

# Workforce Perspectives in Decarb

Stakeholder Engagement Series: Part 3

August 10, 2021

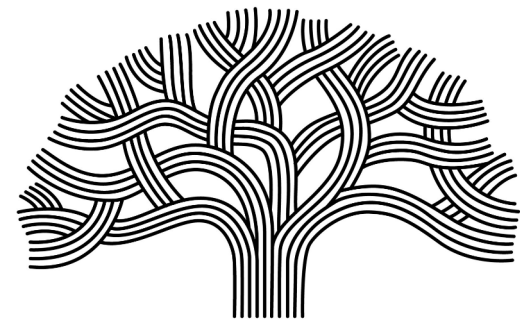




# Agenda

- 01 **Welcome and Introductions**
- 02 **Workers of Decarb Panel**
- 03 **Break**
- 04 **Recruiting for Decarb Panel**
- 05 **What to Expect Next**

# Stakeholder Engagement Series Planning Team



CITY OF OAKLAND

City of Oakland

Sustainability Program

Economic + Workforce  
Development Department

Department of Transportation



Greenlining  
Institute



Rising Sun



Common Spark  
Consulting

# Goals + Outcomes

01

## **COMMUNICATE TO COUNCIL + RESOURCE ALLOCATION**

To give City staff a better understanding of what's needed so City Staff can communicate it to Council, and so that when resources come available the City can support the Community appropriately according to the needs, and building on the resources, the Community identified.

02

## **NETWORKING TO SUPPORT COMMUNITY IDENTIFIED NEEDS**

To give community Stakeholders a platform to share with one another, their needs & resources, so that the community can be better connected (networked) around meeting the needs they are identifying, and those identified through EONI (East Oakland Neighborhood Initiative) and WOCAP (West Oakland Community Action Plan) related to green workforce development.

03

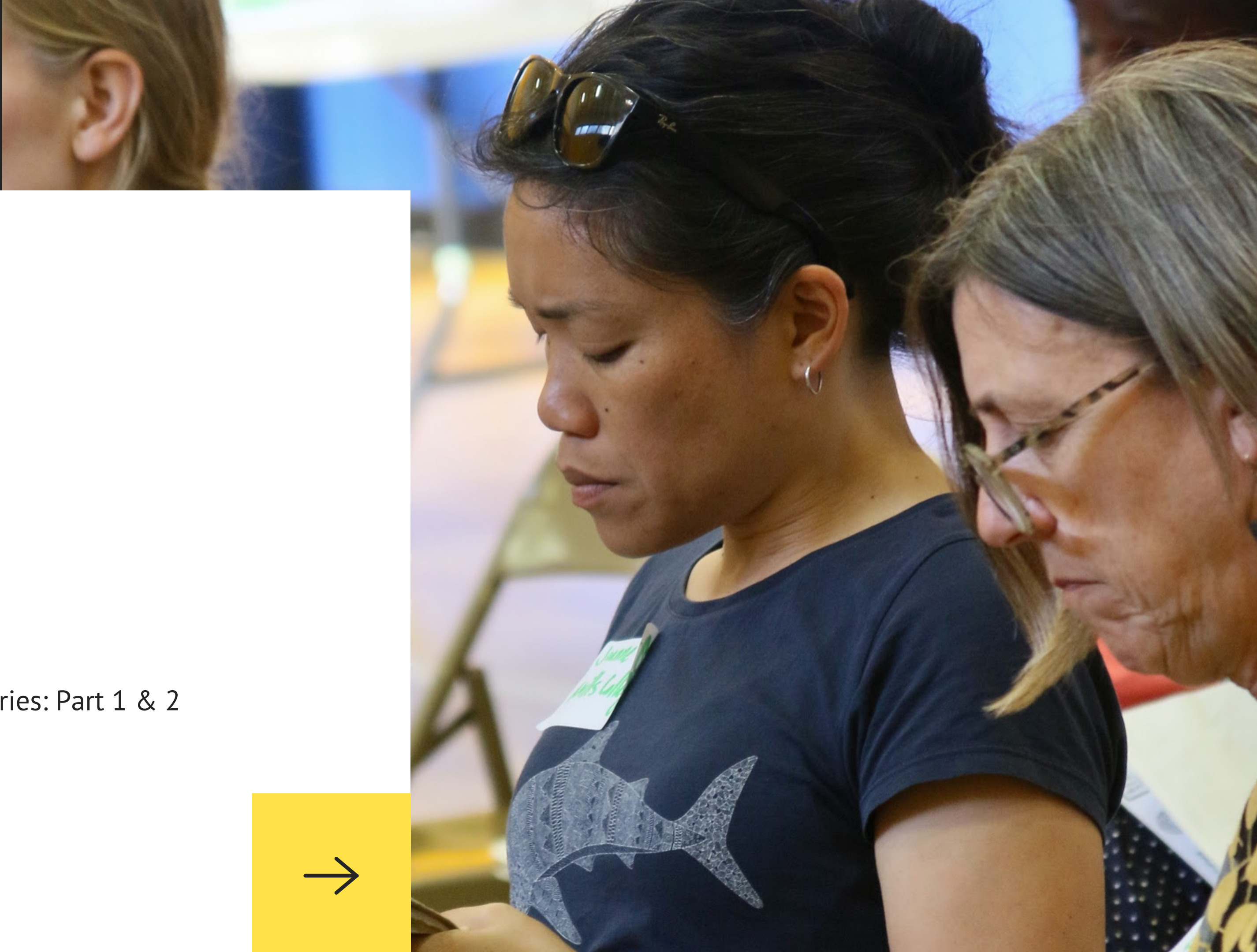
## **INFORMATION SHARING**

To share critical resources that validate and support electrification.

# Recap

Stakeholder Engagement Series: Part 1 & 2

March 23, 2021, June 2, 2021



# Highlights

## 70+ PARTICIPANTS IN BOTH SESSIONS

Training + vocational programs, contractors, labor organizations, public transit, shared and electric mobility companies, grassroots community organizations, goods movement, environmental and climate organizations, workforce development agencies, faith communities, and more

## PRESENTATIONS + DISCUSSION

- **Session 1:** Presentations from City staff + Rising Sun Center for Opportunity outlining context. Identified 8 core takeaway categories.
- **Session 2:** Presentations by BayREN, EBCE, and Cypress Mandela Training Center. Identified needs for future sessions



# Slido

We are using the Slido platform to crowd-source a short Q&A session for our panelists.

- 1 Log in on any device to [www.slido.com](http://www.slido.com)
- 2 Enter code: **#decarb**
- 3 Engage!

