

Electrification in Homes and Apartment Buildings:

Presentation for HCD

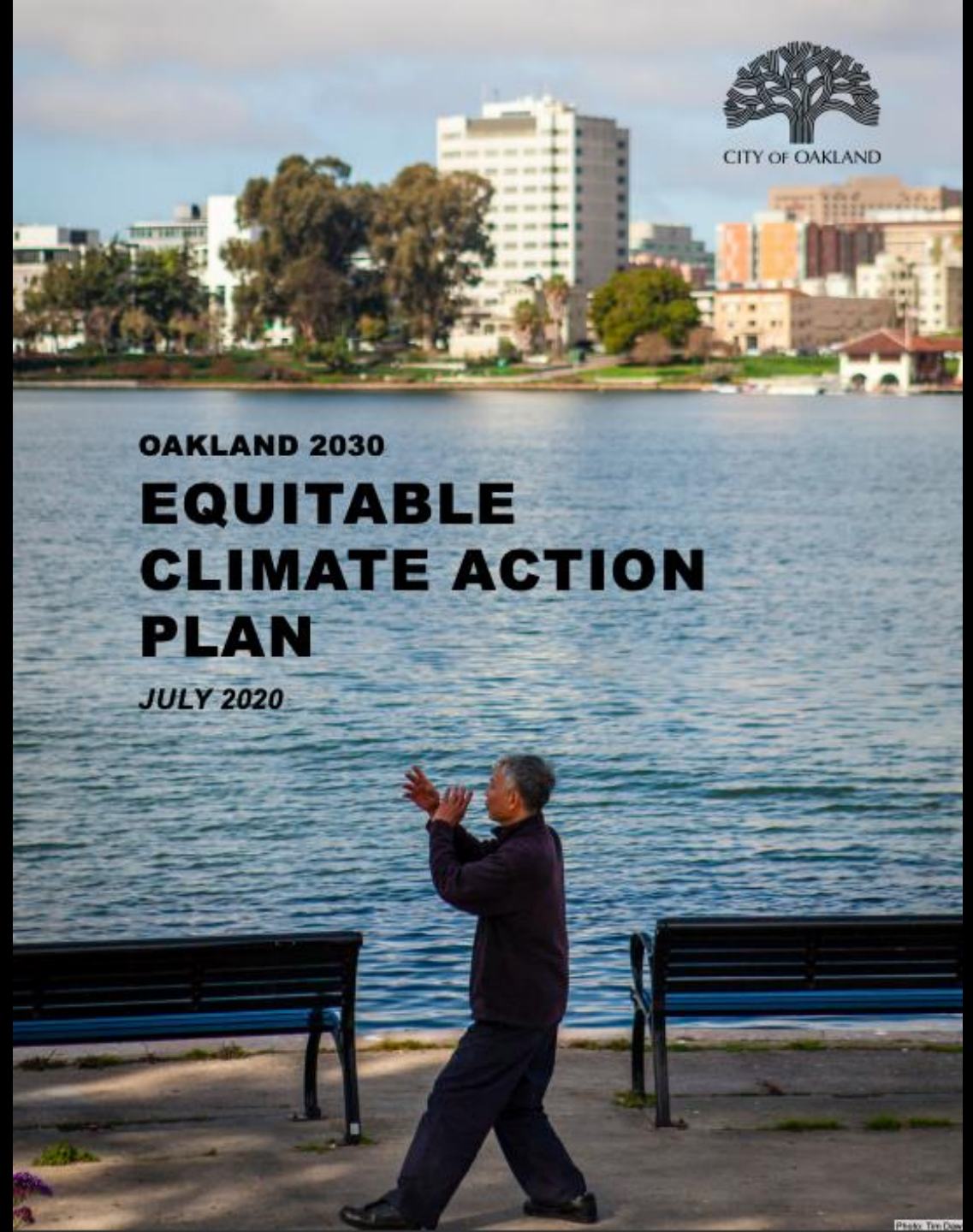
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OAKLAND 2030

