# National EV Charging Initiative Phase 3: ***Energize!***

Complementary Policies Working Group: Workshop #1
July 25, 2023

eMobility Advisors

# Agenda

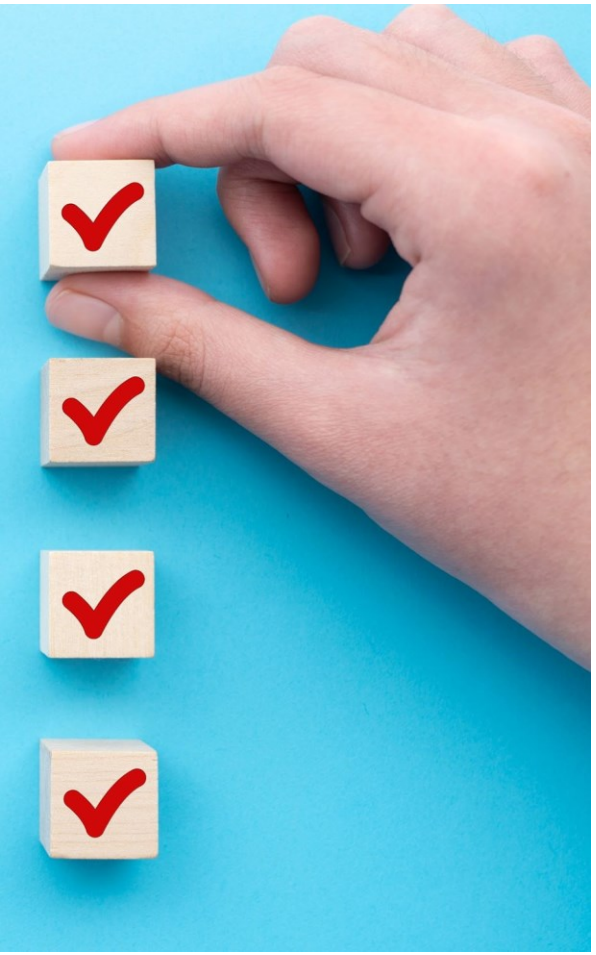
- Welcome
- Institutional Context: utilities, energy regulators, legislatures and EVs
- Where we are today: utility programs and investments
- Legislation
  - Recent legislation adopted
  - Elements needed in Model Bill
- *What happens next?*

# Guiding Principles

Touchpoint for the Energize Agenda

- There is an urgent need to scale up and broaden access to charging infrastructure to serve light-, medium- and heavy-duty EVs.
- The private sector should step up with unprecedented investment, augmenting government and utility funding to finance charging infrastructure that serves all communities and vehicle types.
- Electric utilities, regulators, and stakeholders should work together to accelerate transportation electrification in a manner that supports the electric grid and benefits all utility customers.
- The provision of fundamental electrical infrastructure necessary to charge EVs should be part of the normal course of utility business.

# Phase 3 Objectives



- Expand membership
  - Members of participating organizations-- individual companies
  - Include goods movement: fleet operators, truck OEMs
- Organize Complementary Policies Working Group
- Develop policy agenda
- Build consensus among stakeholders
- Create 2024 action plan to advocate for model policies in key states