# Workers of Decarb Panel

A community-informed panel to discuss the challenges, skills, opportunities, and diversity in electrification and decarbonization from a workers' perspective



**Mick Penn**

MPA, CCA, Northern California  
Regional Community Relations  
Liaison at Swinerton

Board of Directors at Cypress  
Mandela Training Center



**Alex Lantsberg**

MCP, Research & Advocacy  
Director at San Francisco  
Electrical Construction Industry



**Keith O'Hara**

President and CEO of ECO  
Performance Builders



**Paul Francis**

CEO and Co-Founder at KIGT



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# Keith O'Hara

- Eco Performance Builders
- Home Performance all electric retrofits
- General, HVAC, and Insulation contractor
- Design/Build/Commission



ECO PERFORMANCE  
BUILDERS

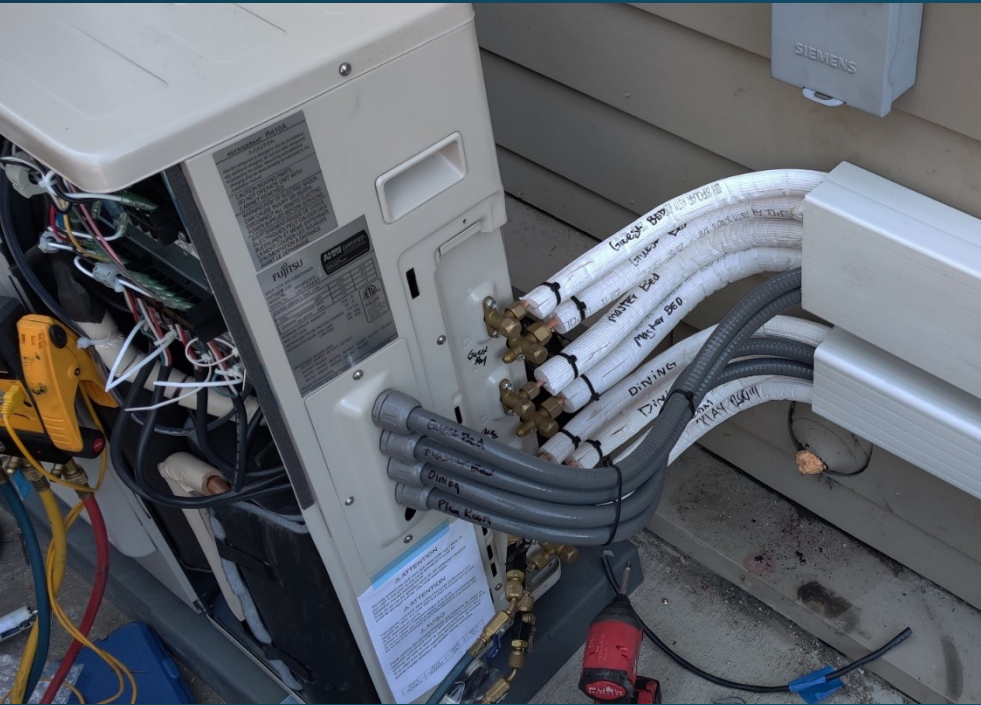
# Heat Pumps



# The Work



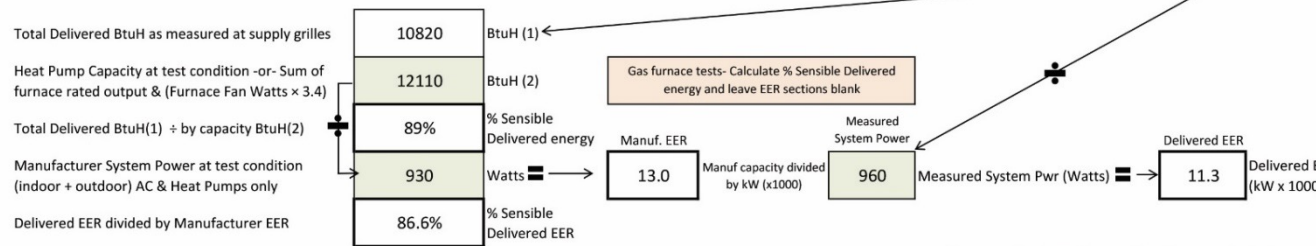
# The Work



# Commissioning HVAC Systems



Supply Airflows (use only Energy Conservatory FlowBlaster)	Temp (F)	CFM	Flow Correction	Constant	Delta T	Calculation ↓	Btu/Hr
Supply Grille #1 Room:	51.5	143.0	1.01	1.08	20.5	Delta SG1 -Weighted Return Temp	3208
Supply Grille #2 Room:	50.5	134.0	1.01	1.08	21.5	Delta SG2 -Weighted Return Temp	3153
Supply Grille #3 Room:	53.0	96.0	1.01	1.08	19.0	Delta SG3 -Weighted Return Temp	1992
Supply Grille #4 Room:	52.0	113.0	1.01	1.08	20.0	Delta SG4 -Weighted Return Temp	2468
Supply Grille #5 Room:				1.08		Delta SG5 -Weighted Return Temp	
Supply Grille #6 Room:				1.08		Delta SG6 -Weighted Return Temp	
Supply Grille #7 Room:				1.08		Delta SG7 -Weighted Return Temp	
Supply Airflow (continued from page 1)	Temp (F)	CFM	Flow Correction				
Supply Grille #8 Room:				1.08		Delta SG8 -Weighted Return Temp	
Supply Grille #9 Room:				1.08		Delta SG9 -Weighted Return Temp	
Supply Grille #10 Room:				1.08		Delta SG10 -Weighted Return Temp	
Supply Grille #11 Room:				1.08		Delta SG11 -Weighted Return Temp	
Supply Grille #12 Room:				1.08		Delta SG12 -Weighted Return Temp	
<b>Totals</b>		<b>486.0</b>	<b>CFM Total (Indicated airflow)</b>				<b>10820</b>



Room temperature stratification testing at 3' AFF, center of all rooms				7) Measure all exhaust flows and mark type and whether con		
All temps after continuous minimum 15 minutes of system operation, system running, all doors open				Ventilation Location	CFM Flow	Supply or E
#1 Room:	71.0	(F)	Pascals across door	#1 Room: Up Bath	116	exh / conti
				#2 Room:		

# What will employees learn at EPB?



Home Performance is a **SCIENCE** that treats the home as a system.

High performance home retrofits involve advanced heat pump, ventilation, air barrier, insulation and water heating systems.

# What will employees learn at EPB?

Hands-on trade skills:

- High performance mechanical system installation and commissioning
- High performance duct system installation and commissioning
- Electrical
- Water heater installation and commissioning.
- Air Sealing
- Attic Insulation
- Ventilation





# Training



# Training



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**OLD AND UNEQUIPPED**

**GRID PROBLEMS**

# INFRASTRUCTURE EQUITY

**EQUITABLE FUNDING**





# OPPORTUNITY

**JOBS AND OWNERSHIP**



# GREEN JOBS



# WORKFORCE

# GREEN JOBS

KIGT



**MANUFACTURING**



# PAID TRAINING!

**TRAINING**



# EDUCATION

# STEM INTERNSHIPS



**TEAMWORK MAKES THE DREAM WORK**

# Q&A

Workers of Decarb Panel



# NorCal NECA

The Northern California Chapter of the National Electrical Contractors Association serves the Electrical Contracting Industry in Alameda, Calaveras, Mariposa, Merced, Napa, San Joaquin, Solano, Stanislaus and Tuolumne Counties.



