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Convening of the Lithium Valley Commission

Convocatoria de la Comisión de Lithium Valley

February 24, 2022



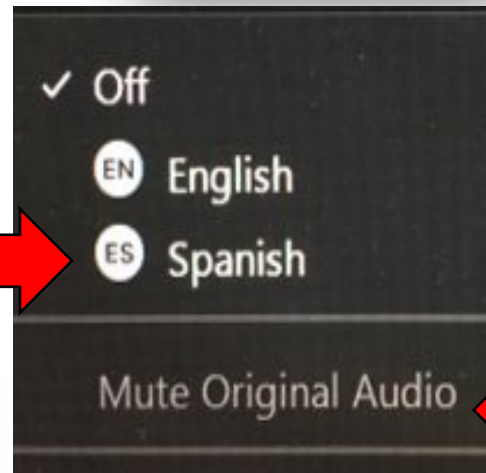
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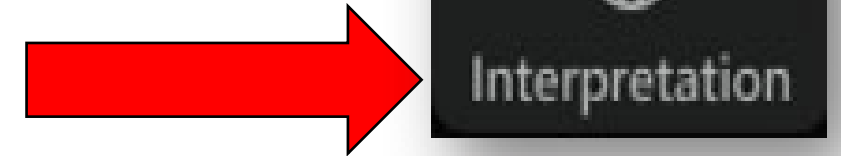
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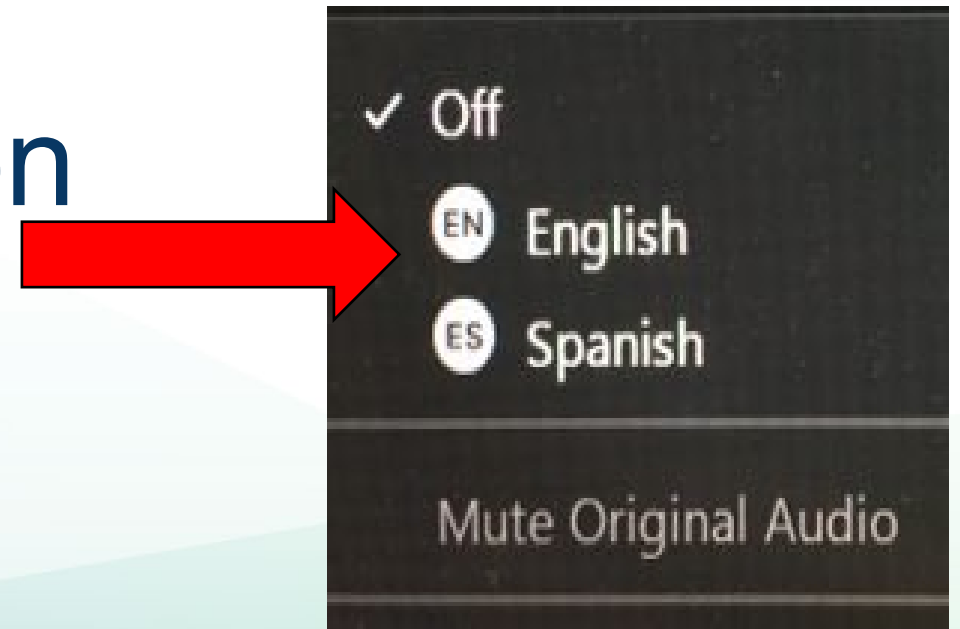


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Welcome and Roll Call / Bienvenida y paso de lista



