



**SEE A**  
SOUTHEAST ENERGY EFFICIENCY ALLIANCE

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# Southeast in a Time of Crisis: Impacts and Innovations

May 20, 2020, 2 p.m.

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# Housekeeping

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## WELCOME!


- All attendees will be automatically placed on mute throughout the webinar.

## Q&A

- Please submit all questions using the question feature.
- Questions will be addressed at the end of the webinar
- If we don't get to your question today, we'll respond on our COVID-19 Resources page.

## RESOURCES

- Following the webinar, we will share the slides and recording on our website and send them via email to all registrants, even if they weren't able to attend.



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The Southeast Efficient Energy Alliance (SEEA) promotes energy efficiency as a catalyst for economic growth, workforce development and energy security across 11 southeastern states including Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee and Virginia.

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# Areas of Work

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Energy Efficiency  
Policy



Built  
Environment



Energy Efficient  
Transportation



Regional  
Investments

# Why Energy Efficiency Matters Now

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## OUR ROLE

SEEA works to move the energy sector forward so that all people in the Southeast can live and work in healthy and resilient buildings, utilize clean and affordable transportation, and thrive in a robust and equitable economy.



### Energy-Efficient Policy

Supports decision-makers at the state, local, and utility levels by identifying energy-efficient solutions to fit stakeholder needs



### Built Environment

Empowers partners to strengthen energy and building codes to increase access to healthy and resilient housing



### Energy-Efficient Transportation

Advances policies and programs that expand efficient transportation options, drive innovation, and improve air quality



### Diversity & Equity

Pursues equitable energy solutions and works to leverage the collective knowledge and strength of the Southeast

# Our Values

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## **Take Initiative**

We take responsibility for realizing a better quality of life in the Southeast.



## **Earn Trust**

We pursue our work with benevolence, competence, and reliability.

## **Value Others**

We seek, respect, and promote diverse perspectives.



## **Pursue Equitable Solutions**

We recognize, acknowledge, and account for a history of prejudice and inequality in Southeastern communities and the role it plays in the issues we address.

# Our COVID-19 Response Strategy

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**Q2 – Q3**  
Gather Data and  
Assess Impact

Engage with our members, partner organizations, and other stakeholders to assess, track, and report on how the sector is being impacted.

**Q3 – Q4**  
Protect the Most  
Vulnerable

Raise awareness of growing energy debt crisis and identify socially responsible strategies to address it.

**Q4 – 2021**  
Rebuild for  
Resilience

Support state and federal efforts to rebuild economies through effective energy optimization strategies.

# Today's Presenters

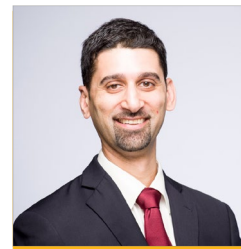
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**Mandy Mahoney**  
*President*



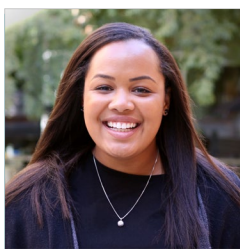
**Claudette Ayanaba**  
*Policy Manager*



**Cyrus Bhedwar**  
*Director of Policy*



**Anne Blair**  
*Director of Energy  
Efficient  
Transportation*



**Maggie Kelley**  
*Built Environment  
Project Manager*



**Will Bryan**  
*Built Environment  
Project Manager*



**Maddy Clowse**  
*Energy Efficient  
Transportation  
Program Intern*



**Sarah Burgher**  
*Communications  
Manager*



**Emme Luck**  
*Policy Associate*



# Today's Agenda

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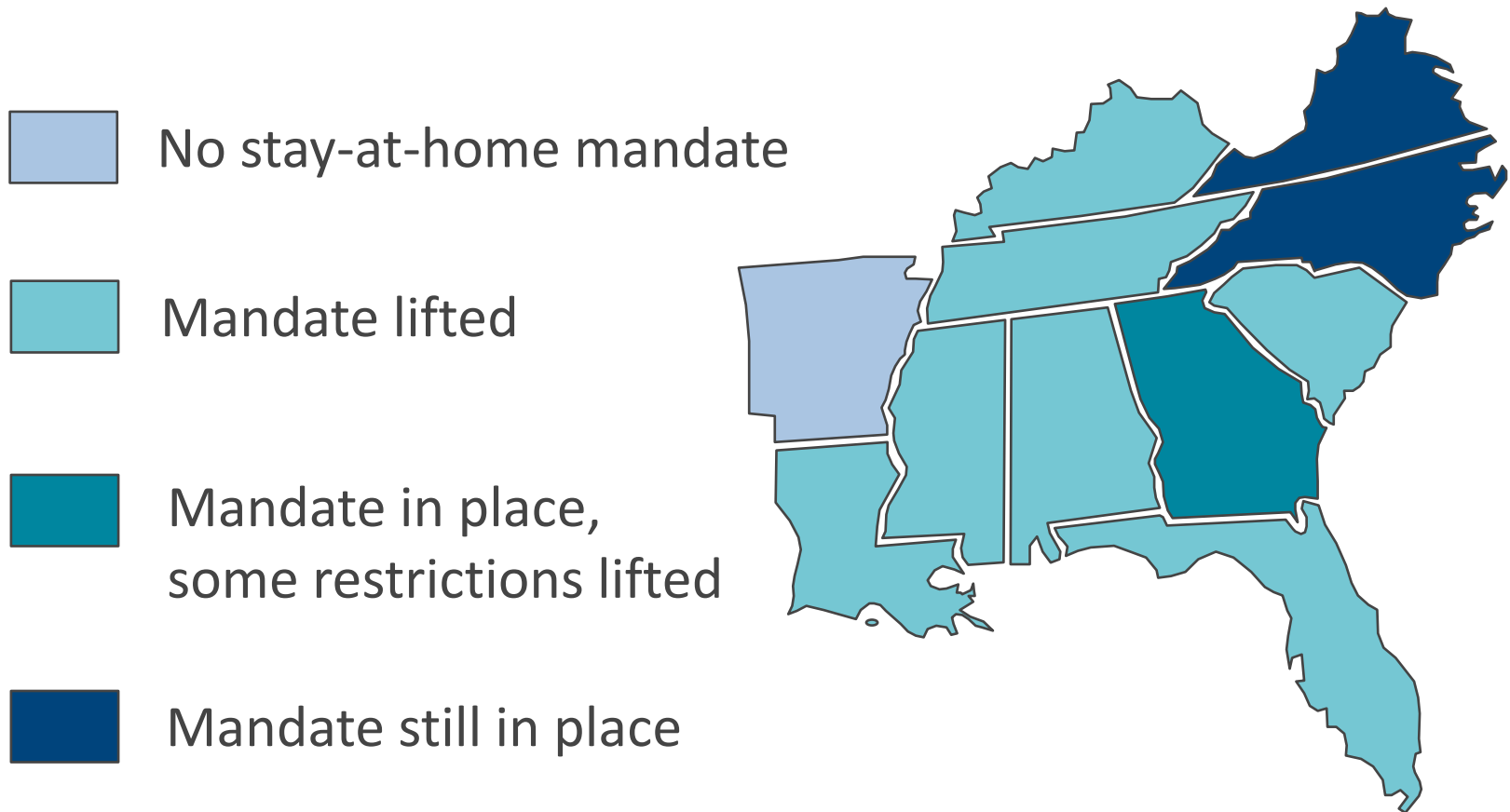
- I. REGIONAL POLICY SUMMARY
- II. IMPACTS: UTILITY PROGRAMS
- III. IMPACTS: ENERGY EFFICIENCY & RELATED INDUSTRIES
- IV. ENERGY INSECURITY
- V. RESOURCES & OPPORTUNITIES
- VI. Q&A