**Jenny Fothergill**

Alameda County Business  
Developer, NorCAL NECA



**Greg Armstrong**

Executive Director, NorCal NECA

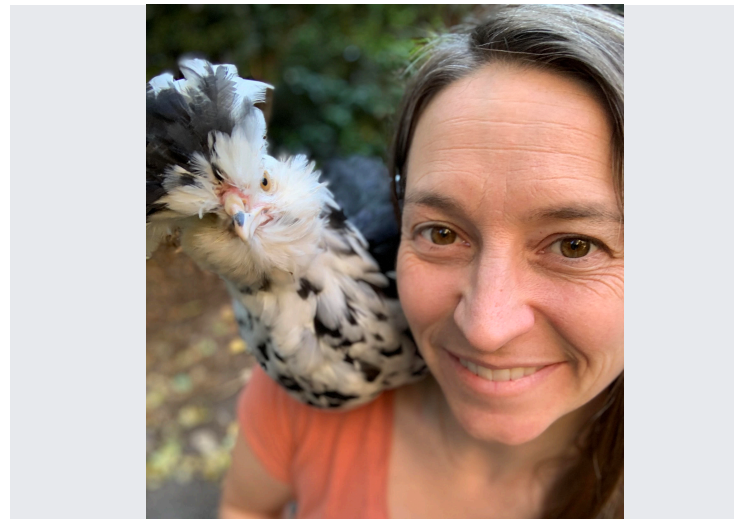
# Stretch Break

Please join us back in 3 minutes



# Recruiters for Decarb Panel

A community-informed panel to discuss the challenges, skills, opportunities, and diversity in electrification and decarbonization from a employers' perspective



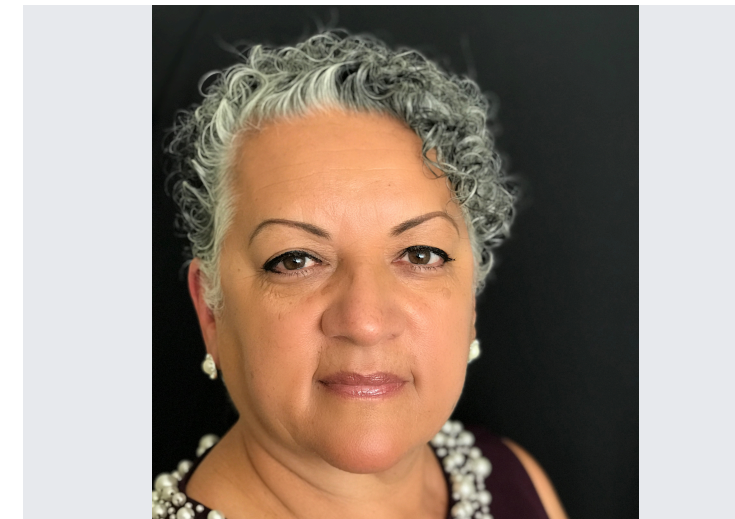
**Beckie Menten**

MS, Program Manager for Building Electrification and Energy Efficiency at EBCE



**Stephen Gribble**

Project Manager at Association at Energy Affordability (AEA)



**Julina Bollina**

Workforce Development Manager at Port of Oakland



**Tony Sciarra**

Workforce Development and Educational Programs at Tesla

AUGUST 2021

# Employers in Decarbonization



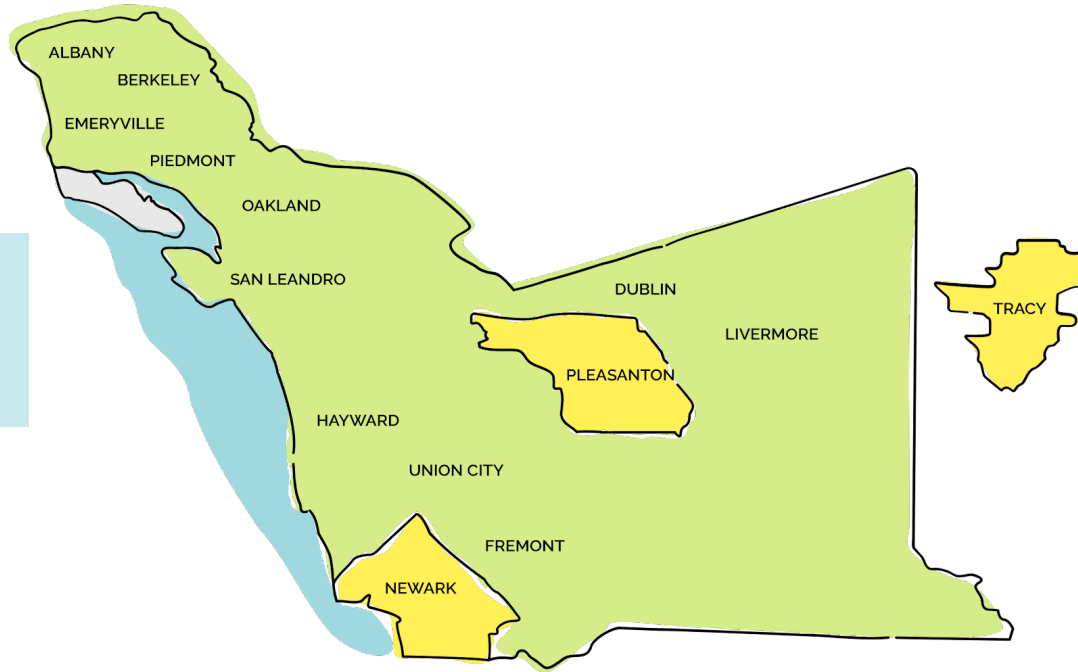


# East Bay Community Energy

630k  
Customers

\$8 Million  
Customer Bill  
Savings

59.9% RPS  
compliant



550 MW  
wind / solar  
150 MW  
battery  
storage

# Opportunity

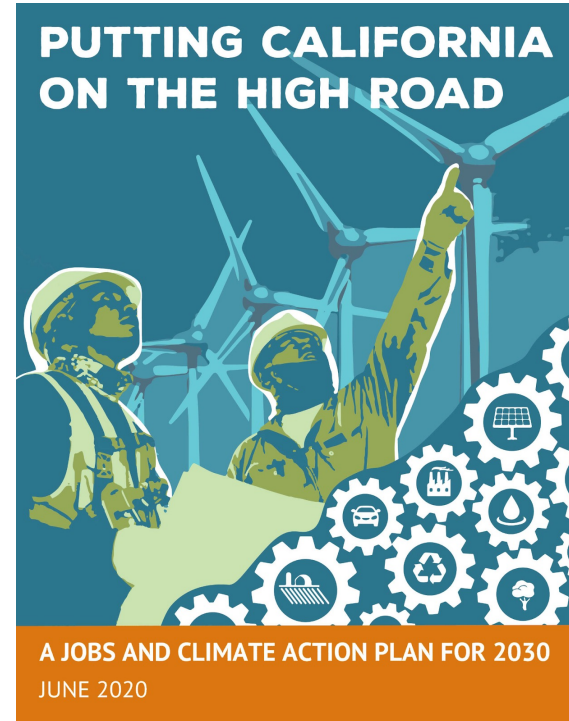
- 100% carbon free by 2050 (California)
- 56% reduction over 2005 levels by 2030; 83% reduction by 2050 (Oakland E-CAP)
- 100% carbon free electricity by 2030 (EBCE)
- Local Reach Code development
- Scale of investment upcoming
  - SB 1477: \$150M for three years
  - SGIP: \$166M per year
  - EE: \$625M SW budget
  - EVSE : Infrastructure bill, CalEViP

**\$72-150B Investment Required**



# Challenges / Lessons Learned

- Jobs in the green economy are multi-faceted
  - Construction, engineering, electricians
- Training only to niche “green” skill sets has proven ineffective in the past
- More engagement is needed from industry to inform desired skills
- “Just transition” programs have faced challenges in the past
- Special focus is needed for disadvantaged workers