Agenda / Agenda

- Welcome and Roll Call
 - Continuation of Items from February 16, 2022 Meeting
 - *Discussion and Possible Action on Lithium Valley Commission Proposed Recommendations Related to Governor Newsom's Proposed 2022-2023 Budget*
 - *Discussion and Possible Approval of Lithium Valley Commission Comment Letter on Community Economic Resilience Fund (CERF) Planning Phase Draft Guidelines*
 - Workforce Development Workshop
 - Presentations on Workforce Development and Jobs Associated with Geothermal Resources and Development, including Lithium Development
 - Q and A among Lithium Valley Commissioners
 - Panel Discussion - Creating Access to Economic & Job Opportunities
 - Q and A among Lithium Valley Commissioners
 - Planning for Upcoming Workshops
 - Continuation of Environmental Impacts Workshop
 - Economic Impacts Workshop
 - Schedule for Future Workshops
 - Administrative Items
 - Approval of January 27, 2022 and February 16, 2022 Meeting Action Minutes
 - Informational Items
 - Media and Legislative Updates
 - Lithium Valley Commissioner Updates
 - Public Comments
 - Adjourn
- Bienvenida y paso de lista
 - *Continuación de los puntos pendientes de la reunión del 16 de Febrero, 2022.*
 - *Discusión y Posibles Medidas sobre las Recomendaciones Propuestas por la Comisión de Lithium Valley al Presupuesto de 2022-2023 del Gobernador Newsom*
 - *Discusión y Posible Aprobación de la Carta de Comentarios de la Comisión de Lithium Valley sobre el Proyecto de Orientaciones para la Etapa de Planificación del Fondo Comunitario de Resiliencia Económica (CERF)*
 - Taller de desarrollo de la fuerza laboral
 - Presentaciones sobre el desarrollo de la fuerza laboral y los trabajos asociados con los recursos geotérmicos y el desarrollo, incluido el desarrollo del litio
 - Preguntas y respuestas entre los comisionados de Lithium Valley
 - Panel de discusión: Creando acceso a las oportunidades económicas y laborales
 - Preguntas y respuestas entre los comisionados de Lithium Valley
 - Planificación de próximos talleres
 - Continuación del Taller de impacto ambiental
 - Taller sobre impacto económico
 - Programación de futuros talleres
 - Temas administrativos
 - Aprobación del Acta de Acción de la Reunión del 27 de enero de 2022 y del 16 de febrero de 2022
 - Temas informativos
 - Actualización sobre medios y legislación
 - Actualización sobre el comisionado de Lithium Valley
 - Comentarios del público
 - Cierre de la sesión



Continuation of Items from January 16, 2022 Meeting / Continuación de los puntos pendientes de la reunión del 16 de febrero, 2022

- Discussion and Possible Action on Lithium Valley Commission Proposed Recommendations Related to Governor Newsom's Proposed 2022-2023 Budget
 - Lithium Valley Commission members will present for discussion proposed recommendations and actions to move forward during the current state budget and legislative processes.
- Discussion and Possible Approval of Lithium Valley Commission Comment Letter on Community Economic Resilience Fund (CERF) Planning Phase Draft Guidelines
- Discusión y Posibles Medidas sobre las Recomendaciones Propuestas por la Comisión de Lithium Valley al Presupuesto de 2022-2023 del Gobernador Newsom
 - Los miembros de la comisión de Lithium Valley presentarán para su discusión las recomendaciones y medidas propuestas para avanzar durante los actuales procesos presupuestarios y legislativos del Estado.
- Discusión y Posible Aprobación de la Carta de Comentarios de la Comisión de Lithium Valley sobre el Proyecto de Orientaciones para la Etapa de Planificación del Fondo Comunitario de Resiliencia Económica (CERF)



Discussion and Possible Action on Lithium Valley Commission Proposed Recommendations Related to Governor Newsom's Proposed 2022-2023 Budget / Discusión y Posibles Medidas sobre las Recomendaciones Propuestas por la Comisión de Lithium Valley al Presupuesto de 2022-2023 del Gobernador Newsom



Public Comment / Comentarios del público

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Discussion and Possible Approval of Lithium Valley Commission Comment Letter on Community Economic Resilience Fund (CERF) Planning Phase Draft Guidelines / Discusión y Posible Aprobación de la Carta de Comentarios de la Comisión de Lithium Valley sobre el Proyecto de Orientaciones para la Etapa de Planificación del Fondo Comunitario de Resiliencia Económica (CERF)



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Workforce Development Workshop / Taller de desarrollo de la fuerza laboral

- Presentations on Workforce Development and Jobs Associated with Geothermal Resources and Development, including Lithium Development
 - Q and A among Lithium Valley Commissioners
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 - Preguntas y respuestas entre los comisionados de Lithium Valley



Carol Zabin, Ph.D.

Director of Green Economy Program
Center for Labor Research and Education
UC Berkeley

Building the High Road in Lithium Valley:

How to ensure pathways for local workers into good jobs in lithium extraction and beyond

Presentation to the Lithium Valley Commission

**February 24, 2022
UC Berkeley Labor Center**

Our goal today:

Outline a menu of strategies to ensure access to high-road jobs in Lithium Valley for local workers

What do we mean by “high-road jobs”?

Job quality:

- Family-supporting wages and benefits
- High standards for health and safety
- Long-term career pathways
- Worker protections including the right to join a union

Job access:

- Hiring of local workers
- Training to support placement and advancement

A win-win approach for employers and community

What is the opportunity for LV?