Who is our audience  
today?

# Regional Policy Summary

Claudette Ayanaba  
*Policy Manager*

# Stay-at-Home Orders



# Legislative Sessions

Original Session Dates		Changes
<b>AL</b>	Feb. 4-May 19	Reconvened May 4
<b>AR</b>	Apr. 8-May 7	Adjourned sine die April 24
<b>FL</b>	Jan. 14-Mar. 13	Adjourned sine die March 19
<b>GA</b>	Jan. 13-Mar. 27	Suspended until June 11
<b>KY</b>	Jan. 1-Apr. 15	Reconvened April 14
<b>LA</b>	Mar. 9-Jun. 1	Reconvened May 4
<b>MI</b>	Jan. 7-Mar. 10	Reconvened May 7
<b>NC</b>	May 13-Jun. 3	Convened April 29
<b>SC</b>	Jan. 14-May 14	Reconvened May 12
<b>TN</b>	Jan. 14-Apr. 22	Recess until June 1
<b>VA</b>	Jan. 8-Mar. 7	Adjourned sine die March 12

# State Legislation

Pending and Passed Notable Legislation

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## Pending



### **Georgia**

[HR 1430](#)

[HB 732](#)



### **South Carolina**

[H 5335](#)

## Passed

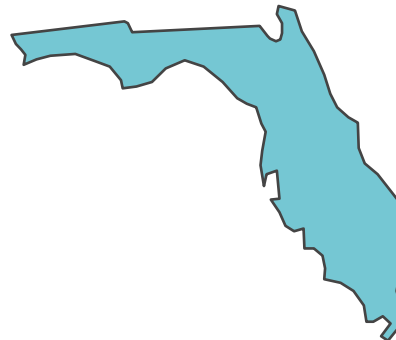


### **Virginia**

[Clean Economy Act](#)

[Clean Energy and Community](#)

[Flood Preparedness Act](#)



### **Florida**

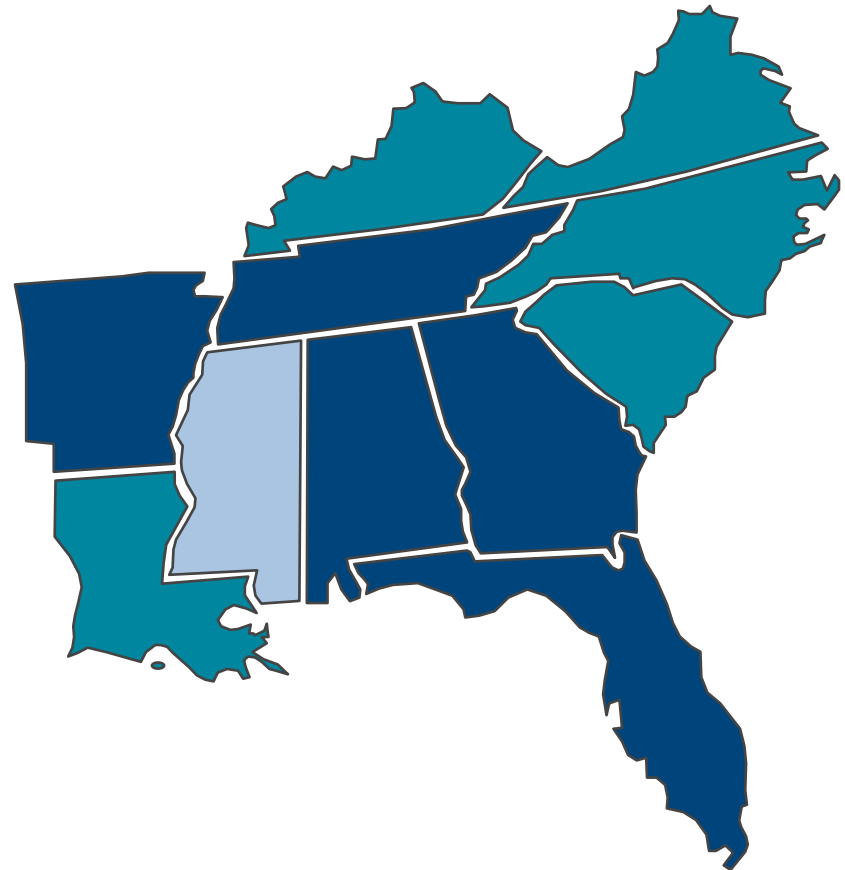
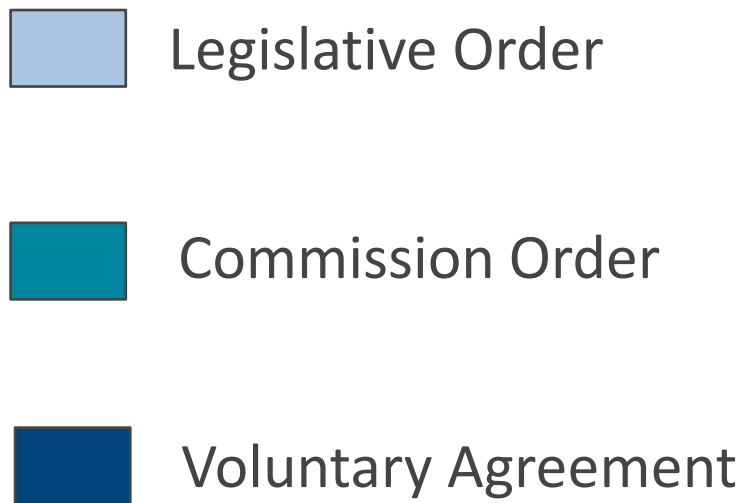
[HB 7018](#)