# Phase 3 Timeline

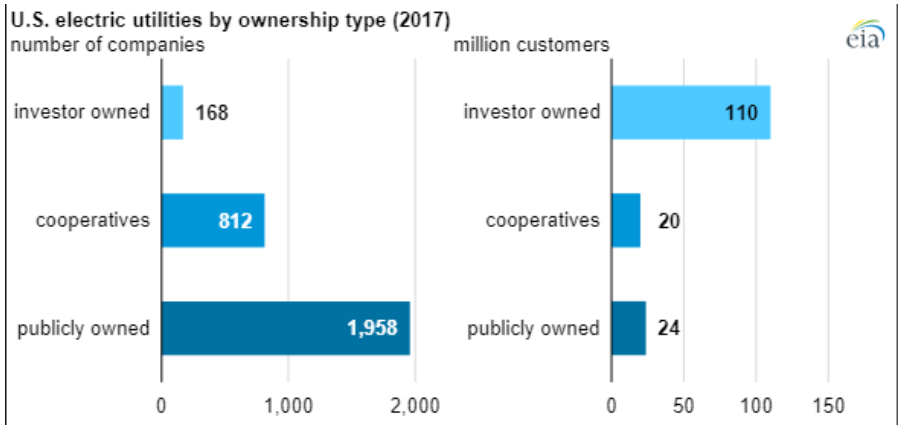
- Pre-launch at Forth Roadmap Conference (May 15)
- Kick-off Webinar (May 24)
- Complementary Policies Working Group workshops (June-Aug)
  - The Provision of Make-Ready Electrical Infrastructure on the Utility Side of the Meter
  - Utility Transportation Electrification Plans
  - Rates and Vehicle Grid Integration
  - Timely Energization and Grid Planning
- Summit (Sept 19)
  - Unveil the model bill
  - Identify target states
- Socialize and build support at NARUC, NGA, NASEO, etc… (thru Oct)
- Present advocacy gameplan (Dec)

# Institutional Context

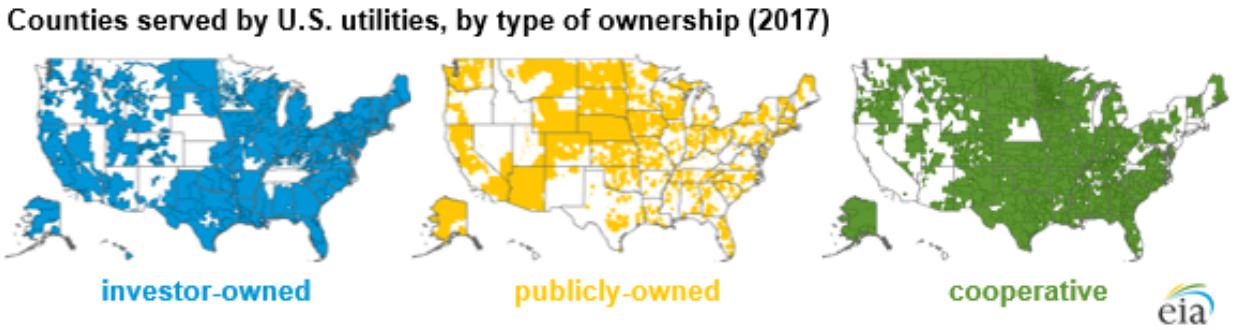
# US electric utilities are local monopolies

*Most utilities are publicly owned, but most customers are served by Investor Owned Utilities*

**Most of the 3,000+ electric utilities in the US are publicly owned (POUs).**




**Most electricity customers, especially in urban areas, are served by about 100 large Investor Owned Utilities (IOUs).**