# Thank You!



Questions? Give us a call:  
1-833-699-EBCE (3223)



@PoweredbyEBCE



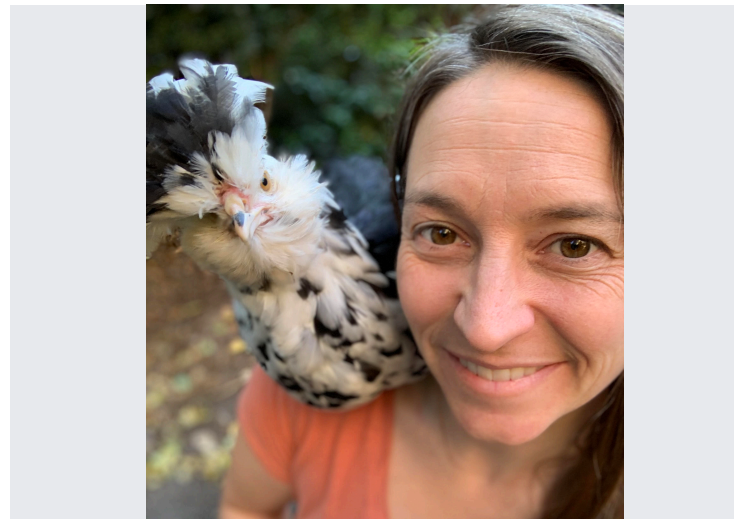
customer-support@ebce.org

Español  
[ebce.org/es](https://ebce.org/es)

中文  
[ebce.org/cn](https://ebce.org/cn)

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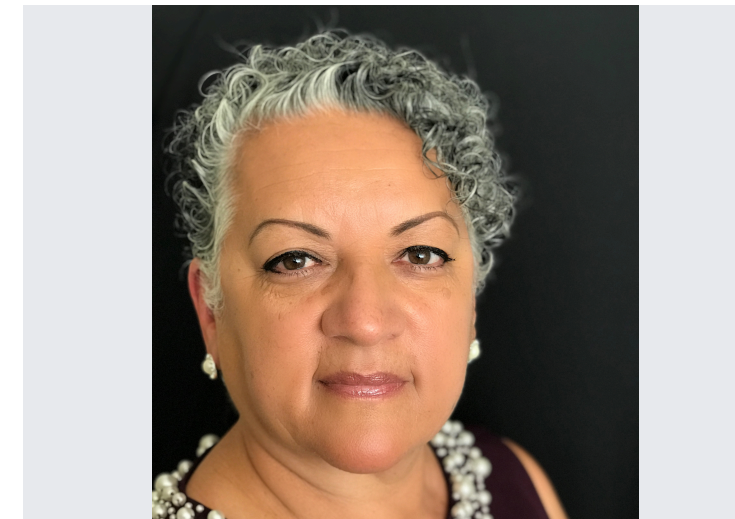
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# Oakland Just Transition Series



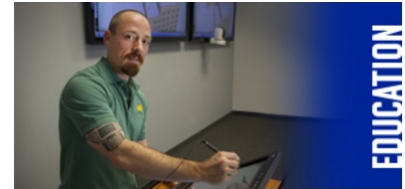
# ASSOCIATION FOR ENERGY AFFORDABILITY INC.

*Energy Efficiency is our Specialty, Affordable Housing is our Priority*

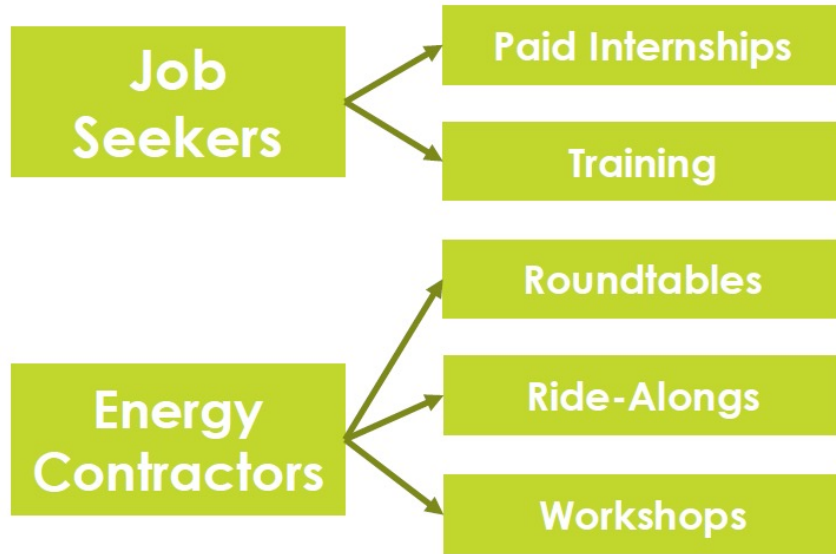
The Association for Energy Affordability, Inc. is dedicated to achieving energy efficiency in new and existing buildings in order to foster and maintain affordable and healthy housing and communities, especially those of low-income.

With locations in NY and CA, AEA representatives engage in a broad range of educational, technical and construction management activities and services to promote this mission and develop the industry that advances and sustains it.

- Energy Audits and Green Building Design for New Construction and Existing Buildings
- Energy Efficiency and Electrification Program Design and Implementation
- Provider of Weatherization Assistance Program Services
- National Weatherization Training Center



# MCE Workforce Education and Training Program (WE&T)



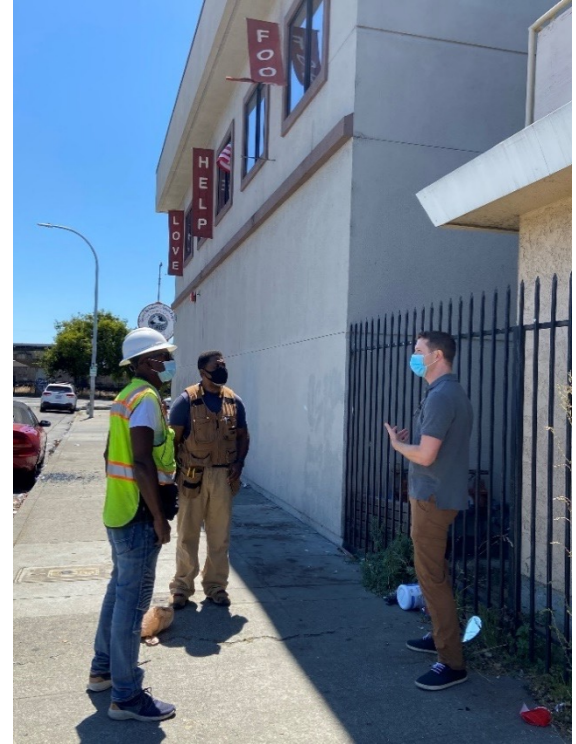
**Energy Efficiency  
and Renewable  
Energy Projects**



# MCE WE&T: Paid On the Job Training

## Paid Internships

- Paid on-the-job training
- 160 hours of program paid time with a new career opportunity and the goal of being hired full-time
- Help with preparing for a career in electrification or home performance
- Wrap-around services to help ensure success at