A high-road battery ecosystem

- Raw material production and geothermal energy
- Material refinement and processing
- Battery material manufacturing and cell fabrication
- Battery pack and end-use product manufacturing
- Battery end-of-life and recycling
- Battery applications: EVs and beyond

WE ARE HERE

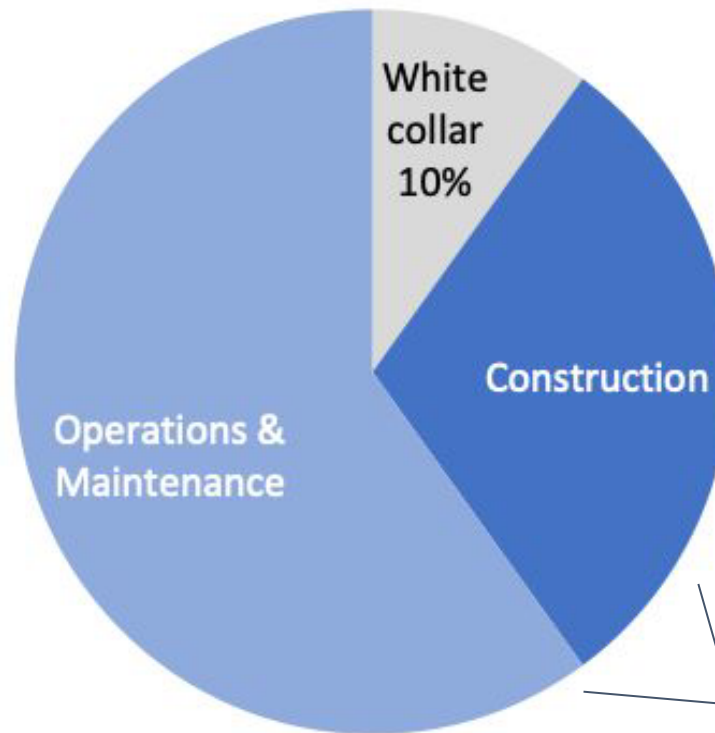


A high-road framework for job quality and access

- We have to start with policies aimed at growing the market, generating the demand for new jobs in LV
- These policies are where you insert standards and strategies to make sure that new jobs are good jobs, and that workers from local communities get hired
- Training should be responsive to these these good jobs strategies, via apprenticeships, and other forms of industry training partnerships
- *Again: a win-win for employers and community!*

What types of direct jobs will these projects create?

Estimated job creation from one new geothermal +
lithium extraction facility
(<2000 direct jobs total)



Most jobs will be
blue collar (~90%)

I. Construction jobs

RECOMMENDATION: All new projects for lithium related development should be built under a Community Workforce Agreement (PLA with local hire)

Job Quality: Construction

What is a Project Labor Agreement?

- PLAs are pre-hire collective bargaining agreements in the construction industry that set wage and benefit standards and ensure safe, family-supporting jobs for workers
- PLAs ensure use of apprenticeship training programs
- PLAs organize the work by trade and ensure labor peace.

Job Access: Construction

What is a Community Workforce Agreement?

- CWAs are a type of PLA that includes goals for hiring local workers as apprentices or journey level workers
- CWAs need to include adequate enforcement, e.g. by requiring tracking, reporting, and clear metrics for success in meeting hiring and advancement goals
- CA has ample funding for **pre-apprenticeship** programs and guidelines for success, including use of MC3 curriculum

II. Operations and maintenance jobs

RECOMMENDATION: All government assistance for new investment in lithium-related activities should require job quality standards and job access agreements for O&M jobs

Job Quality and Job Access: Operations and Maintenance

- Family supporting wage and benefits standards
- Worker protections, including right to organize
- Inclusive hiring agreements
- Employer commitments to invest in worker training
- **H RTP and ETP funding available**
- Sector-wide and regional collaboration

III. White collar jobs

RECOMMENDATION: Public support LV development should include support for educational pathways for local residents

Job Access: White Collar Jobs

- Access here means full access of low-income local students into community colleges and 4-year universities, because pathways into these careers is through higher education
- Educational programs and industry employers should collaborate to:
 - inform curricula
 - create opportunities for internships in industry

Core principles for training and education

Where training is needed it must be connected to family-supporting, career track jobs:

- Start with the jobs, partner with employers, and customize by industry and occupation
- Support and enhance apprenticeship and other labor-management partnerships
- Fund comprehensive training that prepares workers for careers, not one technology,, don't create new niche "green" jobs training programs.

You can't improve job access without job quality -- we want to create good opportunities for local workers, not dead-end jobs!

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Summary Principles and Recommendations:

- Incorporate job quality and job access requirements into policies to support LV development
- Support industry training partnerships

Community Benefits Agreement: A coordinated, comprehensive strategy to build the high road in LV

- CBAs are negotiated between community/labor/enviro groups and a developer, requiring specified local benefits to maximize the positive impact of public investment
- CBAs are an important tool to engage community and labor stakeholders in building a shared vision that will benefit the whole community
- A CBA policy can condition funding, procurement, or other govt assistance on having a CBA in place.
- CBAs can help facilitate expedited permitting, successful funding applications to feds and state, etc

RECOMMENDATION:

- Labor, Community, Environmental, and Employer groups should consider developing a Community Benefits Agreement to guide development in Lithium Valley
- Policy makers should consider a CBA policy for Lithium Valley development

Thank you!

