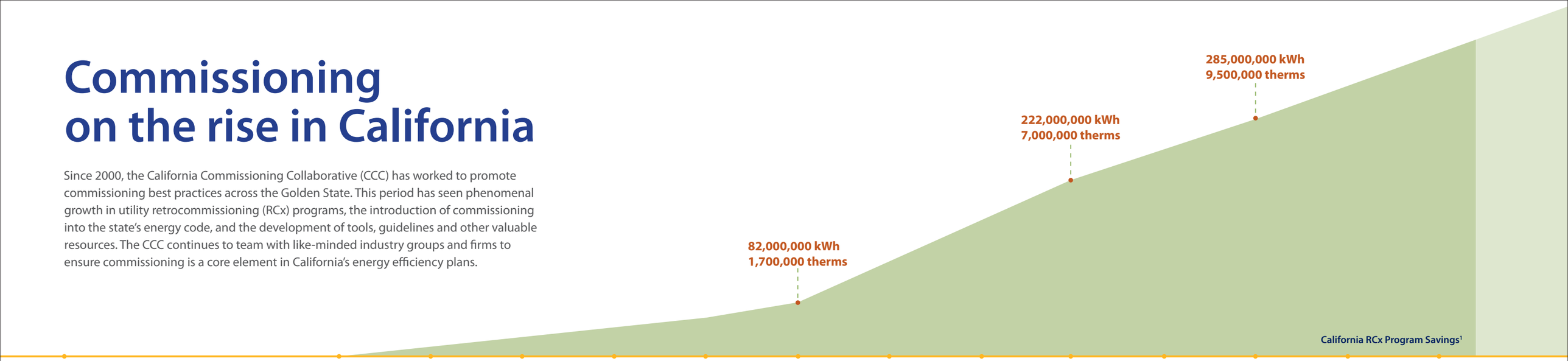
Commissioning on the rise in California

Since 2000, the California Commissioning Collaborative (CCC) has worked to promote commissioning best practices across the Golden State. This period has seen phenomenal growth in utility retrocommissioning (RCx) programs, the introduction of commissioning into the state's energy code, and the development of tools, guidelines and other valuable resources. The CCC continues to team with like-minded industry groups and firms to ensure commissioning is a core element in California's energy efficiency plans.



2000

CCC formed as an ad hoc group with leadership from California Energy Commission, Lawrence Berkeley National Laboratory (LBNL) and utilities

SMUD launches RCx program pilot (1999)

Commissioning incorporated into Savings by Design program

California Commissioning Market Characterization Study released

2004

CCC incorporated as California nonprofit

LBNL publishes commissioning test protocol library

LBNL completes High Performance Commercial Building Systems project, with a major focus on Cx

CCC launches online library as go-to commissioning resource

LBNL releases study on costs and benefits of commissioning

USGBC introduces LEED for existing buildings with RCx as prerequisite[2]

LBNL releases study on persistence of SMUD RCx program savings

2006

CCC publishes commissioning guides for new and existing buildings

CCC commences 2006-2008 PIER research program

Functional testing and design guides are published

California Department of General Services publishes in-house commissioning guide for small buildings

2008

CCC publishes RCx toolkit

CCC publishes verification of RCx savings guidelines and fan savings calculation workbooks

USGBC adds ongoing commissioning to LEED for existing buildings[2]

CPUC's Long Term Energy Efficiency Strategic Plan promotes greater adoption of commissioning

2010

CCC commences 2009-2012 PIER research program

LBNL publishes updated cost/ benefit study

2012

CCC releases BOA savings calculation tool, co-developed by California investor-owned utilities

San Francisco adopts Existing Commercial Buildings Energy Performance Ordinance

CCC releases C-BOA, Building Performance Tracking Handbook, VoS guidelines, and ECAM v2.0

Title 24 acceptance testing research completed

PG&E hosts Whole Building Workshop

Commissioning included in CalGREEN building standards

International Code Council commissioning guidelines published

2014

CCC commences work on CASE project to add design review to California Energy Efficiency Standards

ASHRAE releases Standard 202 (Commissioning Process for Buildings and Systems)

Diagnostics / M&V module added to Universal Translator

Commissioning design review added to California Energy Efficiency Standards

CalGREEN commissioning requirements transfered to Title 24, Part 6

US Department of Energy releases Better Buildings Workforce Guidelines

California Energy Commission's Existing Buildings Energy Efficiency Action Plan calls for RCx to become standard practice for buildings over 25,000 sq. ft. by 2020

2016

CCC develops 2016-2020 Strategic Plan

Senate Bill 350 names RCx as a key element toward doubling energy efficiency in California by 2030

Commissioning CA Cx Collaborative

1. RCx Program savings data from eestats.cpuc.ca.gov
2. usgbc.org