[EV Roadmap](#)

[VW Funding](#)

# Utility Disconnection Suspensions

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# Utility Disconnection Suspensions

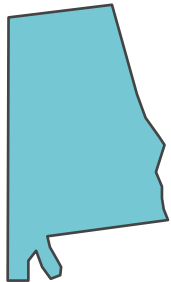
	Announcement Date	Lift Date	Notes & Resources
<b>AL</b>	March 17	Utility Led	<a href="#">APSC Statement</a>
<b>AR</b>	Unknown	Lift of State of Emergency	<a href="#">APSC Info. Page</a>
<b>FL</b>	Unknown	Utility Led	<a href="#">FPSC Website</a>
<b>GA</b>	Unknown	Utility Led	<a href="#">GPSC Info. Page</a>
<b>KY</b>	March 16	Commission Led	<a href="#">KPSC Order</a>
<b>LA</b>	March 13	Phase II of OUAA*	<a href="#">LPSC Statement</a>
<b>MS</b>	March 15	60 days	<a href="#">MPSC Order</a>
<b>NC</b>	March 19	Lift of State of Emergency	<a href="#">NCUC Order</a>
<b>SC</b>	March 19	Lift of State of Emergency	<a href="#">SCPSC Order</a>
<b>TN</b>	March 26	Lift of State of Emergency	<a href="#">TVA Statement</a>
<b>VA</b>	March 16/April 9	60 day (30-day extension)	<a href="#">SCC Order</a>



# Public Service Commissioners

Upcoming elections and appointments

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## Alabama

Twinkle Cavanaugh, *Chair*

- Public Election
- Scheduled for November



## Georgia

Lauren “Bubba” McDonald  
Jason Shaw

- Public Election
- Scheduled for November



## South Carolina

Comer Randall, *Chair*  
Swain Whitfield  
Gordon Hamilton  
Butch Howard

- Elected by Legislature
- Expected in the fall



## Virginia

1 Vacancy

- Elected by General Assembly; session ended so anticipated appointment by governor and confirmation by legislature next year

# Impacts: Utility Programs

Cyrus Bhedwar  
*Director of Policy*

# Electric Load



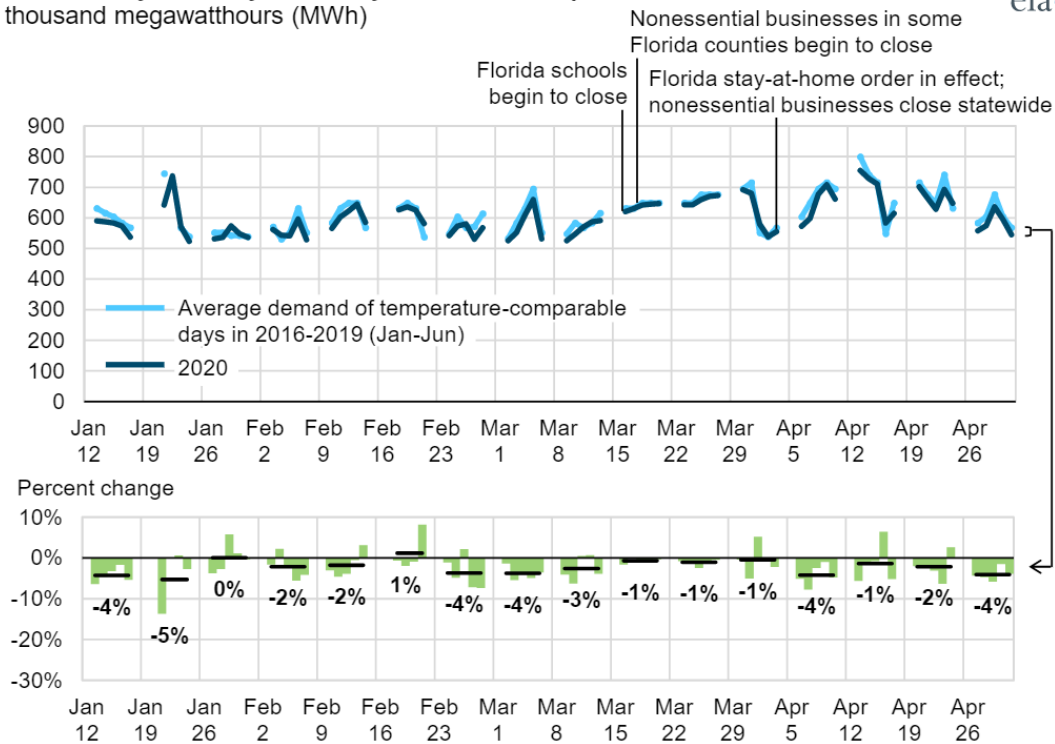
RESIDENTIAL USE



COMMERCIAL & INDUSTRIAL USE

**Florida daily weekday electricity demand, Jan-Apr 2020**

thousand megawatthours (MWh)



Source: U.S. Energy Information Administration, [Hourly Electric Grid Monitor](#); National Oceanic and Atmospheric Administration, [Aviation Weather Center](#) and [National Centers for Environmental Information](#)

Note: Temperature shown is the flat average of daily average temperatures in Miami, Orlando, and Tampa in Florida.