EQUITABLE CLIMATE ACTION PLAN

JULY 2020

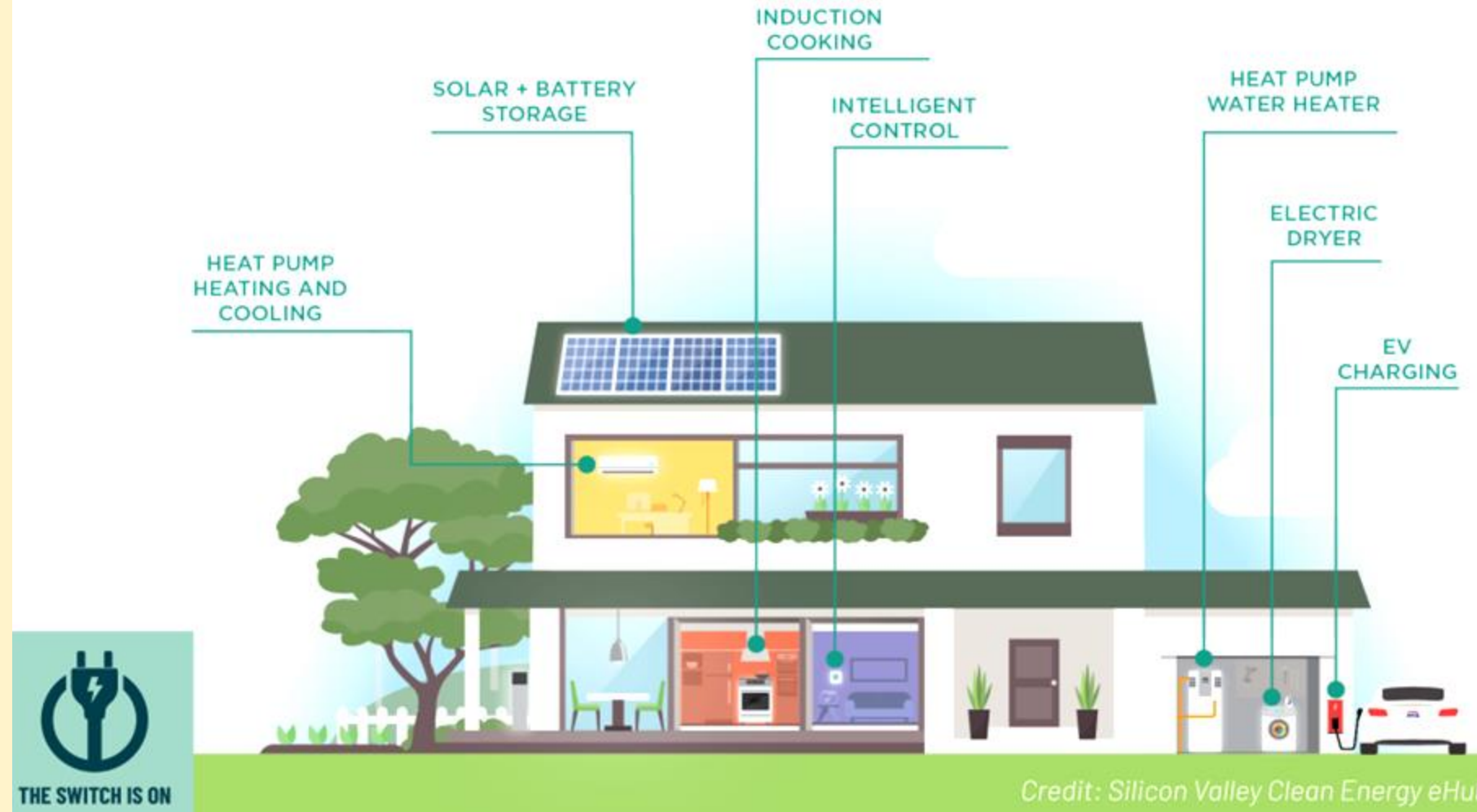


Why Building Electrification?



What is *holistic* electrification?

- Gas appliances replaced with 100% electric &
- Energy efficiency &
- Improved air quality and comfort &
- Lower environmental health risks &
- Affordable & reliable energy