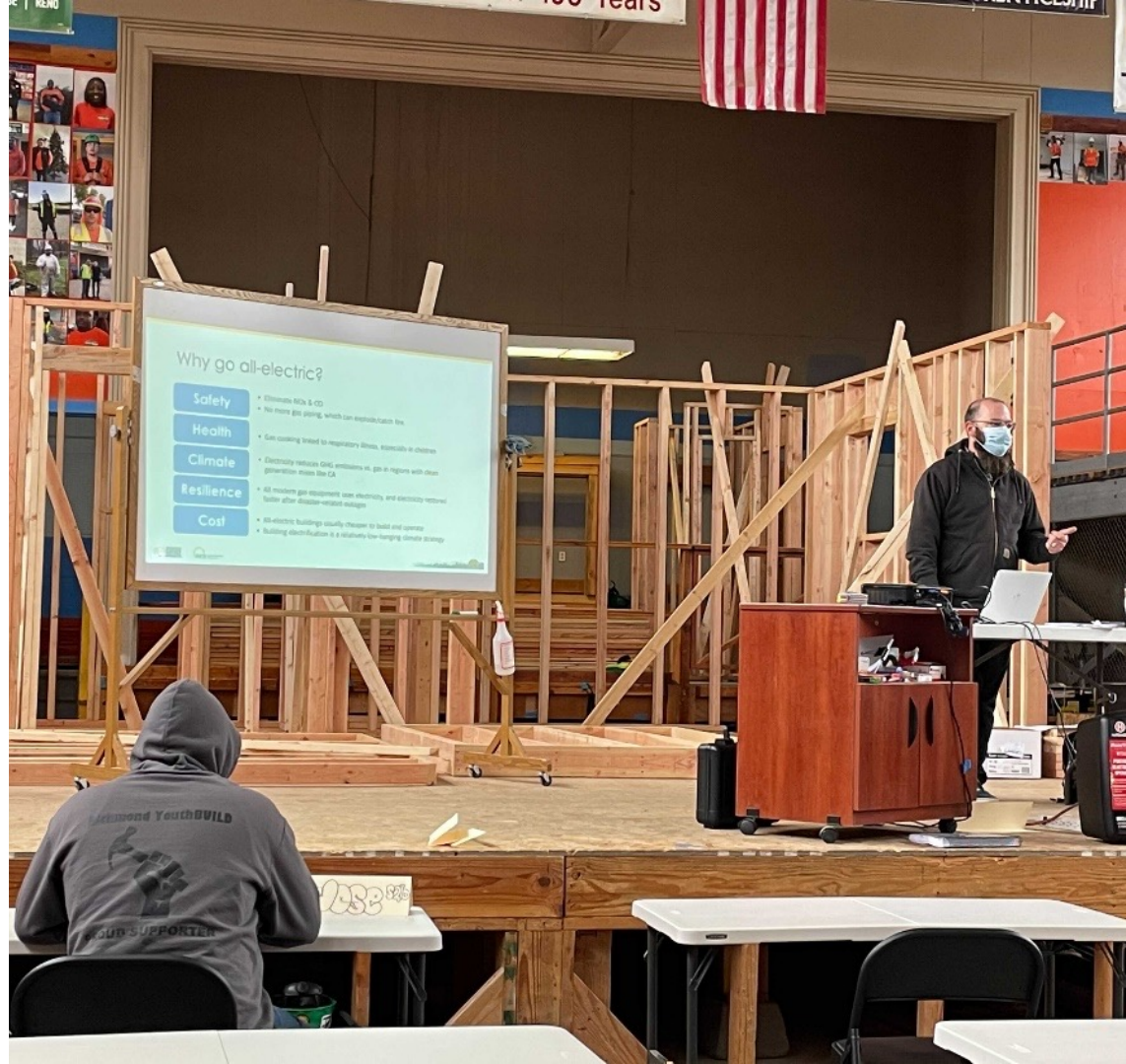
# MCE WE&T: Job Opportunities



# We Learned a Lot Developing the Program



And We've  
Learned a  
Lot Running  
it



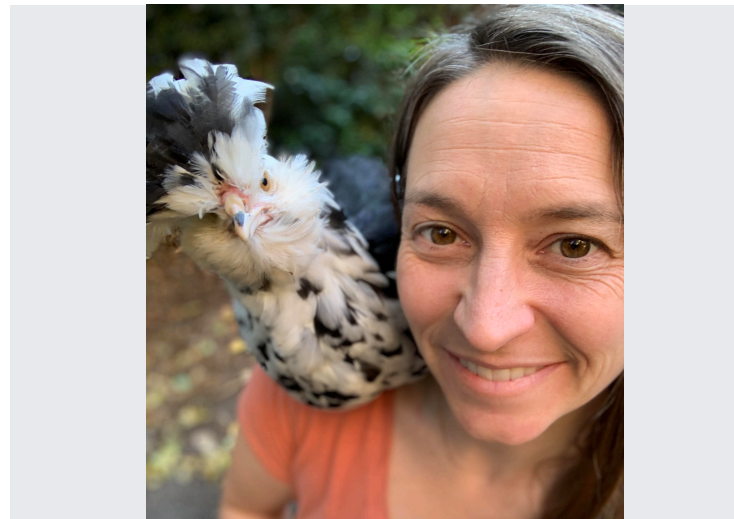
# Thank You

Stephen Gribble, Association for Energy Affordability  
[Sgribble@aea.us.org](mailto:Sgribble@aea.us.org)



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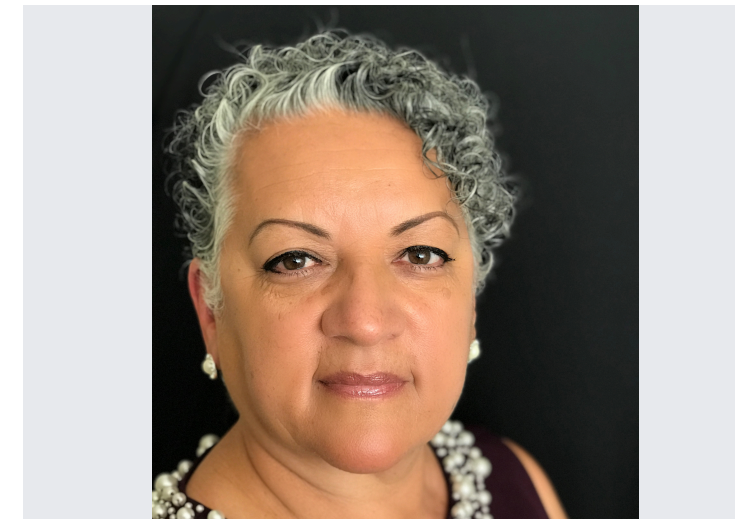
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**PORT OF OAKLAND**

# SOCIAL RESPONSIBILITY DIVISION

*Everyone's Port*

City of Oakland

Decarbonization Workforce Development Stakeholder Engagement Series

August 10, 2021





**PORT OF OAKLAND**

## Social Responsibility Division Mission

Deliver a Port that is an effective and committed corporate citizen and strong economic driver for the region by delivering maximum social and economic impact