# Status of Utility Energy Efficiency Programs



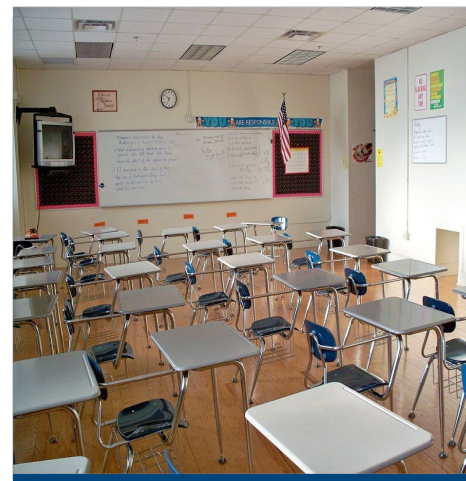
## PAUSED

Residential on-site programs



## ADAPTED

Energy efficiency savings kits

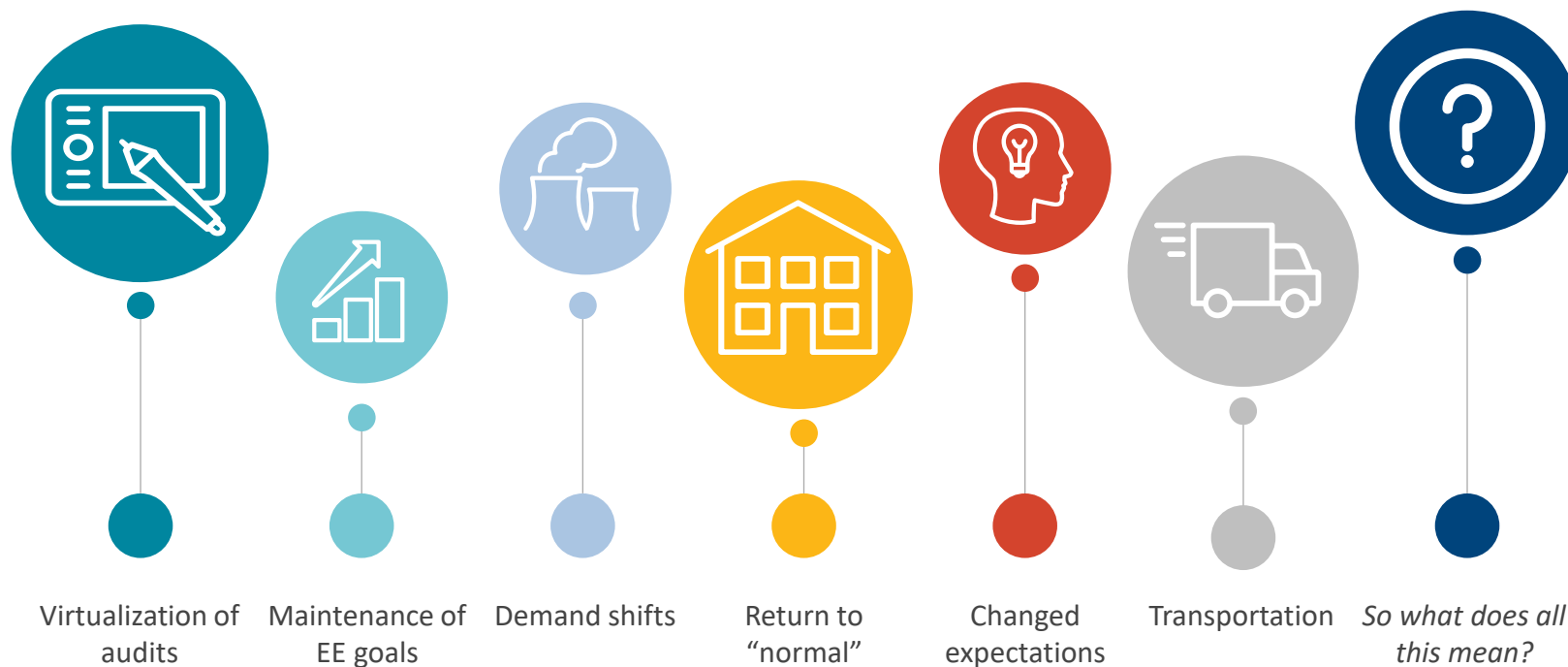


## INNOVATIVE

Targeting empty facilities

# Future of Energy Efficiency Programs

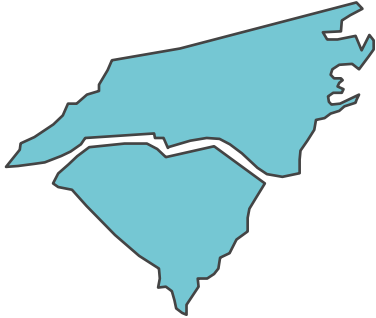
Some questions to consider



# Regulatory Proceedings

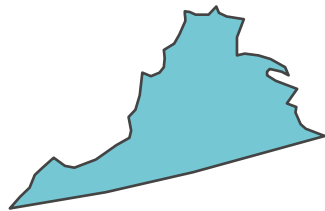
State	Adapted Practices	Resources
AL	Physical attendance discouraged	<a href="#">PSC Press Release</a> and <a href="#">Live Stream</a>
AR	Physical attendance discouraged	<a href="#">PSC COVID-19 Webpage</a>
FL	Offices closed to public	<a href="#">Statement from Chairman</a> and <a href="#">Stream</a>
GA	Hearings broadcasted	<a href="#">PSC YouTube Channel</a>
KY	Offices closed to public	<a href="#">PSC Order</a> and <a href="#">Hearing Archive</a>
LA	Offices closed to public	<a href="#">PSC Website</a>
MS	Meetings held via teleconference	<a href="#">PSC YouTube Channel</a>
NC	Public hearings postponed	<a href="#">NCUC Press Release</a>
SC	Physical attendance suspended	<a href="#">PSC Live Stream</a>
VA	Physical attendance suspended	<a href="#">SCC Webcasting</a>