Examples of All-Electric Appliances

Space Heating

Water Heating

Cooking

Clothes Drying

Residential

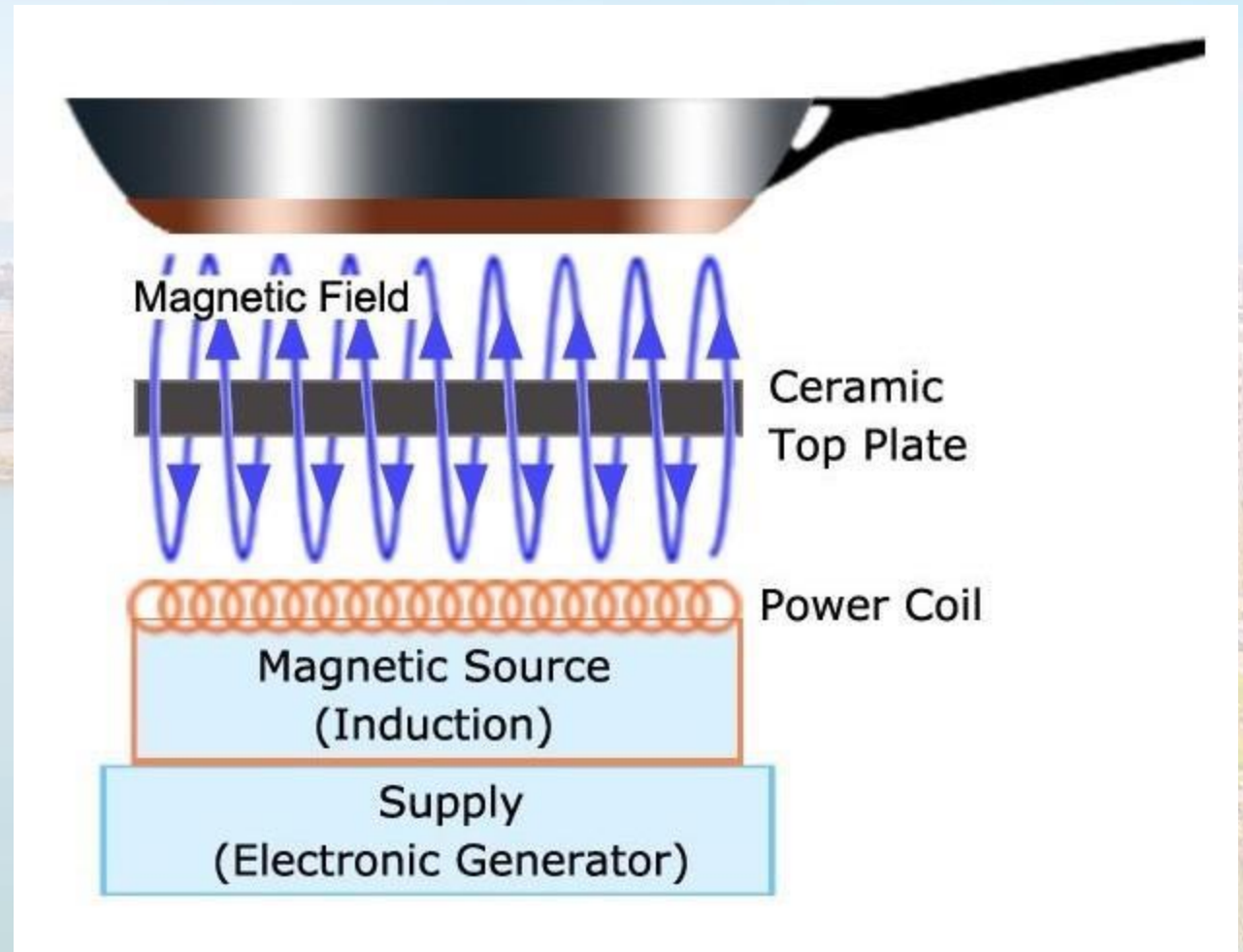


Commercial



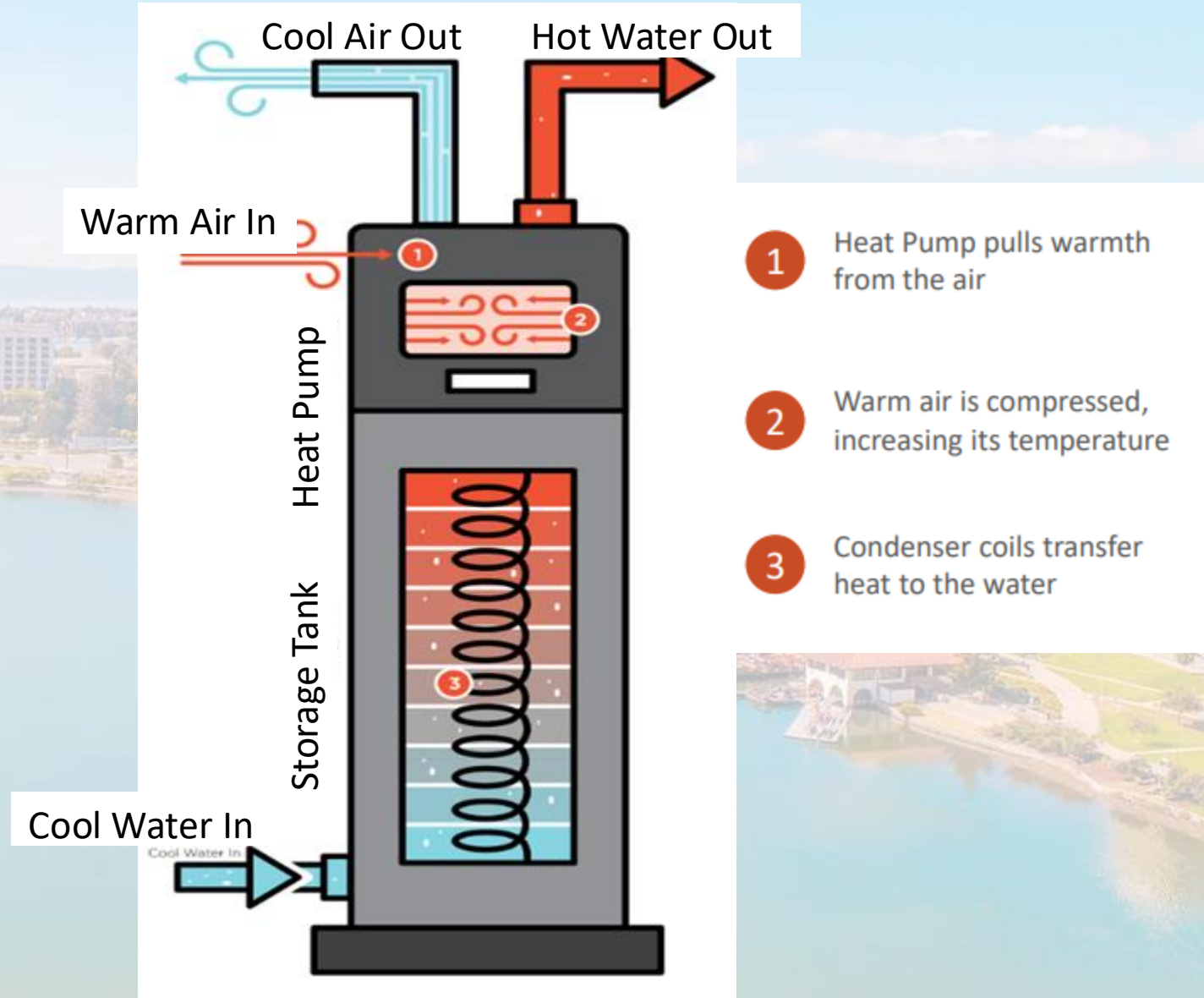
How does induction cooking work?

- **Electromagnetism** heats cookware directly
- Cookware must be able to carry a magnetic field (test with a magnet!)
- Ceramic top stays cool



What is a heat pump?

- **Moves heat** rather than creating it.
- For space conditioning (heating + cooling) as well as water heating
- Up to 3x more efficient than gas furnaces/water heaters