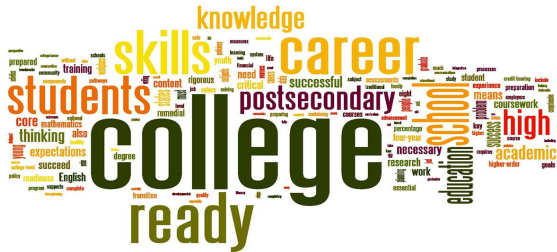
PORT OF OAKLAND

# Social Responsibility Division Goals

Local Employment



Job Readiness



Investment, Engagement & Benefits



Local Business Utilization



Fair Wages



Workforce Development



Nurture a Port-Wide Culture of Social Responsibility



## Social Responsibility Equity Initiatives

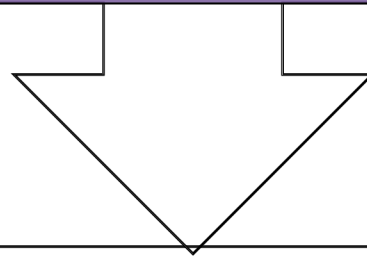
Public Engagement Plan

Maritime Aviation Project Labor Agreement (MAPLA)

Operations Jobs Policy

Local Business Utilization

First Source – Fair Chance Hiring Program



## Accountability & Broad-based Oversight

Community-wide Input & Accountability

Roles & Responsibilities Defined = Local Jobs  
Community Economic Development

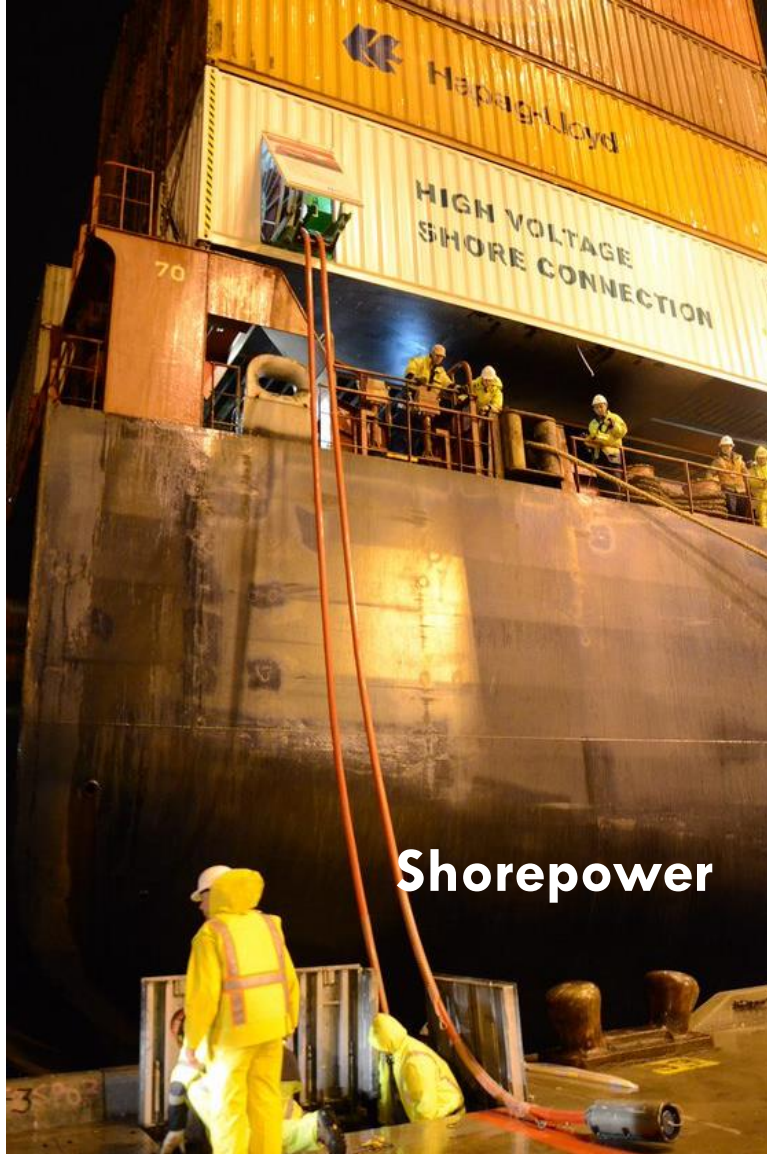
Community/Port Monitoring & Implementation Guidance

# Seaport Emission Sources

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# Projects Completed or Underway

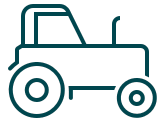


# Financial Aspects of Air Quality 2020 & Beyond Plan Pathway to Zero Emissions

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- Plan Implementation requires participation, coordination, collaboration, and financial commitment from all stakeholders

- Potential areas for equipment and infrastructure investments:



CHE  
386+



Port  
Vehicles  
228+



Drayage  
Trucks  
6,000+



Electric  
Charging  
Stations



Hydrogen  
Fueling  
Stations



Retrofit  
Vessels  
for Shore  
Power



Shore  
Power  
Outlets



Electric  
Infrastructure

- Financial costs are significant, will be borne by different entities, and depend on availability of funds
- Majority of funding for the Near-Term phase will be from Port unrestricted and restricted Cash