# Utility Electric Vehicle Program Highlights



## North Carolina & South Carolina

Duke EV Pilot

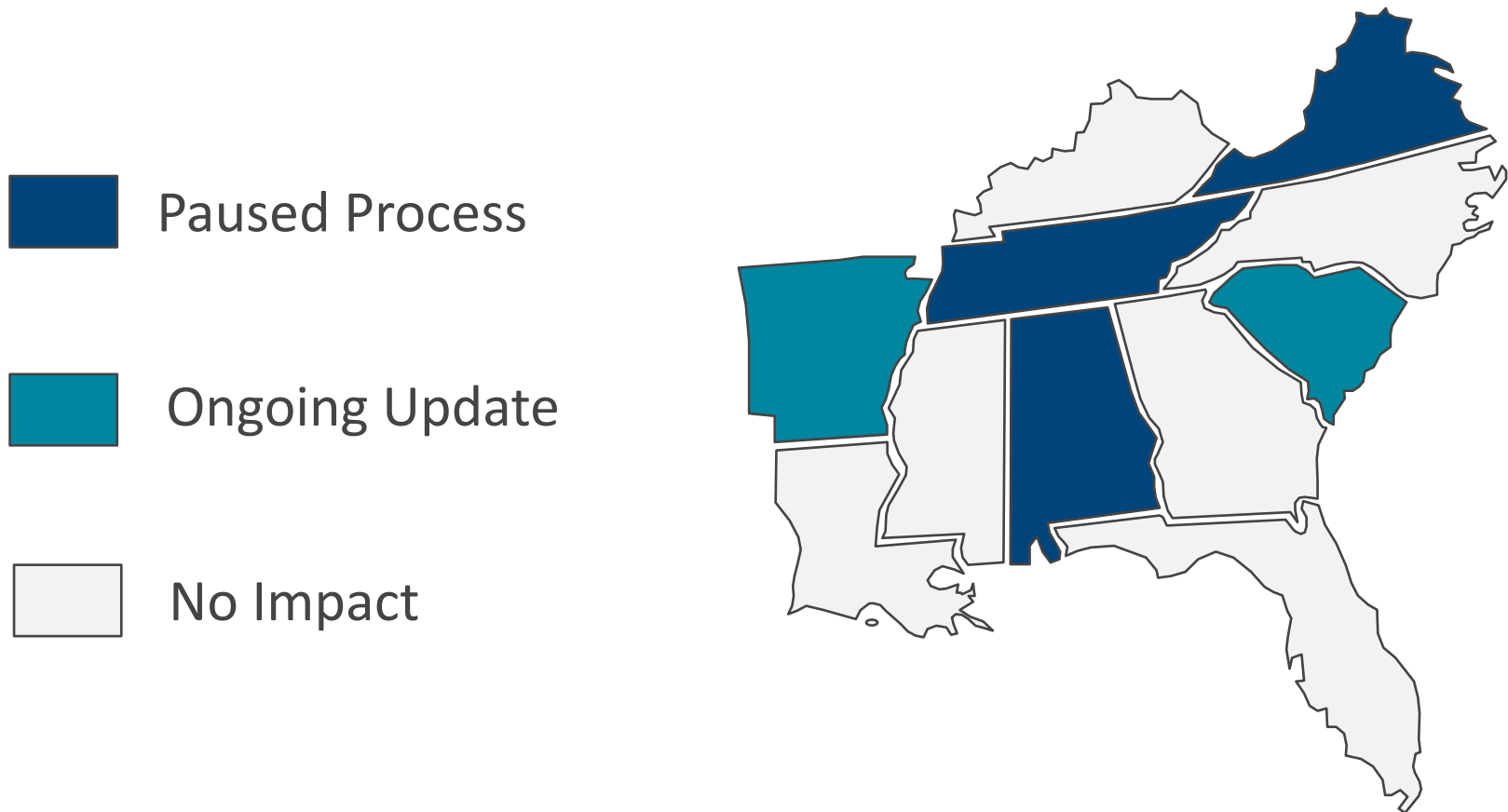


## Virginia

Dominion – Vehicle to Grid  
Transportation Electrification



## Building and Energy Code Adoption





# Impacts: Energy Efficiency & Related Industries

Cyrus Bhedwar, *Director of Policy*

Anne Blair, *Director of Energy Efficient Transportation*

Maggie Kelley, *Built Environment Project Manager*

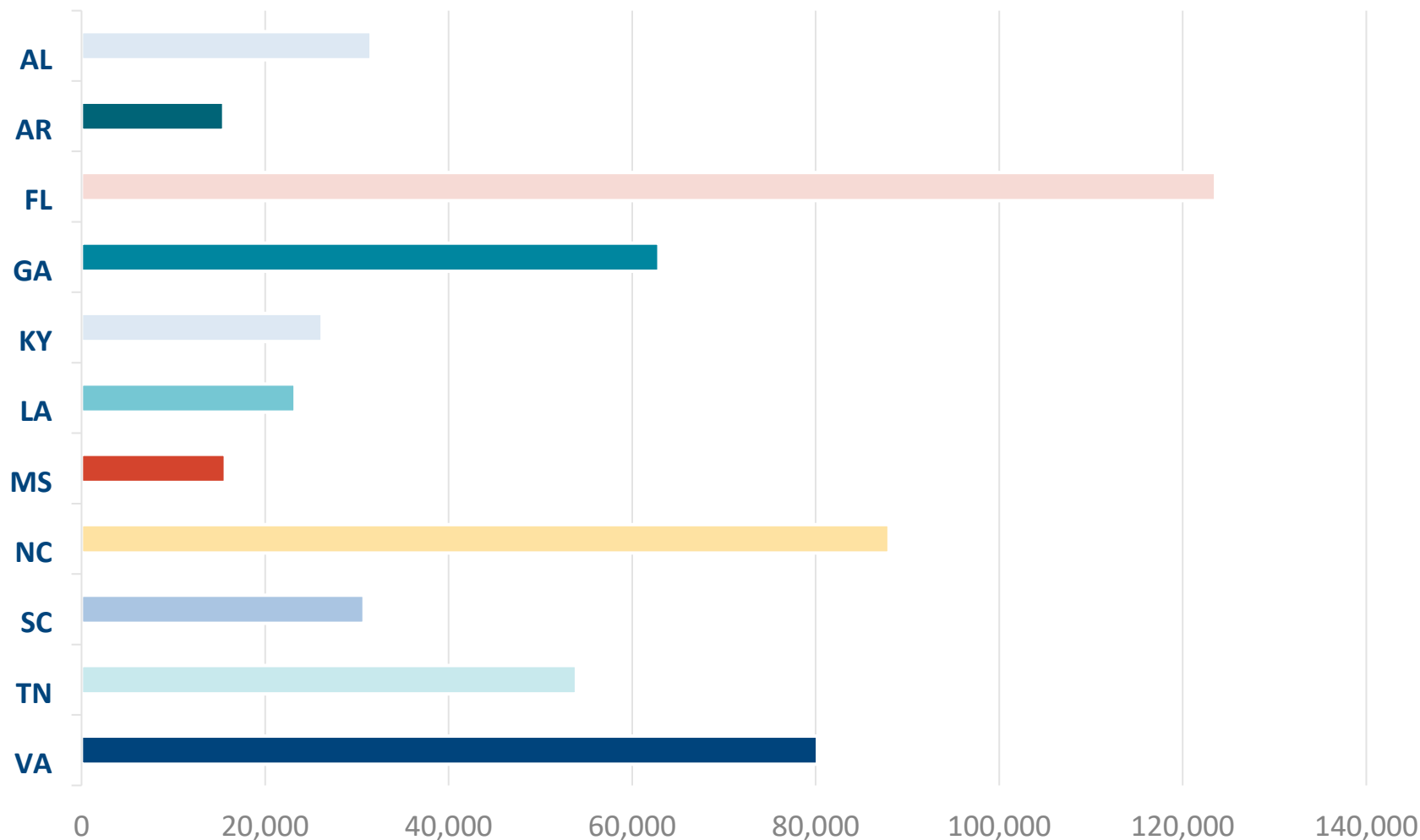
# Energy Efficiency Workforce

- **3.4 million** clean energy workers
- **2.38 million** in energy efficiency
- **242,000** in partial or all-electric vehicle production