Carol Zabin

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Jessie HF Hammerling

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Jim Turner

Chief Operating Officer
Controlled Thermal Resources

Workforce Planning, Education, Training and Development



CONTROLLED
THERMAL
RESOURCES

The first fully integrated geothermal-lithium facility in the United States to deliver clean energy and lithium with a near-zero carbon footprint.

How many new jobs?



CTR expects to create good paying local jobs in Imperial County

- Construction: 480 ongoing jobs under labor agreements for over 8 years or until all project stages are complete
 - Stage 1 - 220 total direct project jobs
 - Stage 2 – 940 total direct project jobs
 - Stage 3 – up to 1,400 total direct project jobs upon completion.
- The average wages are expected to be almost double that of the current median wage in Imperial County
- Over 95% of these jobs will be filled by residents of Imperial County
- It is estimated a further **2,500 ancillary jobs** will be created in the region. That's more **hairstylists, teachers, nurses, service personnel, retail and hospitality jobs** to name a few.

What kinds of jobs?

4,000+
Jobs for
Imperial
Valley

95%+
Workforce
from
Imperial
County

CTR Direct Jobs:

- Operators – Plant and Facilities Operators and Supervisors
- Maintenance Personnel – Mechanics, Electricians and Technical
- Engineers – Plant, Reservoir and Mechanical Engineers
- Warehouse and Packaging Logistics
- Finance – Accountants and Financial Assistants
- Chemists and Laboratory Technicians
- Office Administration and Service Personnel

Building and Construction Jobs:

- Various project construction jobs
- Various new housing constructions jobs

Ancillary Jobs:

- Various small businesses, service jobs, hospitality, transport and administrative jobs throughout the community



Education pathways and development?



CTR is working closely with education providers to establish clear pathways to jobs.

- Over 90% of Direct Project Jobs will go to residents with a high school diploma or equivalent
- A smaller percentage will require community college diplomas or university degrees
- This project will create equal opportunities for all levels of education and skill sets
- CTR is working closely with the County's Workforce Development team, the local high schools, Imperial College and SDSU to assist in providing information to support STEM programs and various school-to-job education opportunities.

Community workforce and on-the-job training?



On-the-job training programs will be critical to CTR's employment process.

- CTR will work closely with local high schools to create 'from-school-to-job' employment opportunities
- Once employed, CTR intend to provide on-the-job training programs, including internship and apprenticeship programs and mature-aged training programs
- CTR's goal is to create good-paying, life-long job opportunities and careers where CTR team members can grow and thrive and prosper in a safe and inclusive environment

Additional local building jobs

CTR is collaborating with the Imperial County, municipalities, local builders and the state government to develop a new housing initiative tasked with building affordable and sustainable homes in the community, for the community.



What further economic benefits will there be for the community?

According to the Imperial Valley Economic Development Corporation's (IVEDC) Economic Impact Assessment:

- ✓ “The creation of 1,400 jobs will result in an estimated **\$161.4 million** in initial earnings and an additional **\$197.9 million** in local taxes and ancillary job earnings.”
- ✓ “Controlled Thermal Resources Hell’s Kitchen Lithium and Power Project can have a significant economic impact in our region with an estimated local impact of 4,285 jobs and **\$359.3 million** in overall earnings and taxes generated for the community.”

Source: IVEDC: Controlled Thermal Resources Hell’s Kitchen Lithium and Power Project - Economic Impact Analysis



Thank you!



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Burt Short

BHE Renewables
CalEnergy Operating Corporation



BHE Renewables CalEnergy Operating Corporation



Salton Sea Geothermal



Jobs at Imperial Valley Facility

- Operators
 - High school graduate or GED, power plant certification program a plus (knowledge of algebra and basic science)
 - Starts and stops equipment
 - Takes reading and interprets trends of temperatures, pressures, levels and other measurements involving the geothermal energy production
 - Responds to fluid spills
 - Opens, throttles, and closes valves
 - Understanding of rotating equipment including compressors, pumps, turbines, and gears
 - Able to read piping diagrams (piping and system blueprints)