# Questions & Answers

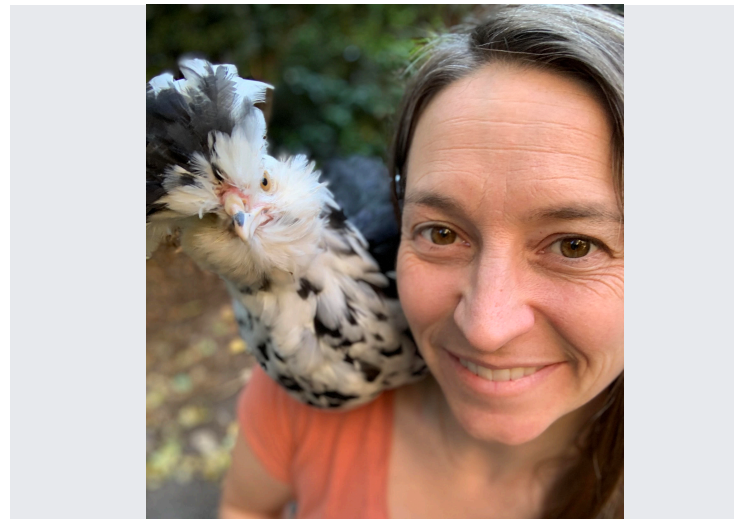


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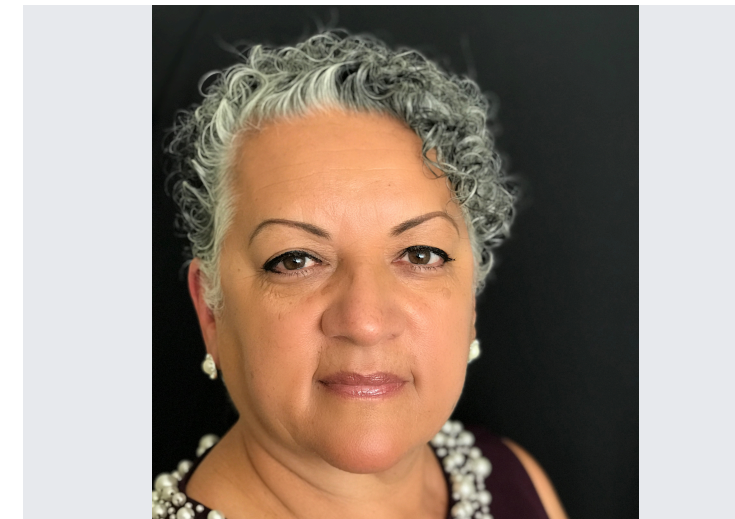
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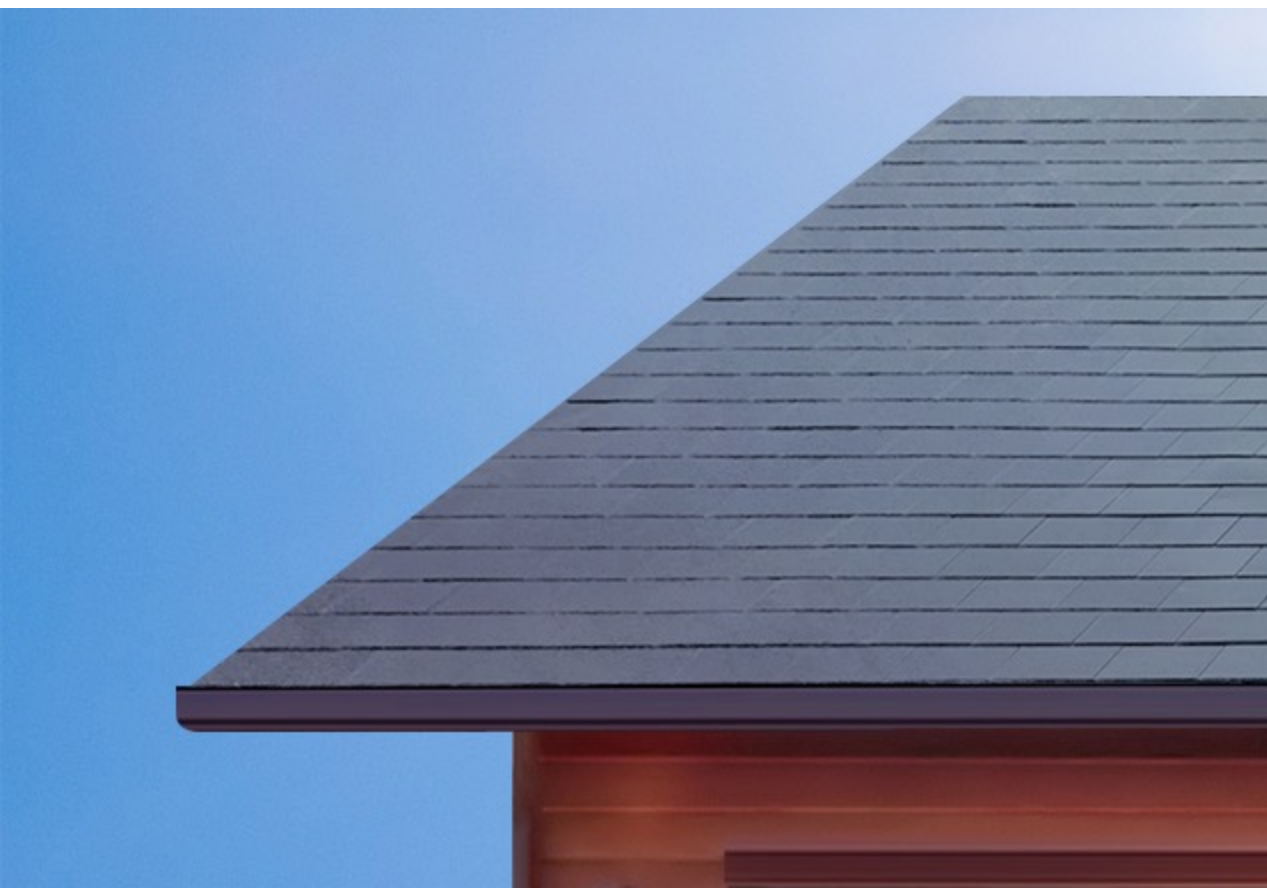
Workforce Development and Educational Programs at Tesla

TONY SCIARRA – WORKFORCE DEVELOPMENT

Accelerate the world's transition to **sustainable energy**



# THE FUTURE WE WANT



Generation



Storage



Transport

# Tesla START

Tesla START is a 12 -16 week intensive, technical training program, equipping future technicians with the skills and expertise to be successful technicians and grow their careers within Tesla. Upon graduation, successful students have the opportunity to become mid-level technicians in our rapidly expanding network of Tesla Service Centers and Factories.

# START WITH THE WHY AND DEVELOP THE WHO

## WHY

Problem 1: Training Backlog

Problem 2: Hiring Ramps

Problem 3: Trained Pipeline

## WHO (Candidate Profile)

- Grads from Auto Technology Programs
- Grads from other Technical Programs with exposure to Electro-Mechanical
- Veterans who were doing the role in the field
- Candidates who were in the industry and decided to go back to school
- Candidates with Industry Experience