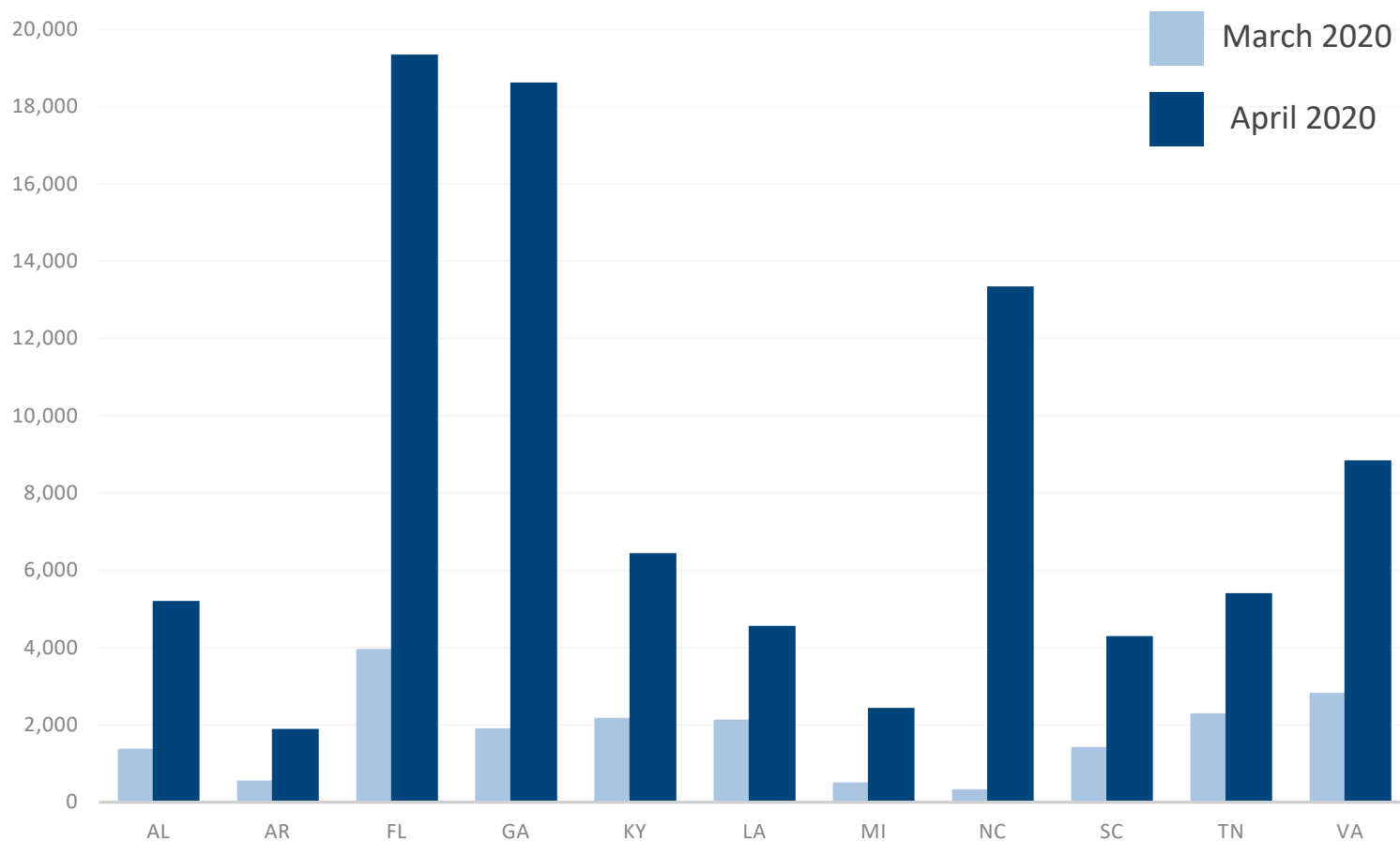
# Southeast Energy Efficiency Workforce

Energy Efficiency Workers by State, 2019



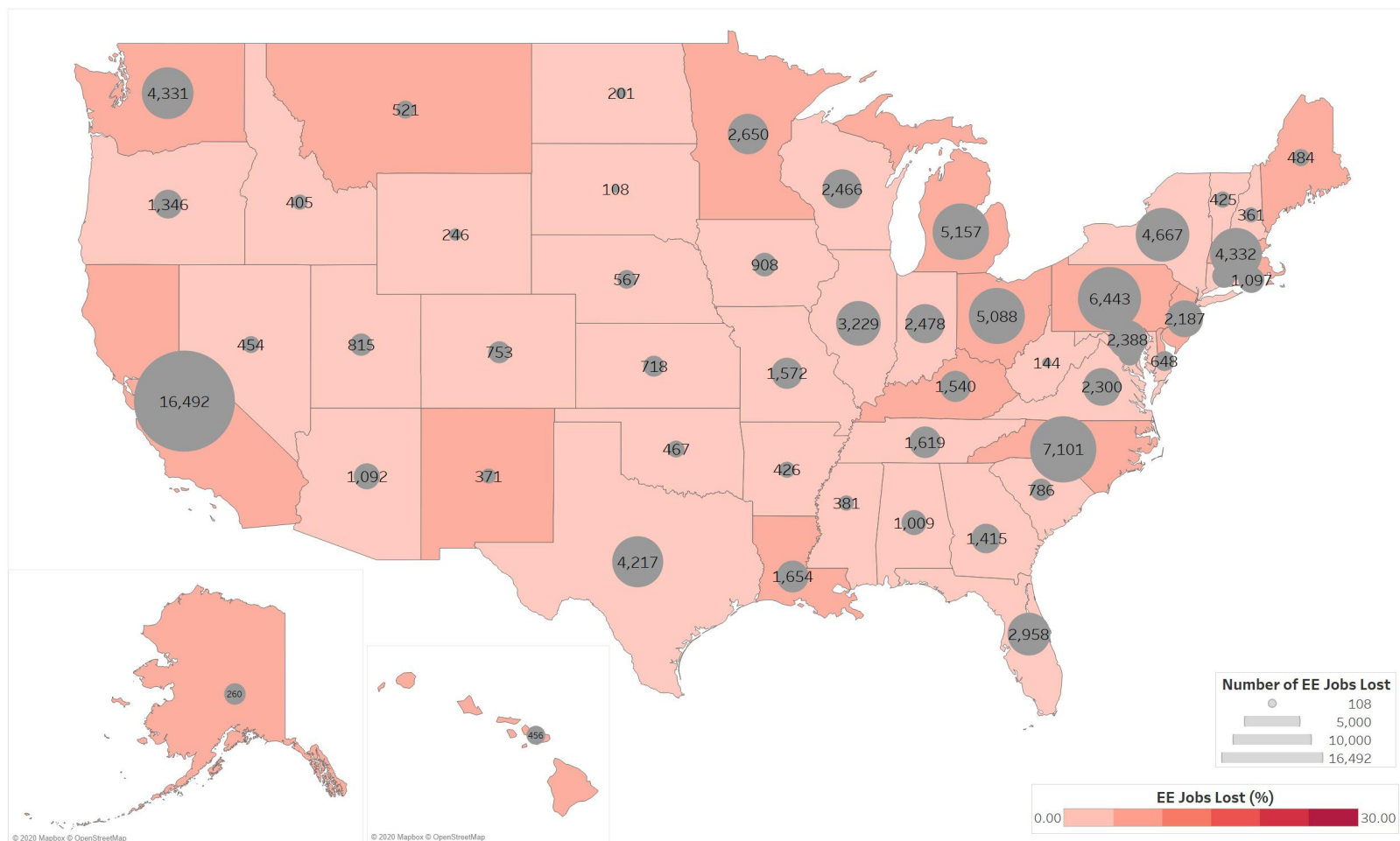
