

Solar Farming in the Refinery's Backyard



RICHMOND, CA

- Diverse City of 107,000
- 17 Miles Northeast of SF
- 32 Miles of Bay Shoreline





Q.

How can cities combine
public power programs
and **land use authority** to
generate & build green
power locally?

Q.

What are the
unanticipated
challenges in
**generating & building
green power locally?**

The Story.

Marin Clean Energy:
California's Leading CCA



Richmond's Decision on Choice
and Local Development

Powering Local Labor



Solar Farming at the Refinery



Marin Clean Energy

Community Choice for Energy Supply

Our Mission

Address climate change by
**reducing energy
related greenhouse
gas emissions**



MCE Service Territory



Local Government
Marin Clean Energy



RENEWABLE ENERGY
Electric Generation

Distribution Utility
Pacific Gas & Electric



SAME SERVICE AS ALWAYS
Electric Delivery

Customer



YOUR COMMUNITY CHOICE
A Greener Electric Option

How MCE Works

Marin Clean Energy Makes History

2008

MCE formed

2010

service began

2012

Richmond joins

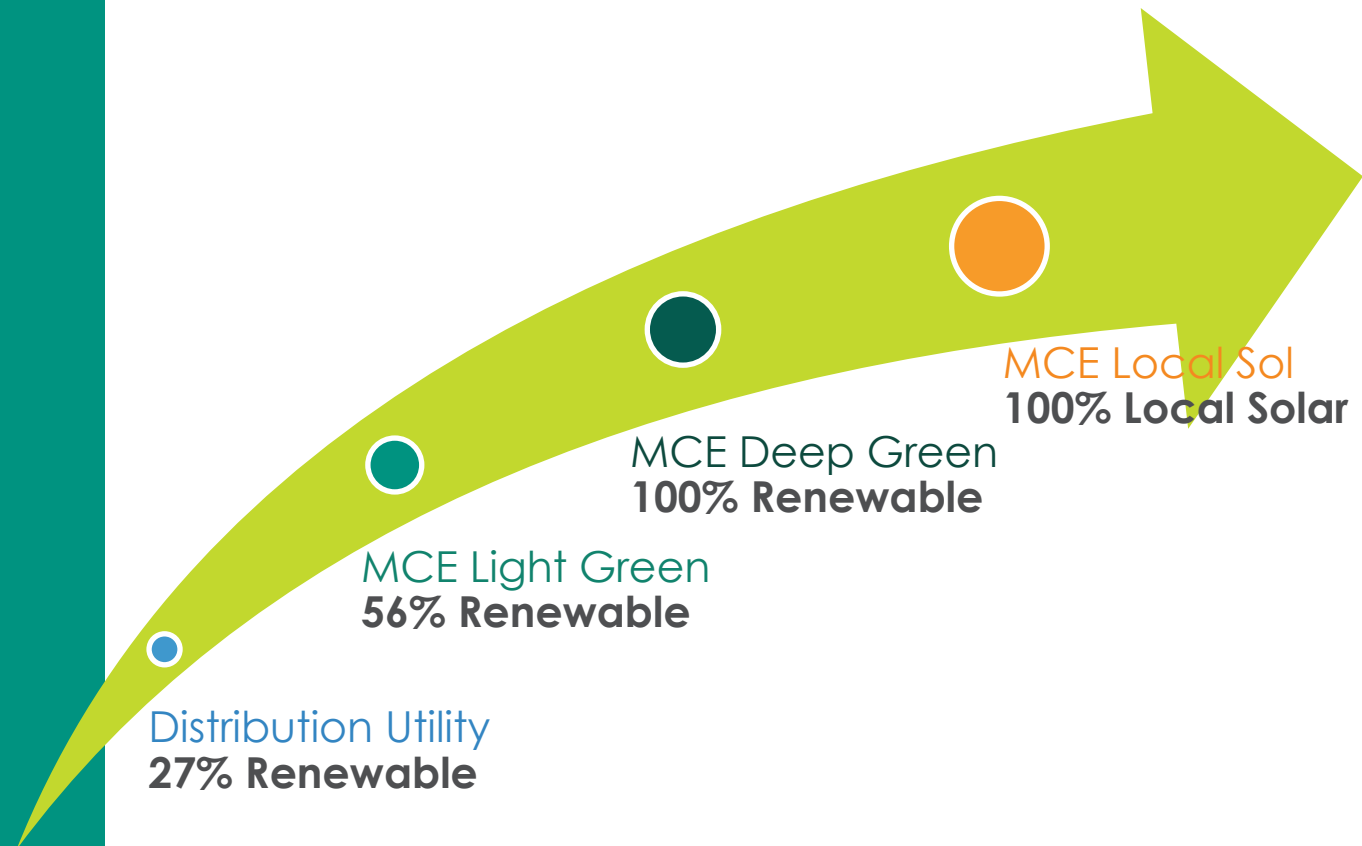
2015

regional expansion



170,500 customers served today

Today's Energy Choices



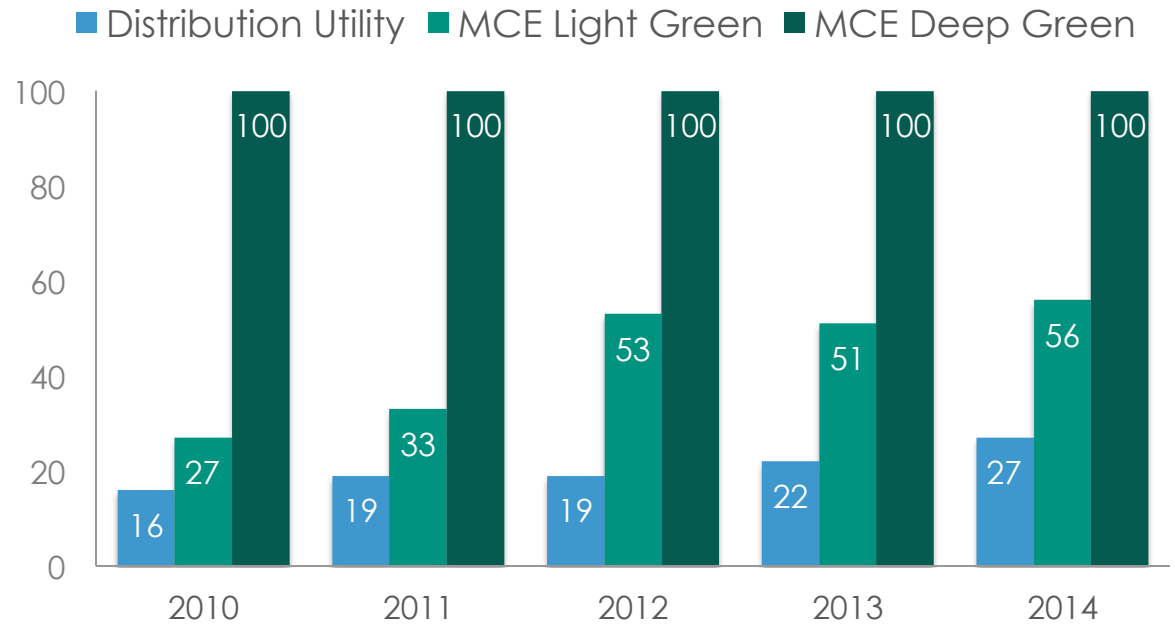
Distribution Utility
27% Renewable

MCE Light Green
56% Renewable

MCE Deep Green
100% Renewable

MCE Local Sol
100% Local Solar

Growing Renewable Content



Light Green Power Content Goal for 2025:

80% renewable 95% carbon-free

\$725,000

in cash rebates

DISTRIBUTED TO

4,900+

energy efficiency program participants

2.5 Million kWh savings equivalent to:

7-fold

increase in savings in three years

Energy Efficiency Programs

15 Million

gallons of water saved



10 renewable project sites

POWERING

1/2 of the homes we serve per year

\$516 Million committed

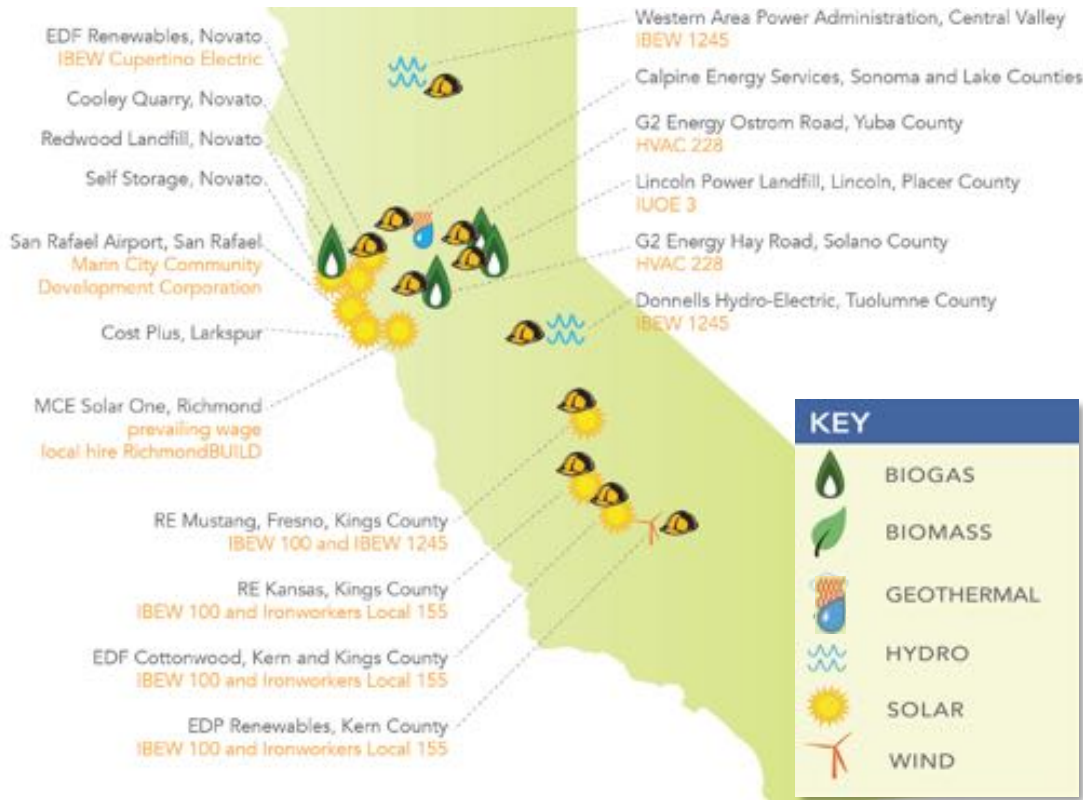
Regional Impacts

New
Renewable
Projects



Our Power Sources

12⁺ suppliers 17 energy contracts



RECURRENT ENERGY



3Degrees



CALPINE



EDF renewable energy



g2energy



Shell Energy North America



2,400+ California jobs

Regional Impacts
New Jobs





MCE Solar One

Online 2016

Solar One Status

3,400 Homes

79 Construction Jobs **3** O&M Jobs

3/1/16 City Council final approval

1 Year Completion



Each community represented by Board Member

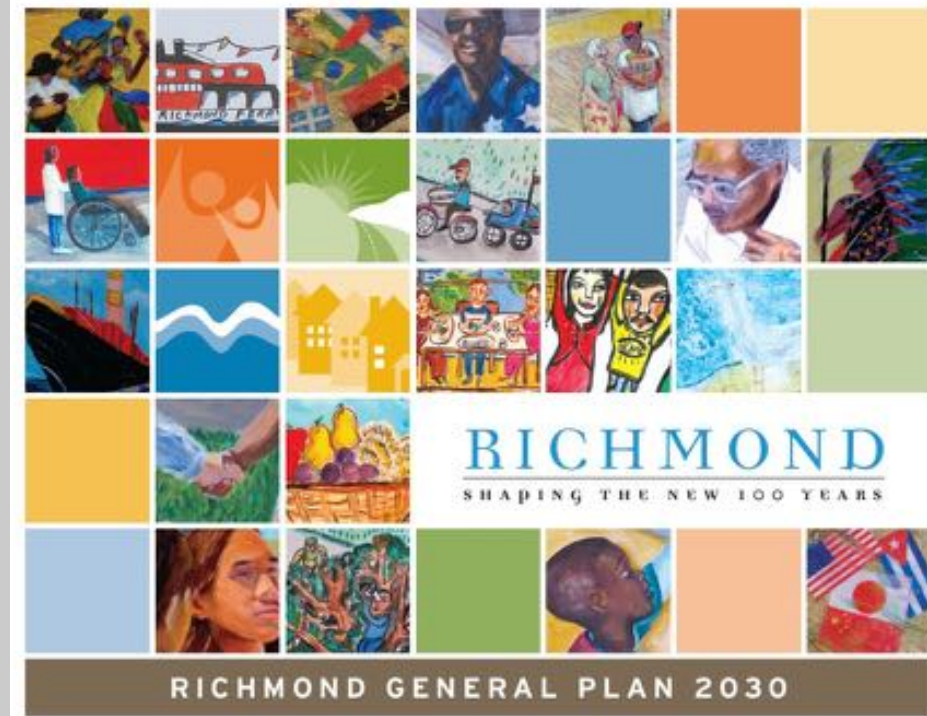
Elected officials


Monthly meetings

Local Governance

2012

Collaborate with neighboring jurisdictions on CCA



A large audience is seated in a conference room, facing a stage. A projector screen on the stage displays a landscape image with a logo in the top left corner. A person is standing at a podium on the right side of the stage. The room has dark walls and recessed ceiling lights.