# The Numbers



401

Total program graduates



8

Program Locations across North America



119

Service Locations with START graduates



110

Graduates placed in Tesla Service in 2020



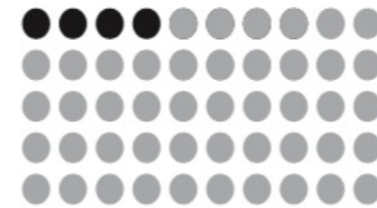
2

New START locations opened in Q2 & Q3

## DIVERSITY & INCLUSION

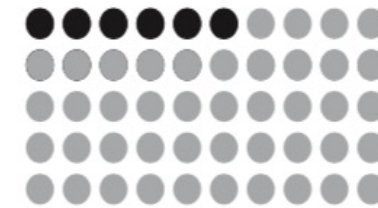
Women

7%



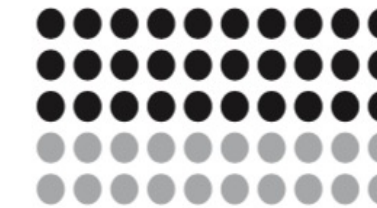
Veterans

12%

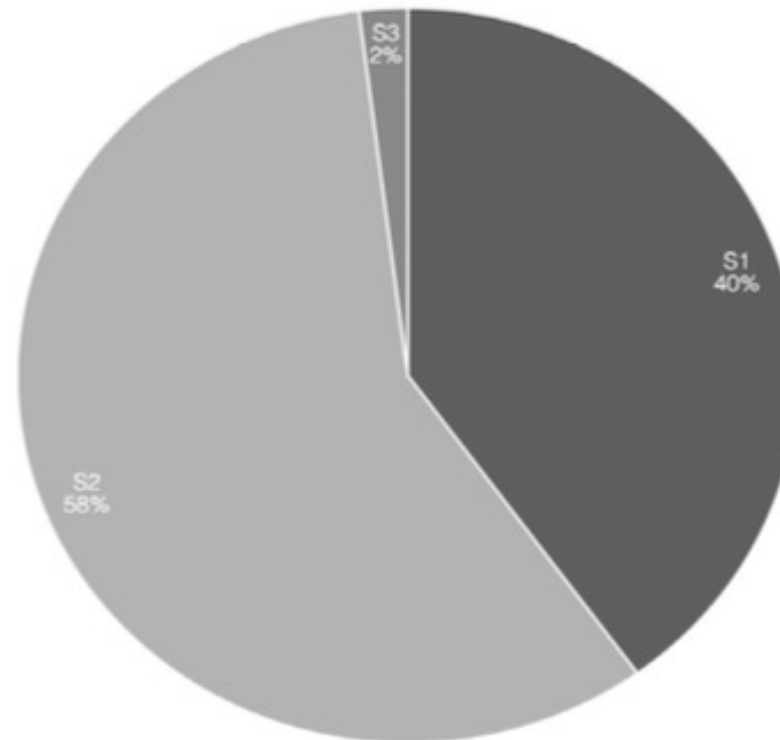


Underrepresented Communities

59%



## PLACED ROLE



92%

GRADUATION RATE

85%

PLACEMENT RATE

75%

ENTRY LEVEL TECHNICIANS

4

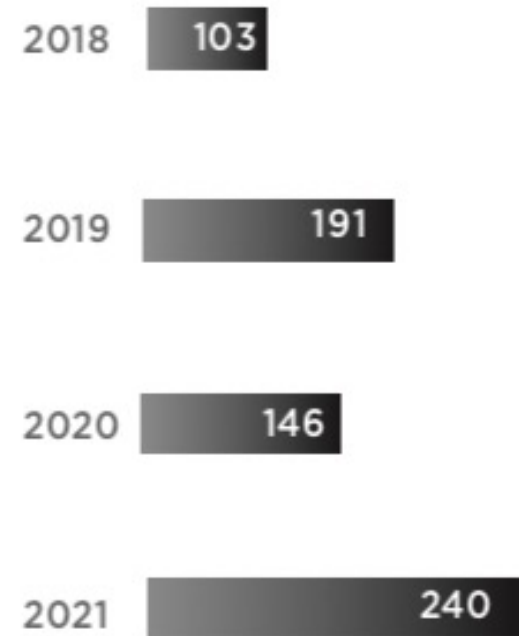
DEDICATED RECRUITMENT SPECIALIST

8

FULL-TIME INSTRUCTORS

# GROWTH

## PROGRAM GROWTH



Since 2018 we have had a steady year over year growth of graduates from the START program.

\*2020 growth greatly decreased due to COVID-19 restrictions

## NORTH AMERICA LOCATIONS



TESLA

# Q&A

Recruiters for Decarb Panel



# Recap of Today's Session

What we heard from panels, what we can accomplish together





# Next Steps

## **DRAFT INFORMATIONAL REPORT**

An informational report for City Council covering the knowledge gathered from these sessions.

## **ECONOMIC DEVELOPMENT STRATEGY**

**COMPREHENSIVE PLAN FOR ELECTRIFYING ALL EXISTING BUILDINGS**

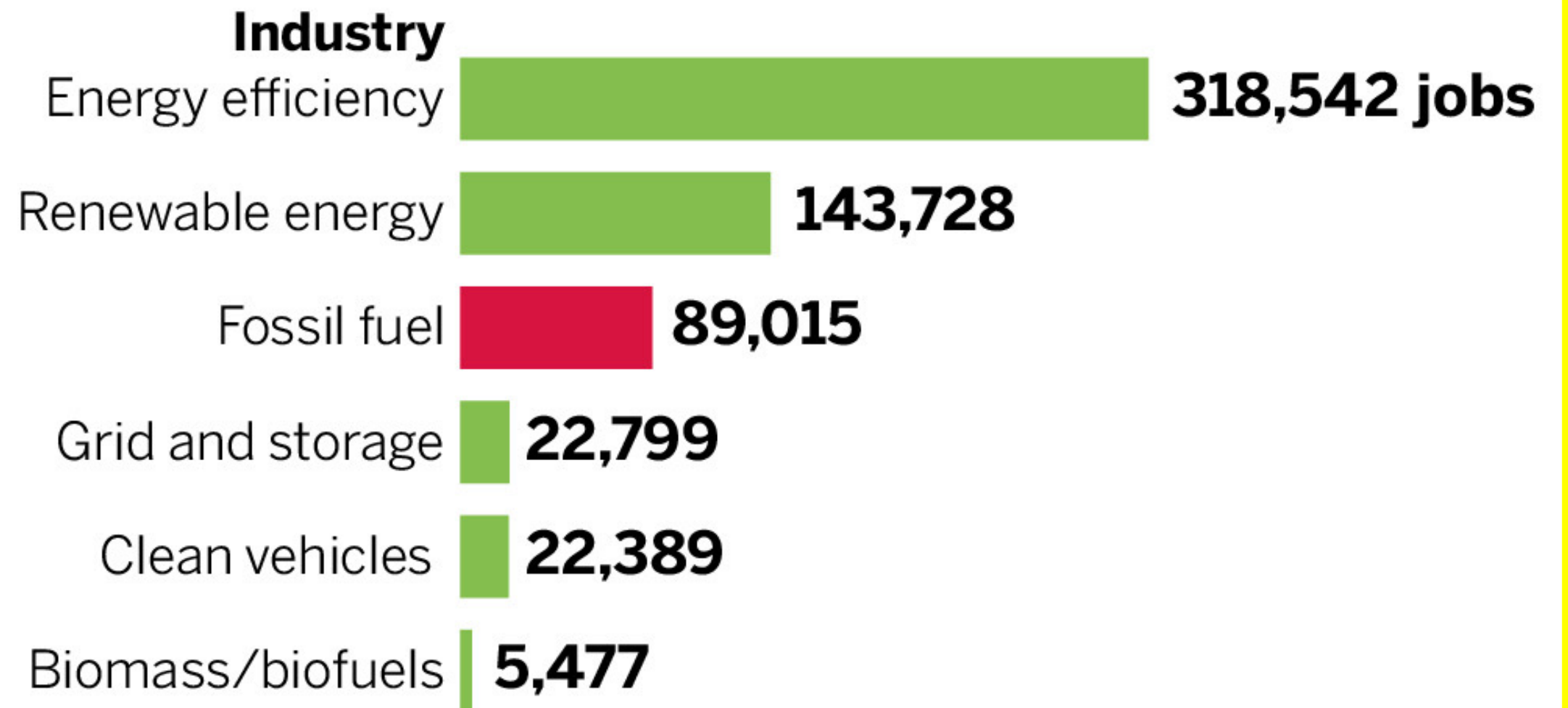


# Economic Development Strategy Update

1. City Goals: Reduce racial wealth disparities and increase household security
2. Oakland Equity and Climate Action Plan direction for Economic Development:
  - A. Equitable job creation – emerging sector
  - B. Investment in frontline communities
  - C. Evaluate Sequestration incubator
3. Decarbonization Business Development: opportunities for new and current Oakland firms; public contracting equity
4. Develop partnerships to bring State and Federal incentives for electrification and sequestration to Oakland

## OUTPACING FOSSIL FUEL JOBS

In California, more than 512,000 people work in clean energy industries — about five times more than the fossil fuel industry.



Source: e2.org

BAY AREA NEWS GROUP

Timeline: Draft 2021, Adopt for 2022-2025  
 Contact: Marisa Raya, [mraya@oaklandca.gov](mailto:mraya@oaklandca.gov)

# Thank you!

We appreciate your time, effort, perspective and sharing!

Thank you for being here!