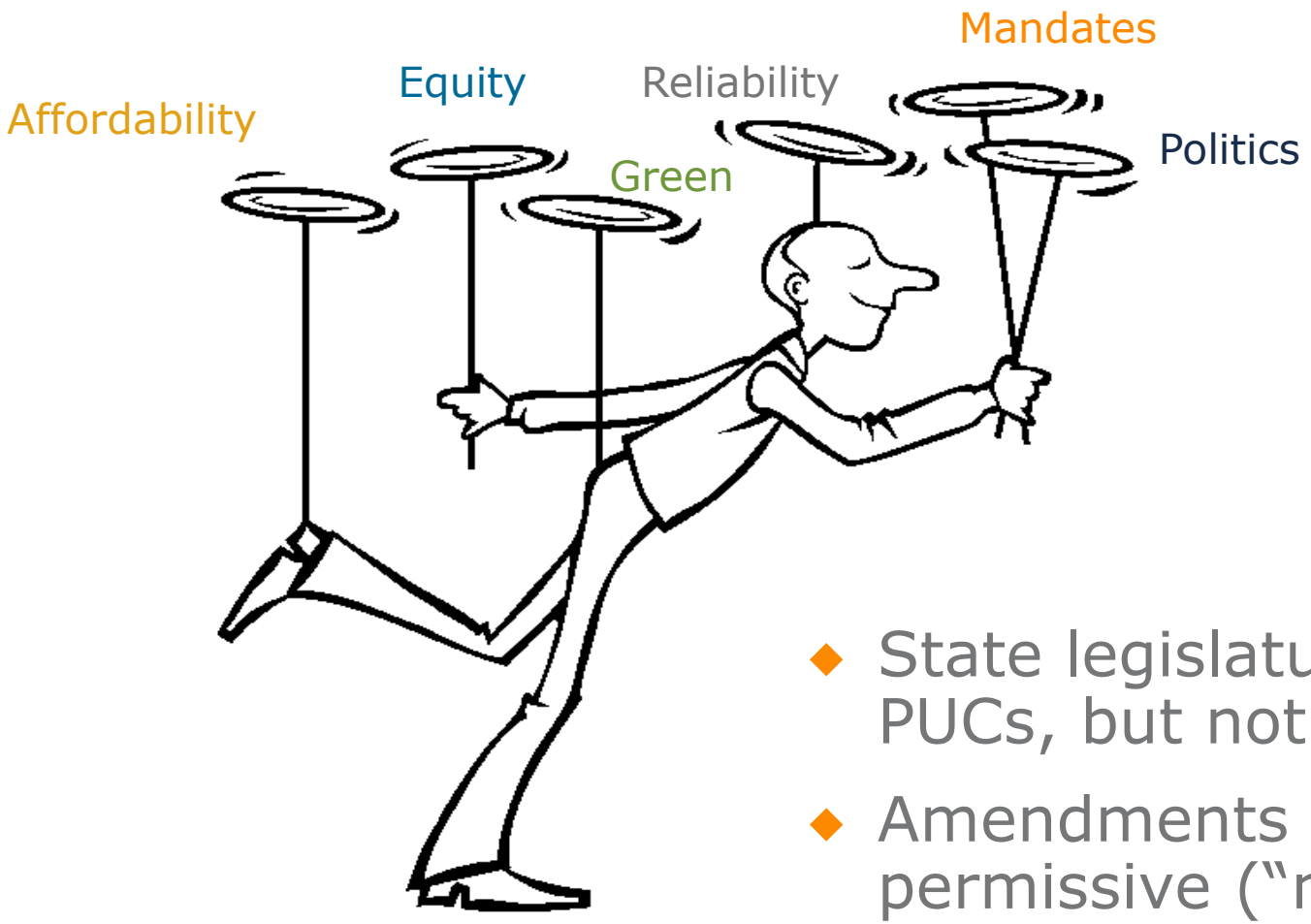


Source: https://www.eia.gov/todayinenergy/detail.php?id=40913

# Utility Governance

- States are the principal IOU regulators
  - Public Utility/Service Commission (sometimes other names)
  - Commissioners are appointed in most states, elected in about 15
- Federal jurisdiction (FERC) is mainly over interstate commerce– energy markets, transmission
- Federal government tends to be deferential
  - Example- PURPA amendments re EV rates in IIJA
- POUs (e.g. Munis, Co-ops) are "self regulating,"
  - Governing boards may be elected or sometimes part of city government (e.g. LA Dept. of Water and Power)
  - State and federal government can mainly offer carrots

# Legislature-Regulator Nexus




PUC Commissioners and Governing Boards must balance many considerations

- State legislatures have leverage over IOUs and PUCs, but not POUs and their governing boards
- Amendments to Public Utility Code can be permissive (“may”) or prescriptive (“shall”)
- Nobody wants to be seen as the villain who raised consumers’ utility bills

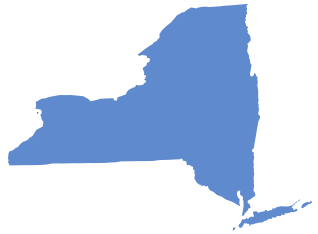
# Three bellwether states: three procedural approaches

