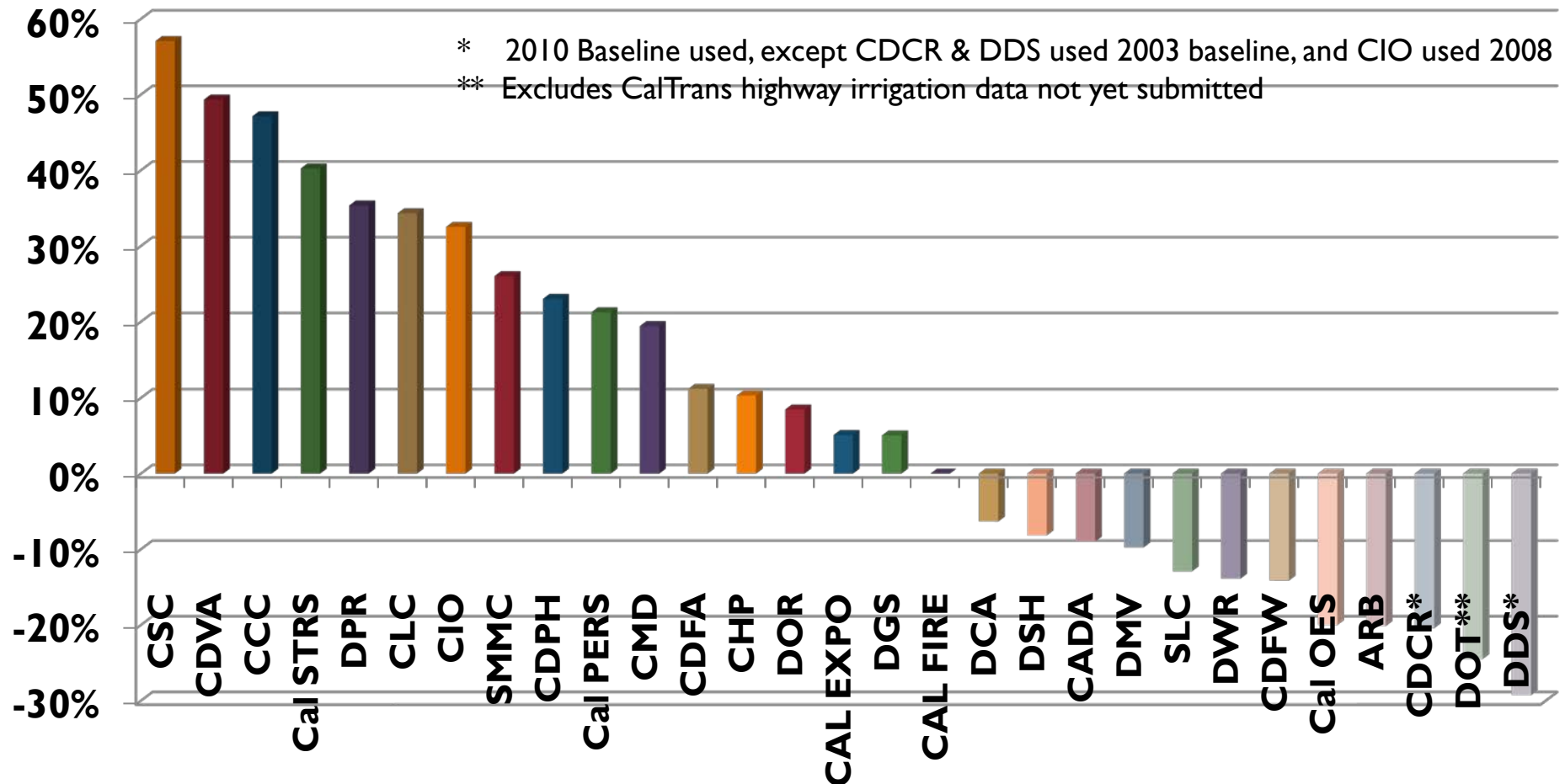
WATER

1.9% Reduction 2010*-2013



Change in Water Use 2010-2013*

- Preliminary findings based on submitted, completed data
- Departments without complete data, or not providing data excluded





CDCR Financing

▶ Internal Funding

- Special Repair Project (SRP) Annual Budget is \$28 million
- FY 13/14- CDCR was able to fund 162 projects.
- FY 13/14- Unfunded projects total 1,041 projects with a project valuation of \$1.03 B
- FY SRP Funding provides less than 3% of the required funding needed for reported SR projects

▶ External Funding

- CDCR/IOU Partnership
 - Utility On-Bill Financing (OBF)
 - Utility On-Bill Repayment (OBR)
 - Incentives & Rebates, Savings by Design
- ARRA
 - State Revolving Funds
- GS \$Mart
- Power Purchase Agreements (PPA's)
- Department of Water Resources (DWR) Grants

▶ Project Delivery

- Energy Services Contractors (ESCO's)
- A&E Retainer Contracts



CDCR/IOU Partnership

- ▶ The CDCR Partnership is a statewide energy-efficiency program that accomplishes immediate and long-term peak energy demand savings through sustainable, long-term and comprehensive energy management programs at CDCR institutions served by California's four investor-owned utilities (IOUs).





CDCR/IOU Partnership

Cycle	Count	kWh	therms	Incentive	Cost	Cost Savings	GHGe
2006-08	18	20,843,638	217,032	\$5,147,285	\$10,185,611	\$1,872,809	8,030
2009	29	29,475,229	446,793	\$7,062,592	\$14,386,718	\$2,556,664	12,100
2010-12	62	51,110,480	1,596,227	\$13,437,949	\$53,354,187	\$5,277,348	25,353
2013- 5/1/14	75	53,634,866	1,887,641	\$13,972,840	\$54,319,504	\$5,663,630	27,737
5/2/14-beyond	119	73,855,802	3,258,578	\$20,053,427	\$77,478,884	\$8,407,342	41,702

Cycle Based and Cumulative Incentives Paid