# Southeast Energy Efficiency Workforce Losses

March – April 2020



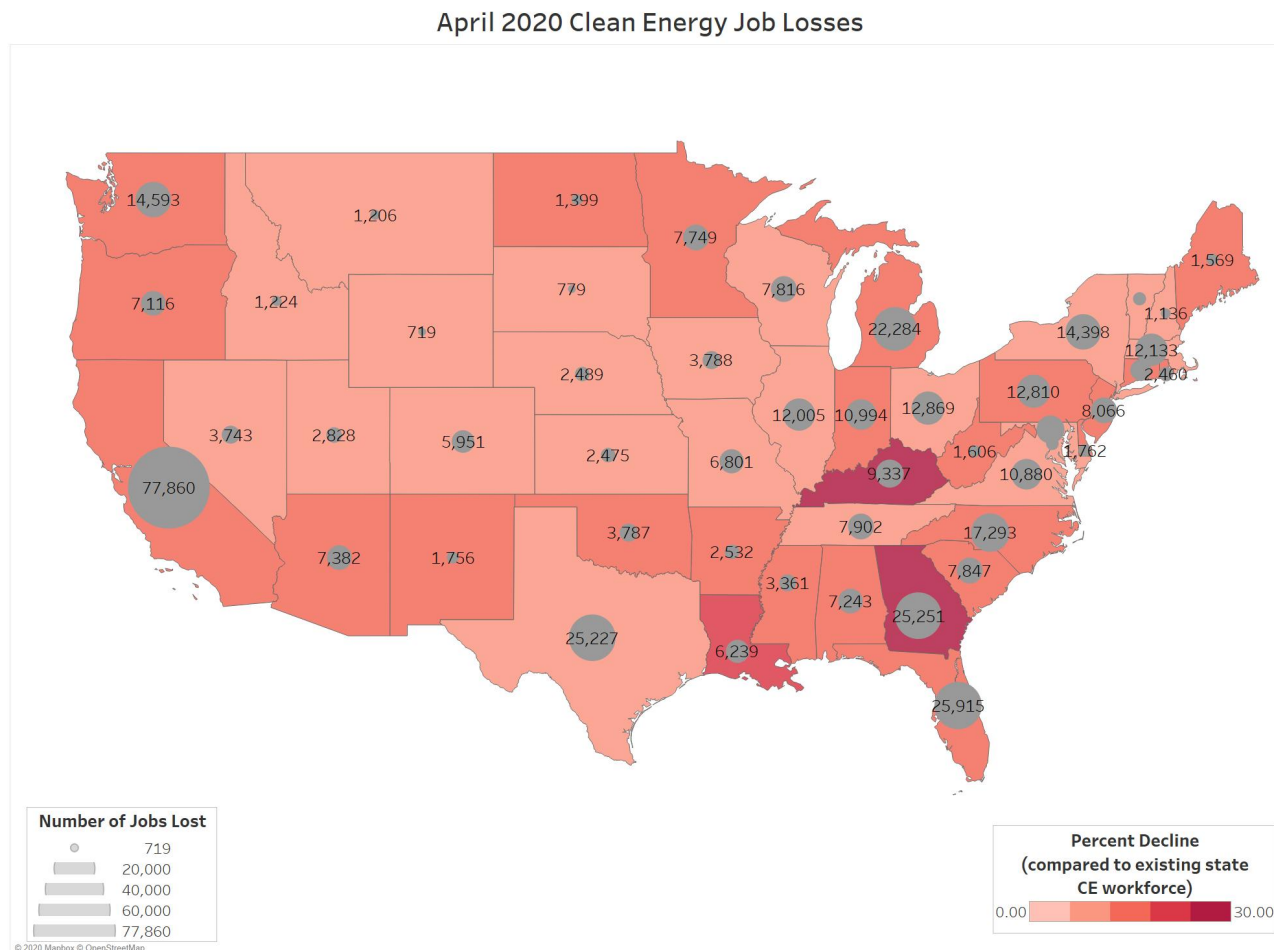
*Clean Energy Employment Initial Impacts from the COVID-19 Economic Crisis, E4 The Future, April 2020*

