





# Meeting Labor Requirements for UTEN & Large GSHP Projects

- Moderator: Christine Hoffer / NY-GEO
  - Panel:
     Emily Engman / Eide Bailly

     Tame Corrigon / Loogl 7
    - Tom Carrigan / Local 7
    - Harrison Watkins / LiUNA
    - Michael Lyons / IUOE 158

#### POLICY & PROGRAMS • ROOM M2A • 1:45 - 2:45 PM



# INFLATION REDUCTION ACT AND PREVAILING WAGE & APPRENTICESHIP

#### **INFLATION REDUCTION ACT OF 2022 – CLEAN ENERGY ROADMAP**

Clean electricity & reducing carbon emissions	<ul> <li>Extending/modifying existing credits</li> <li>45 – Production tax credit (PTC)</li> <li>48 – Energy credit (ITC)</li> <li>45Q – carbon capture</li> <li>New credits</li> <li>48 – increase ITC for solar in low-income communities</li> </ul>	Clean energy incentives for individuals	<ul> <li>Extending/modifying existing credits</li> <li>25C – Nonbusiness energy (extend/increase/modify)</li> <li>25D – Residential energy efficient property</li> <li>45L – New energy efficient homes</li> </ul>
Clean fuels	<ul> <li>45U – Zero emission nuclear power PTC</li> <li>Extending/modifying existing credits</li> <li>40, 40A, 6426, 6427 – biodiesel, alternative fuels</li> <li>40(b)(6) – second generation biofuel</li> <li>New credits</li> </ul>	Clean vehicles	<ul> <li>Extending/modifying existing credits</li> <li>30C – Alternative fuel refueling property</li> <li>30D – Clean vehicles credit</li> <li>New credits</li> <li>25E – Used clean vehicles</li> <li>45W – Commercial vehicles</li> </ul>
Manufacturing & energy security	<ul> <li>40B/6426/6427 – sustainable aviation fuel blender credit</li> <li>45V – PTC – clean hydrogen</li> <li>Extending/modifying existing credits</li> <li>48C – Advanced energy project credit – new credit</li> </ul>	Clean electricity and transportation	<ul> <li>Below new incentives generally effective 1/1/2025</li> <li>45Y – Clean Electricity PTC</li> <li>48E - Clean Electricity ITC</li> <li>45Z – Clean Fuel PTC</li> <li>Cost recovery for qualified facilities, property, and storage</li> </ul>
	allocation <ul> <li>179D Energy efficient commercial buildings</li> </ul> New credits <ul> <li>45X – Advanced manufacturing PTC</li> </ul>	Superfund excise tax	<ul> <li>New tax</li> <li>4611 – Reinstate hazardous superfund financing rate on crude oil and petroleum products</li> </ul>



## **ENERGY CREDITS**

Clean Energy Investment Tax Credit (Section 48)/Clean Electricity Investment Tax Credit (Section 48E)



# Investment in equipment that produces energy from alternative sources:

- Solar
- Wind
- Geothermal
- Fuel Cells
- Microturbines
- Combined heat and power systems

- Equipment that recovers waste energy
- Energy storage

## **ENERGY CREDITS**

#### **Credit Percentage**

- Basic credit = 6%
- Increased Credit Requirements = 30%
- Domestic Content = +10%
- Energy Community = + 10%
- Environmental Justice Allocation

#### Increased Credit Requirements

- maximum net output of less than 1 megawatt (284 tons)
- beginning of construction prior to January 29<sup>th</sup>, 2023
- satisfies the Prevailing Wage & Apprenticeship requirements

# INFLATION REDUCTION ACT – MONETIZING CREDITS

#### Section 6417: Direct Pay

- Eligible Entities:
  - Tax-exempt
  - State or political subdivision
  - TN Valley Authority
  - Tribal Government
  - Alaska Native corporation
  - Rural Electrical Co-ops
  - Certain Partnerships and S
     Corporations

#### Section 6418: Transferability

- Everyone not listed in 6417
- Transfer for Cash
- Buyer is not eligible for direct pay
- Proceeds not includable as income or expense
- Risk on Transferee
- Consideration for tax insurance instrument

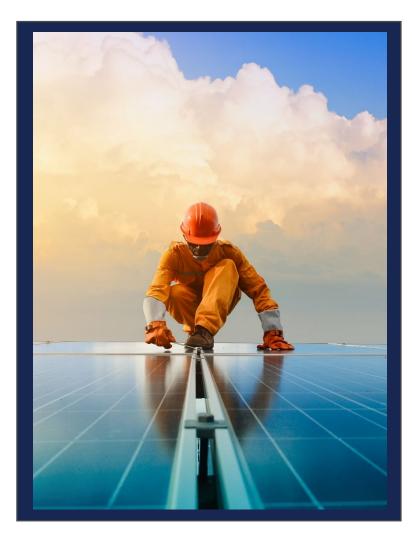


# INCREASED CREDIT REQUIREMENTS

#### **PREVAILING WAGE & APPRENTICESHIP**

#### **PREVAILING WAGE**

- Defined by Davis Bacon
- Risk maintained by Taxpayer
- Documentation
  - Name & ID Number
  - Work Classification
  - Hours worked
  - Rate of Pay, including Fringe Benefits
- Penalties