Jobs at Imperial Valley Facility

- Control Operators
 - High school graduate or GED, power plant certification a plus (knowledge of algebra and basic science)
 - Previous qualifications as an operator
 - Similar to pilot of airplane
 - Starts and stops equipment remotely
 - Adjust valves remotely to control plant processes
 - Monitors computer screens for trends, excursions, and alarms
 - Sync generator to electrical grid
 - Coordinates with maintenance department for work needed on broken or damaged equipment and preventive maintenance work

Jobs at Imperial Valley Facility

- Instrumentation and Controls
 - Two/Four-year degree in instrumentation, computer programming, plant controls and electrical plant devices
 - Repairs and adjusts plant and environmental monitoring equipment
 - Read and adjust computer logic controlling various devices including turbine controls, monitoring devices, and remote operators
 - Knowledge of electrical plant including electronics and micro-miniature devices
 - Troubleshooting of plant monitoring and control equipment

Jobs at Imperial Valley Facility

- Electricians
 - Two/Four-year degree in electrical systems
 - Pulls wires and repairs breakers and other electrical devices
 - Maintenance and repairs of electrical generators
 - Knowledge of electrical distributions systems and equipment
 - Troubleshooting of generators and electrical systems
 - Adjustments to electrically operated controls and low voltage and high voltage devices

Jobs at Imperial Valley Facility

- Maintenance Technicians
 - High school graduate or GED minimum, equipment maintenance certifications (knowledge of algebra and basic science)
 - Repairs valves, pumps, compressors, gears, piping connections
 - Adjustments to rotating equipment (compressors and pumps)
 - Some maintenance jobs require welding certifications
 - Some maintenance jobs require machining experience

Jobs at Imperial Valley Facility

- Resource Technicians
 - High school graduate or GED, maintenance certifications a plus (knowledge of algebra and basic science)
 - Monitor well field piping and systems
 - Perform repairs on well field valves and monitoring equipment

Jobs at Imperial Valley Facility

- Lab Technicians/Chemists
 - Two/Four-year chemistry/lab tech degree
 - Sample various plant processes
 - Operate sampling equipment
 - Perform various analytical computations on samples
 - Work in a chemical laboratory

Jobs at Imperial Valley Facility

- Environmental Specialists
 - Two/Four-year degree in environmental engineering (air, solid waste, hazardous waste)
 - Monitor and report on various environmental conditions
 - Train site personnel on spills and compliance reporting
 - Administer multiple site environmental permits
 - Coordinate with local, County, State, and Federal environmental agencies

Jobs at Imperial Valley Facility

- Engineers
 - Four-year degree or masters' degree in hard sciences
 - Electrical
 - Mechanical
 - Geologists
 - Controls
 - Chemical

Jobs at Imperial Valley Facility

- Safety Specialists
 - High school graduate or GED
 - Power plant safety experience preferred
 - Various safety certifications required (OSHA, CALOSHA)
 - Train site personnel on personal safety requirements
 - Monitor site personnel and contractors for PPE (personal protective equipment
 - hard hats, hearing protection, safety glasses)
 - Monitor and correct site safety hazards
 - Compliance reporting

Jobs at Imperial Valley Facility

- Operations Supervisor
 - Previous control operator or power plant operations experience
- Maintenance Supervisor
 - Previous maintenance/operations of a power plant
- Management
 - Bachelors' degree in hard science preferred
 - Previous control operator or power plant supervisory and operations experience
 - Various Departments (Resource, Human Resources, Operations, Maintenance, Analytical Services (Lab), Engineering, Environmental, Safety

Jobs at Imperial Valley Facility

- Other support jobs (high school graduate or GED minimum, some jobs require training/certifications or college degree applicable to area of work)
 - Procurement – ordering equipment, piping, parts, PPE, supplies and materials
 - Storeroom – inventory and dispense equipment, piping, parts, PPE, supplies and materials
 - NDE (Non-destructive engineers) – determine piping thickness, determine wear and tear on plant equipment, determine material (metal) failures
 - Heavy equipment operators
 - Project analysts – handles contractor and vendor invoices, timesheets, and other plant administration
 - Truck drivers – Commercial Driver's License

Future Operations

- Currently working on a lithium extraction process
 - Potential for up to 200 new jobs associated for full scale lithium extraction operations

Employee Compensation and Benefits

- Entry level jobs start around \$21/hour
- All full-time jobs include
 - Company 401K matching
 - Medical, dental, vision, and prescription benefits
 - Short-term and long-term disability
 - Company provide life-insurance (one-year annual salary with option to purchase additional coverage including spouse and child life insurance)
 - Incentive program (annual bonus based on company and employee performance)
 - 144 hours paid time off, sick leave, and paid holidays
 - Majority of jobs include ability to earn overtime pay
 - Profit sharing

Questions





BHE

RENEWABLES

A Berkshire Hathaway Energy Business



Marc Cowan

High Road Construction Careers
California Workforce Development Board



Robert Meyer

Director of Economic Development
Employment Training Panel

Employment Training Panel

*Lithium Valley: New opportunities
for stronger partnership, equity
and recovery*

Robert Meyer

Director of Economic Development

robert.meyer@etp.ca.gov

February 24, 2022 | CEC



What is ETP?