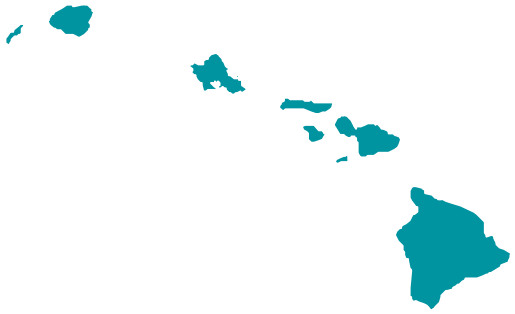
### *"Let a thousand flowers bloom"*

- Multiple applications to CPUC, many "pilots"
- $2.8B in ratepayer funding approved for utility programs
- After a decade, CPUC is now developing a holistic Transportation Electrification Framework

### *"We're in charge here"*

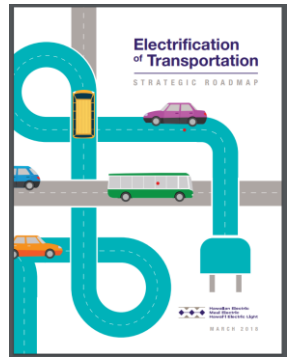
- Compact stakeholder process informed NYPSC staff white paper
- July 2020 order provided express direction
- Approach reflects NY's emphasis on competitive markets





### *"Consult with stakeholders & make a plan"*

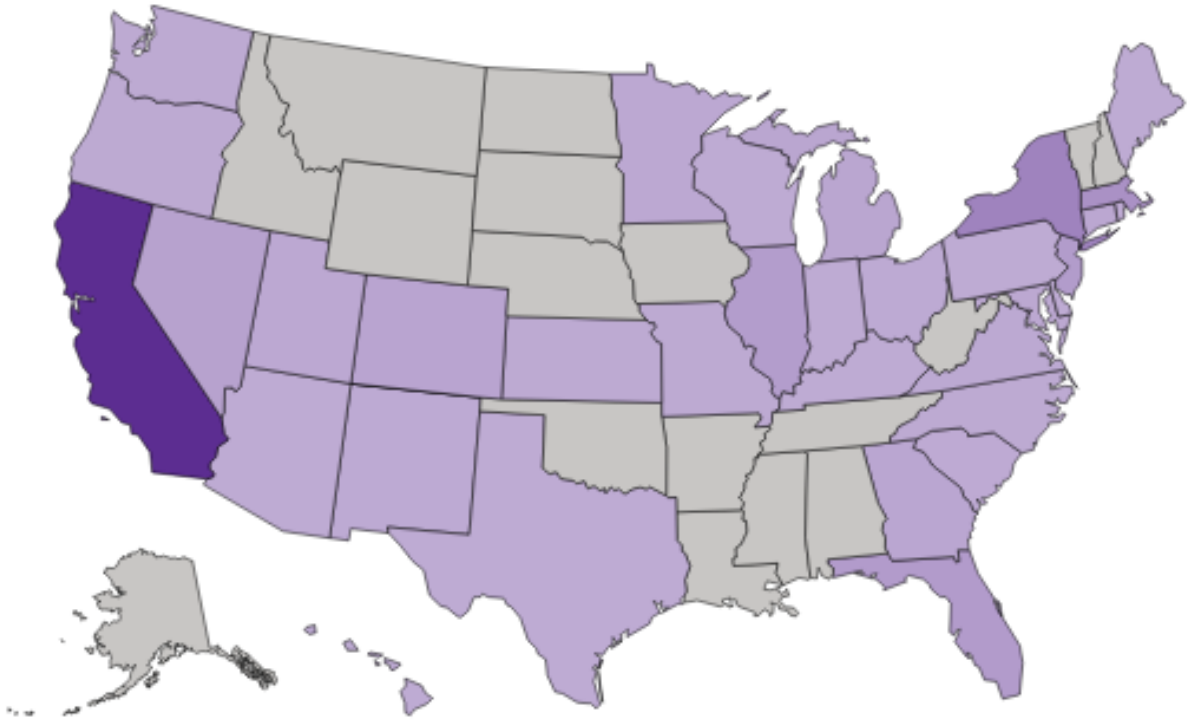
- HPUC directed HECO to file a 10-year comprehensive strategic plan
- Well received by stakeholders & HPUC but…
- HPUC continuing to direct HECO