#### APPRENTICESHIP

- Registered Apprentice
- Labor Hours
  - 15%
- Apprentice to Journeyworker Ratio
- Participation Requirement
- Exceptions
  - Good Faith Effort
  - \$50 or \$500 per labor hour



# PREVAILING WAGE & APPRENTICESHIP REPORTING CHALLENGES

#### **PREVAILING WAGE & APPRENTICESHIP CHALLENGES**

#### **PREVAILING WAGE**

- Construction type
- Job Classifications
- Deficient Hourly Wage
- Overtime

#### APPRENTICESHIP

- Registered
  - Apprenticeship Programs
- Journeyworker to
  - Apprenticeship Ratio
  - Contractual Bargaining
    - Agreement Ratios
  - State Department of Labor Ratios

#### REPORTING

- Review Timelines
  - Penalties





# Local 7 Plumbers & Steam Fitters

## Commercial Ground Source Heat Pump Systems





#### Tom Carrigan

- 38 Year Member of UA Local 7 Plumbers and Steamfitters
- Business Agent UA Local 7
- IGSHPA Accredited Geothermal Installer (2024)



#### Multiple Trade's Roles on a PLA Bore Hole Ground Loop Field Installation

- Drilling the Bore Holes
  - 1 Operating Engineer and 1 Laborer
- Excavating the Ground Loop Field
  - 1 Operating Engineer and 1 Laborer
- Installing the Ground Loop Piping Coil into the Bore Hole
  - 1 Operating Engineer and 1 Laborer
- HDPE Piping Installation for Ground Loop Field
  - 3 Pipefitters
- Hydro Testing Ground Loop Field
  - 2 Pipefitters



#### Multiple Trade's Roles on a PLA Geothermal Project Inside of the Building Work

- Setting Geothermal HVAC Equipment (Pipefitters)
- Piping Mains and Branches (Pipefitters)
- Condensate Drains (Pipefitters)
- Power and Control Wiring (Electricians)
- Ductwork (Sheetmetal Workers)
- Piping and Duct Insulation (Insulators)
- Piping Loop and Ground Loop Flushing (Pipefitters)
- System Start Up (Pipefitters, Electricians and Sheetmetal)



#### Geothermal Training at Local 7

- All Apprentices receive Geothermal Training:
- Geothermal System design
- Geothermal System Installation Basics
- HDPE Piping Certification
- Hands on Grouting a Bore Hole



#### Local 7 scope of work on these projects

- Installing GSHP Units in the Building
- Installing GSHP Building Loop Mains and GSHP Unit distribution piping in the Building
- GSHP Unit Condensate Piping
- Installing the Ground Heat Exchanger outside of the Building, HDPE Piping, Hydro Testing and Flushing.



# NYS Registered Apprentice Program Plumber/Pipefitter

#### Tasks on the Jobsite:

- Rigging
- Operation of Tools and Equipment
- Safe use of Ladders and Personal Lifts
- Piping Installations
- Installation of Controls
- Installation of Plumbing Work
- Boiler Installation
- Natural Gas Piping
- Geothermal Installations (Installing, Maintenance and Repair)





#### Safety Training of Local 7 Members

- Excavation Safety
- HDPE Piping Certification
- Ladder Safety
- Aerial/ Scissor Lift Training
- Pressure Testing



• Proper Usage of PPE (Hard Hats, Safety Glasses, Gloves, Ect.)

- ETEC Building Harriman State Office Campus Albany N.Y.
- Contractor T Lemme Mechanical Inc.
- Project Completed Fall 2021
- 190 Bore Hole Loop Field



- Steamboat Square 20 Project
- Contractor: Collett Mechanical
- Project Completed Spring 2024
- 32 Bore Hole loop Field



- HVCC STEM Facility (Malta Campus)
- Contractor T Lemme Mechanical Inc.
- Project Completed September 2024
- 24 Bore Hole Loop Field



- Saratoga County Airport Project
- Contractor: Eckert Mechanical
- Under Construction
- 24 Bore Hole Loop Field
- Eckert Complete all Geothermal Work on the Project