ETP is a business and labor supported State agency that uses a **pay-for-performance contract** to reimburse costs for employer-customized job skills training.

- flexible contract structures
- flexibility in training topics, delivery methods and training providers
- serve new and existing workers, job seekers, apprentices and small business owners

ETP will fund approximately \$100 Million from multiple sources in training in FY 2021/2022.

Job Creation, Equity and Impact

Priority Industries and Small Business
Underserved Workforce Populations
Economically Disadvantaged Communities
Apprenticeship, Pre-Apprenticeship and
Journey Worker Training
Zero Emission Vehicle Technology
CASCADE (OPR) / CADENCE (OPR)
RESPOND (Natural Disaster)
Aligned State / Federal Grants and
other investments

ETP Contract Models

Single Employer

ETP eligible employer trains new and existing employees in employer-customized job skills training. *Targets: Mining, Energy, Scientific, Manufacturing, Engineering and Construction*

Multiple Employer Contractor

ETP contractor aggregates training needs to train and place job seekers, upskill new and existing workers. *Targets: EDC, Chamber of Commerce, JATC, USD, CCD, CSU/UC, WDB*

ETP Program Details

Trainees: New and Existing Full-time Workers
Unemployed Individuals
Apprenticeship and Journey Workers
Small Business Owners

Training: Employer Customized Job Skills
Excludes legally-required training

Flexible Delivery Methods and Provider Choices

Post-training employment retention required

Requires an In-Kind Contribution

Basic Trainee Requirements

Trainees meet, receive or have exhausted Unemployment Insurance Benefit claim eligibility.

Trainees must complete a minimum of 8 hours of training within the contract term.

- New Hire Maximum is 260 hours of training.
- Retraining Maximum is 200 hours of training.

Training Funds are **EARNED**

- after a post-training employment retention period (usually 90-days) AND
- worker is earning in excess of a contract-specified minimum wage.

ETP Reimbursement

The cost of training is the cost of training.

ETP uses a **fixed-fee training reimbursement rate** that is inclusive of all administration and training costs. MECs may add support costs to reimbursement rates.

ETP reimbursement rates are contract specific but range from \$9 - \$23 per trainee, per training hour.

ETP funding = total training hours x reimbursement rate

New Hire Training costs can not be passed to trainees.

Reimbursement may not duplicate or supplant funding available for the same training.



Connecting to ETP

ETP Website has approved contracts, Panel Meetings, requirements and updates: <https://www.etp.ca.gov>

Multiple Employer Contract partners:
<https://etp.ca.gov/training-opportunities/>

Interactive Orientation for interested entities
<https://etp.ca.gov/getting-started/apply-for-funds/interactive-orientation/> or call (916)327-5258

Start the ETP application: <https://etp.ca.gov/getting-started/apply-for-funds/>

Free Application Process and Technical Assistance!



Connecting to ETP



Northern California: Renee Pierce

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WWW.ETP.CA.GOV

Addendum Materials

Rapid Employment Strategies on Natural Disasters

These guidelines were originally designed to address the Governor declared State of Emergency, due to extreme drought conditions.

They have been extended to include fires, earthquakes, drought, COVID-19 and other major disruptions to the state's economy.

Both Single Employer and MEC Employers are eligible to participate in the RESPOND Program. Training must *specifically* address direct impacts of declared natural disaster. Project development is expedited.

CADENCE

California Advanced Defense Ecosystems & National Consortia Effort will strengthen national security through technical and workforce development assistance key advanced DOD technologies including:

Microelectronics, Smart Manufacturing
5G wireless technology, Artificial Intelligence,
Quantum Computing, Space, and
Fully networked command, control and
communications (FNC3)

Rapid Employment Strategies on Natural Disasters

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Who can contract with ETP?

- **Employer** – Private for profit and certain private, non-profit Employers
-
- **Group of Employers** – Chamber of Commerce, Trade Association, Joint Apprenticeship Training Committee, Economic Development Corporation
 - Public or Private **Training Agency**
 - **Workforce Development Board**
 - Workforce Investment and Opportunity Act (WIOA) **Grant Recipient/Administrator**

Key term – Multiple Employer Contractor

Basic Employer Eligibility

Employers must be subject to the Employer Training Tax and use EDD to report wages for employees. This is private-for-profit employers, primarily.

- excludes most non-profit and public employers.