Q.

There are too many unknowns. How can we guarantee local projects?

A.

MCE does not have a bond rating. Richmond cannot commit general fund dollars.

A.

But there's a **Feed-in Tariff** program, and a **local Board...**



“What is the risk of doing nothing?”



Ellen Gailing Photography, 2010





Ruben Pedrosa with his youngest son Nicolas
Richmond resident and 2013 RichmondBUILD graduate



MCE supports job training in Richmond.

As a public, not-for-profit electricity provider offering clean energy service in Richmond, MCE invests in local jobs, projects and programs.

MCE has partnered with RichmondBUILD to fund job training and workforce development programs that strengthen our community.



Timber Marshall, Owner
Catahoula Coffee Co., Richmond



100% clean energy? It's your choice.

Catahoula Coffee Company chose to “opt up” to MCE’s Deep Green 100% clean energy, because we care about quality—our beans, our brew, and the air we all breathe.

Anyone in Richmond can choose from MCE’s two clean energy options. Look for MCE mailers to learn more.



3 generations of Richmond residents:
Doris Robinson (center), Executive Director of Urban Tith
with mother Kathy and daughter Inna



Renewable energy means rate stability for Richmond.

MCE's renewable energy means cleaner air for our family. Their reliable rates mean easier budgeting.

As a public agency, MCE's Board of Directors represents the city of Richmond.

Look for MCE mailers to learn more.



Damon D. King, Publisher
Redeemed World Magazine



It's Richmond's time for a clean energy choice.

Richmond is the City of Pride and Purpose—a place of innovation.

MCE is helping our forward momentum by investing in our future, and providing new choices for cleaner energy. Now is the time to invest in Richmond's growth.

Look for MCE mailers to learn about your clean energy options.



Ben Choi, MCE Account Manager
and Richmond resident



New clean power options are available in Richmond.

Richmond is building a cleaner, healthier future and MCE is helping to make it possible. MCE's 50-100% renewable electricity comes from sources like solar, wind, and bioenergy.

Look for MCE mailers to learn more.

MCE 2015 Outcomes



3 Energy Options

16,979 tons

85% Enrollment

\$2.4 million

#1 Deep Green Community



Health in All Policies Report

City of Richmond, California
www.richmondhealth.org

THE GOAL OF HiAP
IS TO ADDRESS
INEQUITIES AT THE
SYSTEMS, POLICY
AND STRUCTURAL
LEVELS TO
ELIMINATE THE
RESULTING HEALTH
DISPARITIES.



www.richmondhealth.org
2015



RichmondBUILD



RichmondBUILD

What was carpentry...



...includes green building.



The streetlight model.



Project Outcomes



\$40k MCE Training

9,000 Lights

5 Local jobs

\$600k Savings

\$6 Million in Financing

RICHMOND



Job creation....



EPA Brownfield Remediation Grant

Solar One Training







Chevron





Modernization

A high-angle photograph of a large indoor arena, likely a school gymnasium or community center, filled with people. The people are seated on the floor in a circular or semi-circular arrangement, facing towards the center. They appear to be attending a public meeting, town hall, or community event. The arena has a wooden floor and red bleachers visible on the right side. The lighting is bright, and the overall atmosphere is one of a large public gathering.

Public Safety.
Jobs.
Environment.



Environmental Justice



Building Trades



**Alternative 11 – No
increase in GHG emissions**

\$90 Million ECIA

\$35 Million - Promise Scholarship

\$30 Million - Community GHG reductions

\$15 Million - Job training & Comm Services

\$10 Million - 60-acres for Solar One

Lessons Learned

- **CCAs make community power projects possible.**
- **Every community has its assets. Be creative and leverage them.**
- **Power your local labor. Require it.**
- **Maximize the utility of all land. Even brownfields near a refinery.**

Work to do...

- **Begin Solar One construction in March 2016**
- **Reduce California Investor-Owned utility fees on CCA**
- **Expand partnerships with labor for more local opportunities**
- **Identify more local projects**



Thank You!

www.mceCleanEnergy.org
www.ci.richmond.ca.us