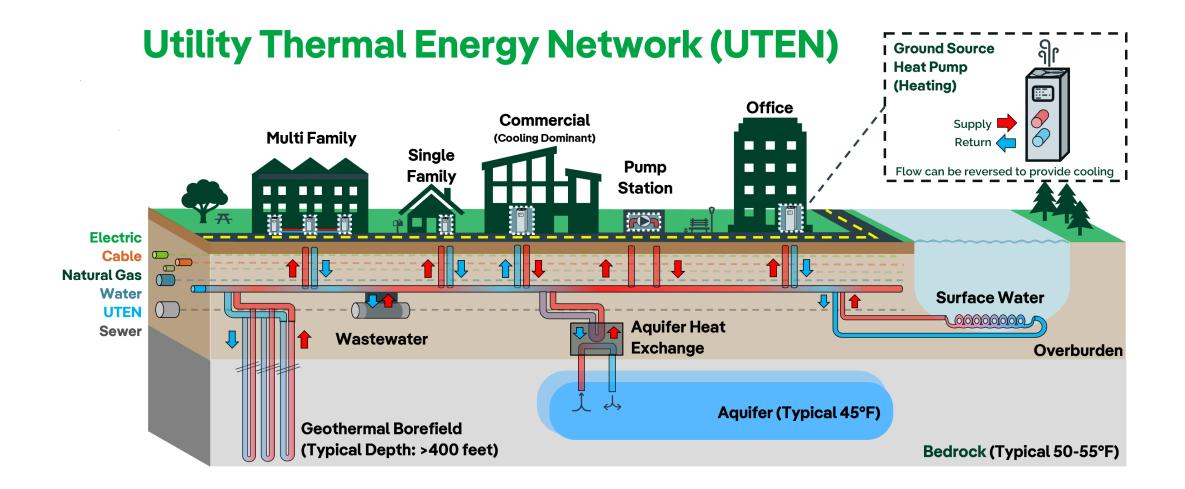
#### Projects Local 7 Signatory is working on

- Holyoke Solders Home Holyoke Massachusetts
- Contractor: Harry Grodsky & Co inc.
- 148 Bore Hole Loop Field
- Under Construction





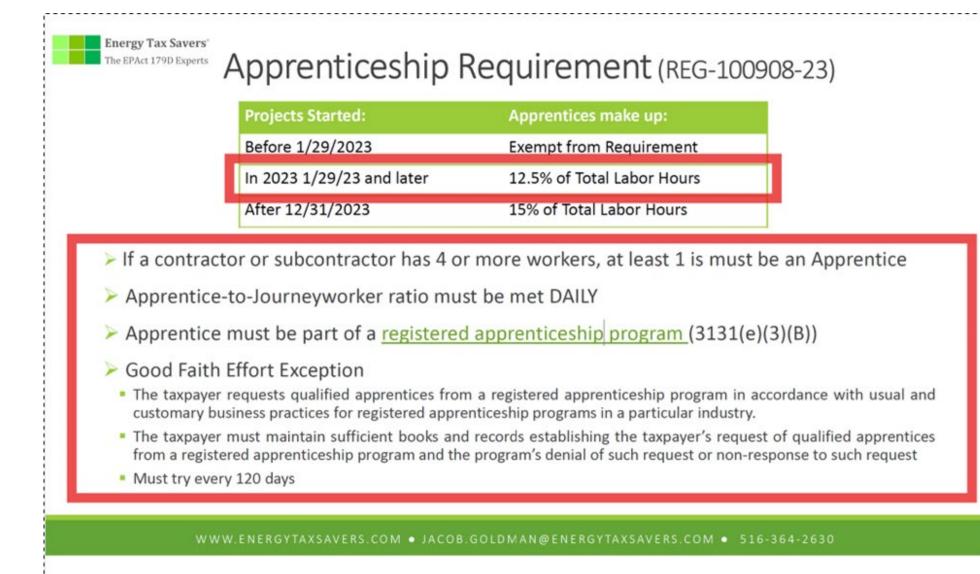
#### Utility Thermal Energy Networks (UTEN)



#### IRA (Inflation Reduction Act of 2022)



#### Apprenticeship Ratio for Tax Credit's



#### Why use Union Labor on a PLA Project?

- Skilled, Professional and Trained Workforce
- Safety Trained Workers
- Adequate supply of manpower
- Union Trades work well with other Trades on Project

#### •The Job will be on time and on budget!

# NYS Laborers &

# Geothermal Energy

Your Renewable Workforce

NY GEO | Saratoga, 2025

## **OVERVIEW**

We represent over 44,000 hard working construction craft laborers across the state

Play video

## GEOTHERMAL ENERGY'S RELEVANCE TO LABORERS

Part of CLCPA Scoping Plan

Very similar to our utility gas work, down to the same kind of pipe

Potentially lots of work

UTENJA requires prevailing wage

UTENJA has direct-entry apprenticeship language

## TRAINING

Training schools across
 NYS

Trained with IGSHPA

 Can run any training class a contractor
 needs

## **APPRENTICESHIP**

NYSDOL certified
 programs across the
 state

 Direct-entry preapprenticeship programs as well

# Project Labor Agreements (PLA's)

Mike Lyons, Labor Relations Specialist IUOE Local 158

#### Benefits of PLA's in Construction & Large Scale Projects

- Enhanced Labor Relations
- Cost control
- Workforce Stability

Increase
Productivity

- Timely Project Completion
- Safety & Compliance
- Community Benefits
- Quality Assurance







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