Employers retraining workers must face **Out-of-State Competition** or meet alternative eligibility requirements including:

- High wage occupations
- High Unemployment Areas or
- Serving individuals with multiple barriers to full time employment (veterans, justice-involved workers)

Contracting within the MEC

Flexibility of building and controlling your training:

- course selection, trainers, delivery method, and scheduling
- costs are lower for employers in the MEC
administrative and development services are performed by the contractor
- help with the ETP learning curve

Employers can maintain an on-going relationship for training and additional resources, e.g. grants, tax credits, networking, recruitment assistance

2022 ETP Minimum Wages

Effective for contracts approved on or after January 1, 2022 and before December 31, 2022.

Category	New Hire (Minimum Wage After Retention)	Retrainee (Minimum Wage After Retention)
Standard ETP Minimum Wage	\$17.64 - \$19.61	\$21.57 - \$23.53
High Unemployment Area (with Wage Waiver)	\$15.00	\$16.17 - \$17.64*
Job Creation Retrainee minimum wage is \$15.00 (effective 7/1/19)		
SET Frontline Workers	\$39.21	
SET Frontline Workers (Critical Proposal/Priority Industry)	\$29.41	

* The contract will reflect the employers minimum wage if greater than the ETP required minimum wage.



Priscilla López

Director

Imperial County Workforce & Economic Development Office



Efrain Silva

Dean of Economic & Workforce Development
Imperial Valley College

Imperial (Lithium) Valley Development of New Programs





THE CALIFORNIA BLUEPRINT



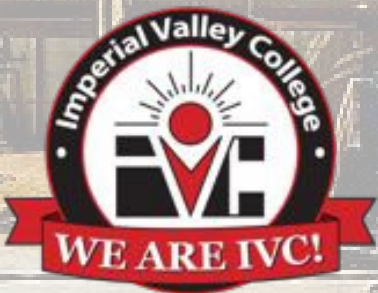
DEVELOPING LITHIUM VALLEY

- World-class battery manufacturing ecosystem
- Improve renewable energy, create good jobs
- New regulatory certainty
- Spur private investment
- Labor and environmental standards
- Loan programs



New Industry for Imperial County

- Imperial County created the “Furthering Geothermal Development- Lithium Valley Development” workgroup to address and prepare for the expansion of geothermal activities including lithium and other minerals extraction.
- The work group works with the geothermal companies to address infrastructure, environmental, permitting, and workforce development.
- Imperial Valley College currently developing certificates for lab technicians and plant operators. Additional programs can also be develop as identified by lithium industry.



- IVC's participation and program development status
 - Conducted 4 zoom meetings with industry representatives and faculty to identify specific industry needs.
 - Completed crosswalk of Chemical Technician and Plant Operator Programs in California Community Colleges.
 - Conducted a site visit to Cal Energy including a tour of their laboratory operation and assessment of instructional equipment needs.
 - Completed an assessment of job descriptions and alignment with current IVC courses and programs.
 - Currently working on the development of two new academic programs: Laboratory Technician and Plant Operator
 - Employer endorsements for the development of these programs received from
 - Berkshire Hathaway Energy
 - Control Thermal Resources
 - Energy Source
 - Employer endorsement required because these jobs do not have a current high level demand. The demand for new jobs will expand with this new industry.



- Program development will be spearheaded by college chemistry faculty with PhDs, water treatment faculty, occupational safety faculty, and other disciplines as needed.
- IVC will be retaining professional experts from the lithium companies in lab and plant operations to work alongside college faculty to develop programs that are customized to meet the needs of this new industry.
- Programs are being developed as short-term certificates that can be completed in less than one year, with pathways for associate and bachelor degree programs.
- IVC is identifying resources that will be required to teach these disciplines using the latest technology available including laboratory and plant equipment.
- Estimated date of completion fall 2023.
- Questions?





Danny Machain

Assistant Business Manager

International Brotherhood of Electrical Workers Local 569



Imperial County Building Trades

Building Stronger Communities in
Imperial County, CA



Training Opportunities



Trades Apprenticeships

Earn While you Learn

and the differences of College Training

WORKFORCE

**Ready
To Work
NOW**



About The Imperial Building Trades

Imperial Valley Workforce Statistics
as of December 2021

- Membership: 2,350
- Apprenticeship: 226

Heat & Frost Insulators Local 5



Geothermal Plants in the Valley



Iron Workers



Rebar at the
Calexico Port of
Entry



Reinforcing a new
bridge over Hwy 8

Laborers

Drew Solar - Pile driving
posts in the ground.



Operating Engineers

Salton Sea Habitat Conservation Project. Journeyman and apprentice pictured.