# States converging on utility role & priorities

- Require utilities to develop a comprehensive transportation electrification plan
- Utility investments at customer site primarily make-ready and charger rebate
- Most utility owned/operated chargers in equity communities and other-hard-to-serve segments, or sometimes as an option for the host
- Emerging appreciation of MHDV challenges
- You’re not a utility just ‘cuz you charge vehicles

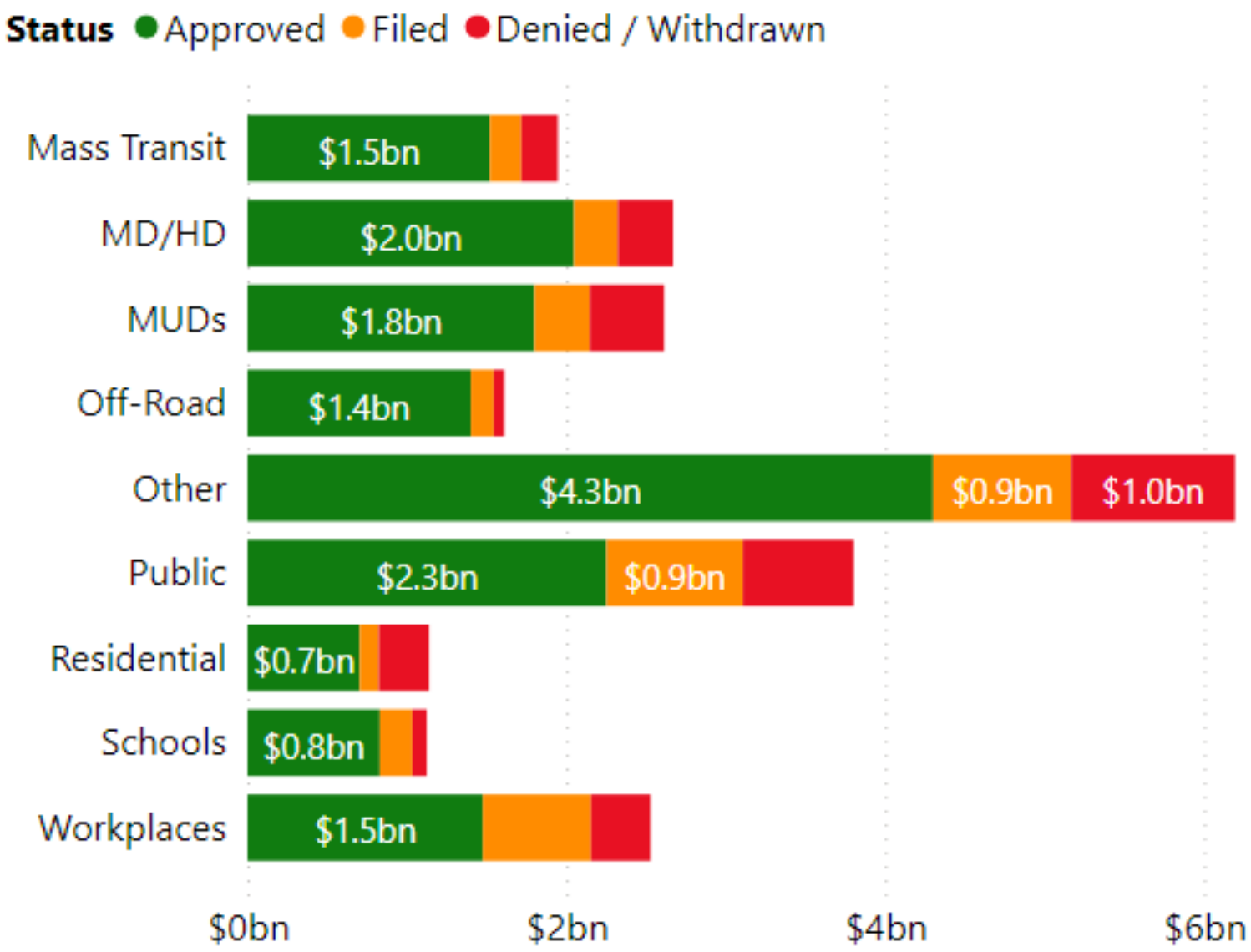
# Nearly $6B approved for utility EV programs