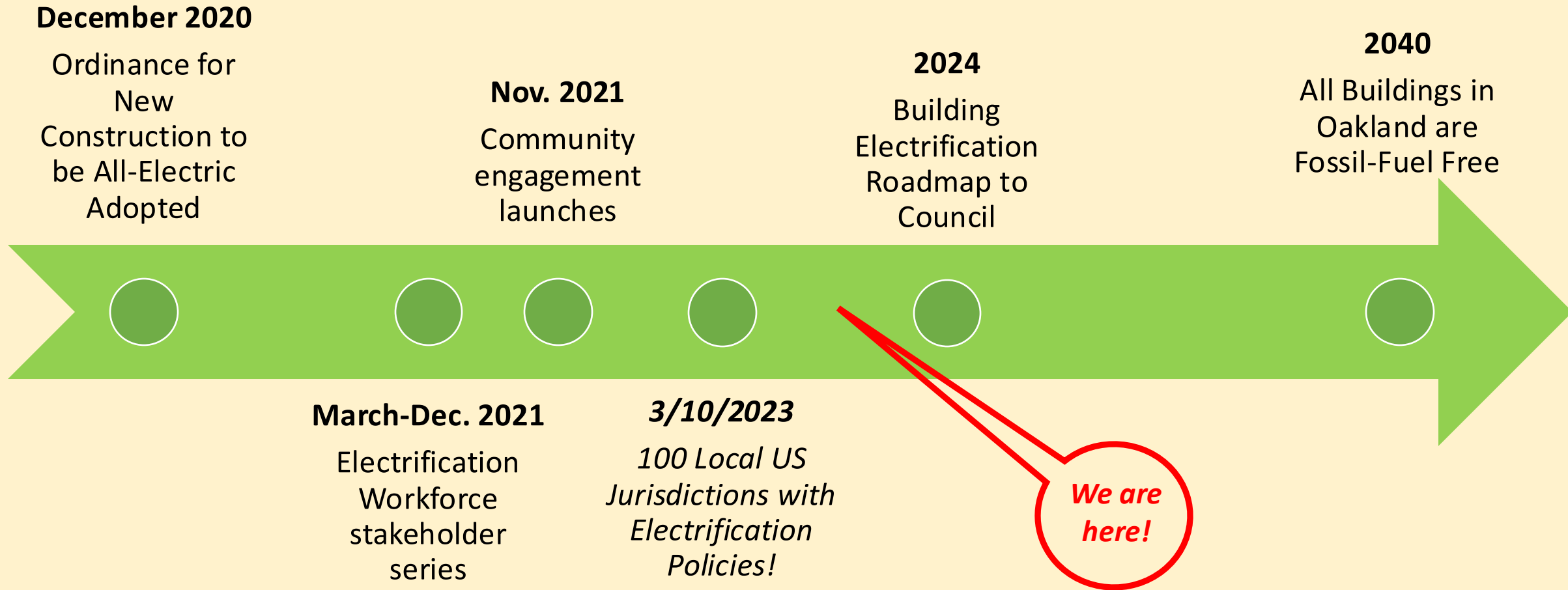


Major Opportunities

- Clean grid... & getting cleaner!
- Ava Clean Energy & BayREN supporting local efforts
- Rebates & Incentives
- Workforce development efforts
- Electrification + Resilience



Oakland Building Electrification Timeline



Learn more: www.oaklandca.gov/projects/electrify

The Home Electrification Process

Understand your home

- Self assess your home OR
- Free consultation with [Home Energy Score](#) or [Green House Call](#) (Rising Sun Center for Opportunity)
- Talk with your landlord about energy efficiency incentives available in Oakland
- Explore SIO & Ava websites

Plan your journey

- Consider priorities & budget with [Electrify Everything](#)
- Consult a Home Energy Advisor **(866) 878 – 6008**
- Oakland's [Residential Lending](#) program provides 0% loans & support for low-income homeowners
- Check your eligibility for CARE/FERA, Spectrum, etc.

Start electrifying

- Maximize energy efficiency through DIY projects & available programs
- Maximize rebates & tax credits with BayREN, California Energy Smart Home, and IRA
- Find a qualifying contractor: www.switchison.org

Incentives and Rebates



California Low Income Weatherization Program: www.csd.ca.gov/Pages/Low-Income-Weatherization-Program.aspx

Rising Sun Center for Opportunity: risingsunopp.org/programs/ghc/

Grid Alternatives: gridalternatives.org/what-we-do/energy-for-all

Ava Community Energy: ebce.org/clean-power-appliances/
- Induction cooktop loaner- ebce.org/induction-cooking/

Incentives and Rebates (cont.)



BayREN: <https://www.bayren.org/rebates-financing/single-family-homeowners>

California Energy-Smart Homes: <https://www.caenergysmarthomes.com/alterations/>

PG&E: <https://guide.pge.com/>

\$1,000's available for heat pumps, induction, electric dryers, insulation, & more! Stay up to date: incentives.switchison.org/. Track **Federal rebates & tax credits:** www.oaklandca.gov/topics/inflation-reduction-act-and-building-electrification

Questions?

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Ideas for Collaboration!

- RLS HEEP Pilot
- Renter & Homeowner workshops
- NOFO
- Events...

More info:

www.oaklandca.gov/projects/electrify

Thank you!

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