Le Conte Energy Storage Project

UA Local 230 - Plumbers and Steamfitters Union



Calexico Land Port of
Entry Phase 2A





About IBEW 569

- 3,600 Union Members
- 2 apprentice training locations: San Diego and Imperial
- 550+ Apprentices
- 70 apprentices in Imperial
- Green Energy Jobs
- Community Outreach
- Pre-Apprenticeship and Apprenticeship opportunities
- Free training and full family healthcare benefits

PROGRESS

**Green
Energy
Jobs
NOW**



Drew Solar Project

100 MW solar energy on six parcels totaling 762.8 acres in El Centro, Imperial County.



PROGRESS

**Green
Energy
Jobs
NOW**



Le Conte Battery Energy Storage

125 MW of electric storage in Calexico, Imperial County.



PROGRESS

FUTURE

Green Energy Jobs



Westside Canal Battery Storage

2,000 MW on 163 acres



Vikings Solar Energy & Storage

150 MW Solar & 300 MW BESS



Vegas SES Solar

100 MW Solar & 100 MW BESS



PLAs / CBAs

What is a Project Labor Agreement?

- Pre-hire collective bargaining agreements in the construction industry that set wage and benefit standards and ensure safe, family-supporting jobs for workers.
- Ensures that construction will be carried out with a fully-trained workforce, organizes the work by trade, and ensures labor peace.
- Contractors hire apprentices and journeymen trained in state-certified programs, like IBEW Local 569's training program in Imperial Valley.

What is a Community Benefit Agreement?

- Negotiated between community/labor/enviro groups and a developer, requiring specified local benefits to maximize the positive impact of public investment.
 - Benefits may include job quality and inclusive hiring goals as well as other considerations, such as investment in environmental restoration and other direct benefits to local low-income communities.
- They are an important tool to engage community and labor stakeholders in building a shared vision that will benefit the whole community.
- Can help facilitate expedited permitting, successful funding applications to feds and state, etc.



Imperial County Building Trades

Danny Machain

Imperial County Trades Council, President
IBEW 569, Assistant Business Manager
dmachain@ibew569.org





Q and A among Lithium Valley Commissioners / Preguntas y respuestas entre los comisionados de Lithium Valley



Panel Discussion Creating Access to Economic & Job Opportunities **/ Panel de discusión: Creando acceso a las oportunidades económicas y laborales**

Moderator / Moderador

- Shrayas Jatkar, CA Workforce Development Board

Panelists / Panelistas

- Chris Benner, Ph.D, UC Santa Cruz
- Hector Meza, IBEW 569
- Sahara Huazano, Alianza Coachella Valley
- Marco Lizarraga, La Cooperativa Campesina



Q and A among Lithium Valley Commissioners / Preguntas y respuestas entre los comisionados de Lithium Valley



Public Comment / Comentarios del público

Comment Instructions:

Limited to 3 minutes per comment

By computer: use “raise hand” feature in Zoom

By telephone: dial *9 to “raise hand” and *6 to mute/unmute your phone line

Instrucciones para los comentarios:

Límite de 3 minutos por comentario

Por computadora: use la función de “levantar la mano” de Zoom

Por teléfono: marque *9 para “levantar la mano” y *6 para silenciar y para activar el sonido





Planning for Upcoming Workshops / Planificación de próximos talleres

- Continuation of Environmental Impacts Workshop
- Economic Impacts Workshop
- Schedule for Future Workshops
- Continuación del Taller de impacto Ambiental
- Taller sobre impacto económico
- Programación de futuros talleres



Public Comment / Comentarios del público

Comment Instructions:

Limited to 2 minutes per comment

By computer: use “raise hand” feature in Zoom

By telephone: dial *9 to “raise hand” and *6 to mute/unmute your phone line

Instrucciones para los comentarios:

Límite de 2 minutos por comentario

Por computadora: use la función de “levantar la mano” de Zoom

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Administrative Items / Temas administrativos

- Approval of January 27, 2022 Meeting Action Minutes and February 16, 2022 Meeting Action Minutes
- Aprobación del Acta de Acción de la Reunión del 27 de enero de 2022 y del 16 de febrero de 2022



Informational Items/ Temas informativos

- Media and Legislative Updates
- Lithium Valley Commissioner Updates
- Actualización sobre Medios y Legislación
- Actualización sobre el comisionado de Lithium Valley



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Adjourn / Levantar la sesión



Webpage / Página Web: www.energy.ca.gov/LithiumValleyCommission
List Serv / Lista de Correo Electrónico: Lithium Valley Commission

Thank you!

¡Gracias!

LithiumValleyCommission@energy.ca.gov



Break

Return at: 3:45

LithiumValleyCommission@energy.ca.gov