**Summary Statistics**

| | | | |
|---|---|---|---|
| $5.8bn | 35 | 59 | 161 |
| Investment | States | Utilities | Filings |
| 9,577 | 400K | 25K | 93 |
| DCFC Ports | L2 Charging Stations | MD/HD Charging Stations | Off-Road Charging Stations |

# Approval by Target Use



# $1.9 B in Underserved Community Investment

| State | Total Investment | Underserved Community Investment |
|---|---|---|
| Alaska | $0 | |
| Arizona | $1,495,000 | |
| California | $2,961,111,806 | $1,512,582,704 |
| Colorado | $115,829,409 | $21,920,500 |
| Connecticut | $73,657,123 | $970,000 |
| Delaware | $583,500 | $30,000 |
| District of Columbia | $4,319,300 | |
| Florida | $278,200,000 | $1,035,000 |
| Georgia | $82,500,000 | $5,850,000 |
| Hawaii | $6,515,000 | |
| Illinois | $248,044,447 | $115,937,524 |
| Indiana | $7,000,000 | $690,000 |
| Kansas | $19,450,000 | $1,600,000 |
| Kentucky | $500,000 | |
| Maine | $240,000 | |
| Maryland | $55,044,767 | $460,727 |
| Massachusetts | $460,119,465 | $119,370,850 |
| Michigan | $84,959,333 | $3,486,000 |
| Minnesota | $46,479,245 | |
| Missouri | $18,187,500 | $400,000 |
| Nevada | $165,356,659 | |
| New Jersey | $265,739,366 | $1,256,250 |
| New Mexico | $12,855,000 | $2,399,000 |
| New York | $711,507,097 | $98,096,724 |
| North Carolina | $24,714,675 | |
| Ohio | $16,100,000 | $370,000 |
| Oregon | $19,021,000 | $2,735,900 |
| Pennsylvania | $7,989,480 | $263,543 |
| Rhode Island | $11,175,136 | |
| South Carolina | $8,830,000 | |
| Texas | $0 | |
| Utah | $49,500,000 | |
| Virginia | $39,479,565 | $1,968,421 |
| Washington | $25,933,875 | $650,000 |
| Wisconsin | $0 | |
| **Total** | **$5,822,437,748** | **$1,892,073,142** |

# *Why do we need legislation?*

- Provide impetus for regulators to authorize level of utility spend needed to support EV adoption consistent with policy goals
  - Half the $5.8B of approved investments was approved in CA per SB 350
  - On a per capita basis-- $/customer/year, CO and NV are the biggest
- Some state energy regulators need legislative cover
- Some … genuinely lack jurisdiction or may otherwise be "handcuffed."
- Some … want express authority before they act
- Some … won't act without direction

# Draft Model Legislation

# Model State Policies to Stretch Federal Investments

- Make-Ready Infrastructure Rules
- Utility Programs & Investments
- Rates Designed for EV Charging
- Getting it Built & Energized

# A series of bills have defined IOUs' role in supporting TE

- IOU role in supporting TE:
  - *California (SB 350, 2015)*
  - *Oregon (SB 1547, 2016)*
  - *Colorado (SB 77, 2019)*
  - *New Mexico (HB 521, 2019)*
  - *Nevada (SB 448, 2021)*
  - *Illinois (SB2408, 2021)*
- Most require utility to develop and regularly submit a plan, and require regulators to approve if it meets certain criteria

# New Mexico House Bill 521

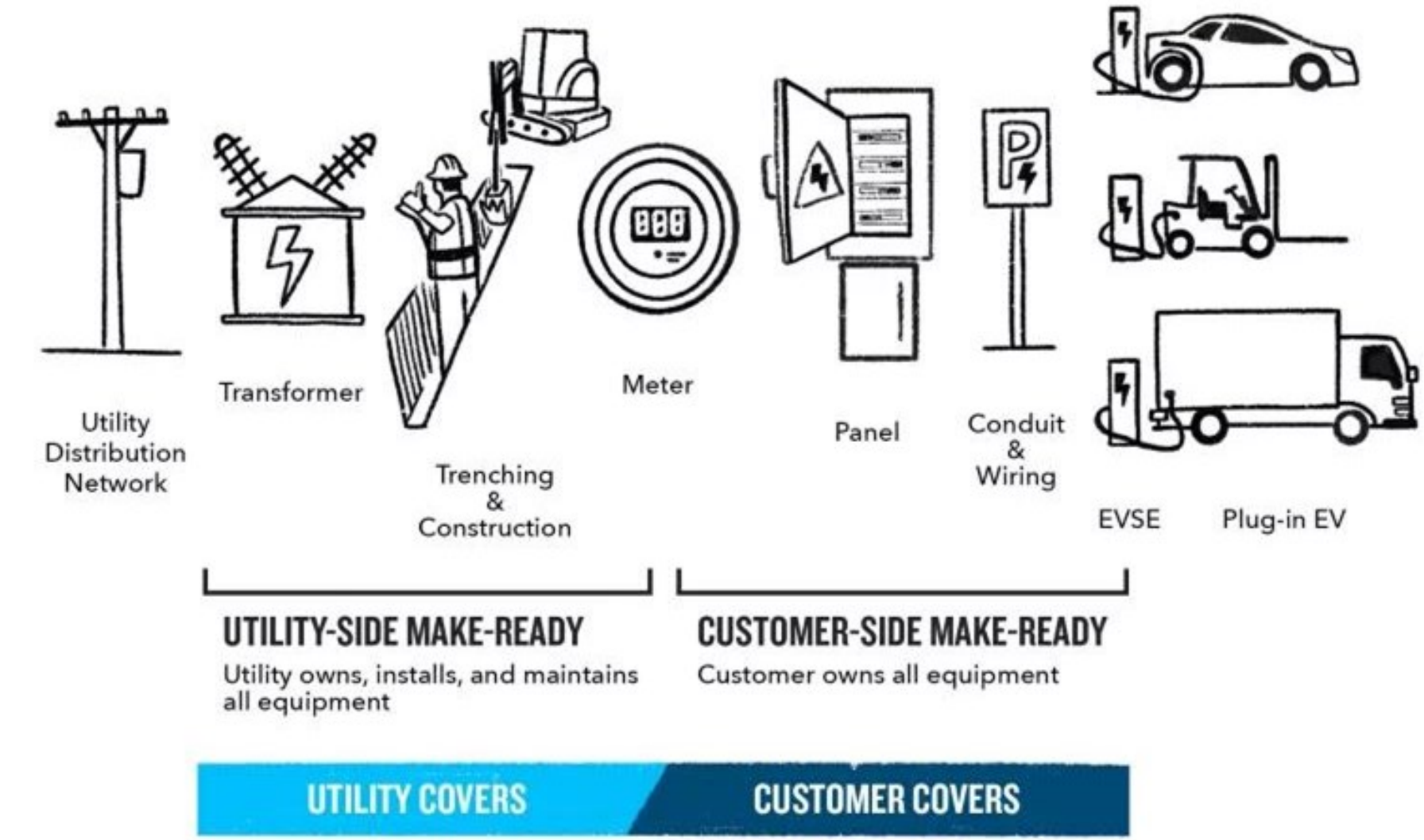
**Senator Pat Woods - (R)**

**District:** 7
**County:** Curry, Quay & Union
**Service:** Senator since 2012
**Occupation:**
**Email:** pat.woods@nmlegis.gov
**Extra Information:**

**Representative Angelica Rubio - (D)**

**District:** 35
**County:** Doña Ana
**Service:** Representative since 2017
**Occupation:** Nonprofit Consultant
**Email:** angelica.rubio@nmlegis.gov
**Extra Information:**

# California Assembly Bill 841



# Next Steps

- Complementary Policies Working Group Meeting #2
  - EV Rates
  - Getting it Energized
- Summit: Sept. 19th
- Develop collateral
  - Gather and curate existing materials
  - New white paper on Energizing and Getting it Built