# Energy Efficiency Job Losses: March 2020



Clean Energy Employment Initial Impacts from the COVID-19 Economic Crisis, E4 The Future, April 2020

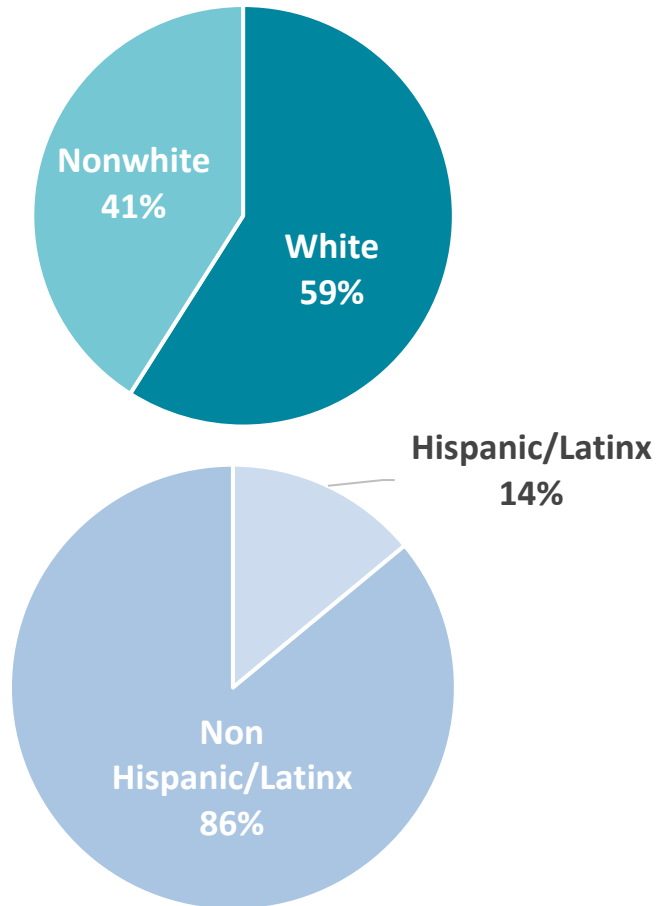
# Energy Efficiency Job Losses: April 2020



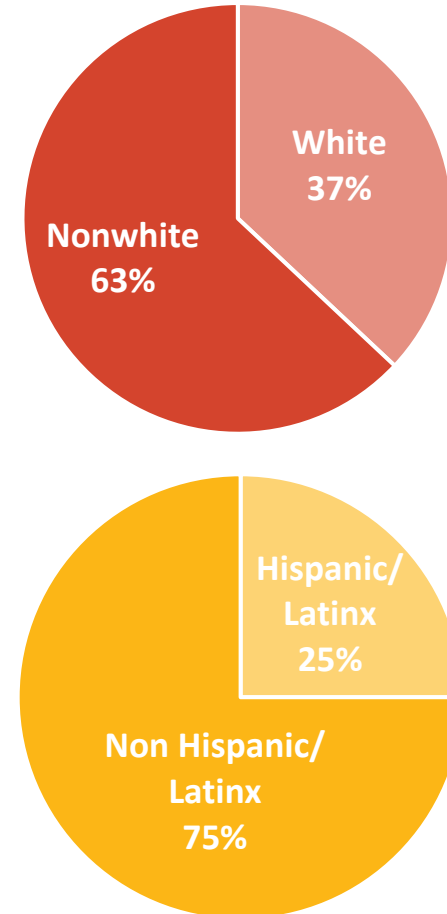
Clean Energy Employment Initial Impacts from the COVID-19 Economic Crisis, E4 The Future, April 2020

# Minority Energy Efficiency Workforce

CLEAN ENERGY WORKFORCE



CLEAN ENERGY JOB LOSSES



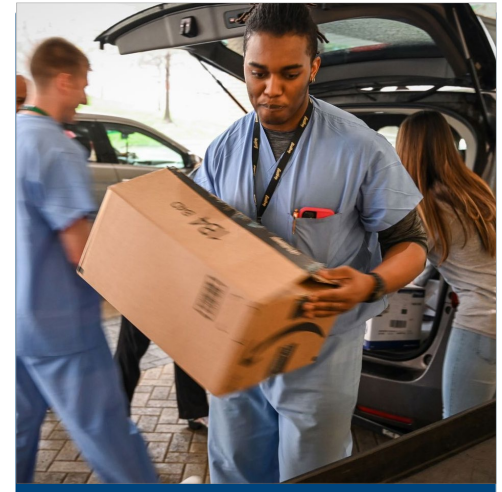
# Response Trends



REMOTE WORK



SELF-INSTALL  
SERVICES



COMMUNITY  
RESPONSE



# Retaining the Workforce



## ADMINISTRATIVE SUPPORT

Pay administrative costs so  
implementers can retain  
employees



## SHIFTING FIELD STAFF

Moving staff to call center  
operations



## INCREASING INCENTIVES

Adjusting budgets to increase  
rebate programs

# Workforce Recovery

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## SAFETY PROTOCOLS & TRAINING

What steps are necessary to restart programs?

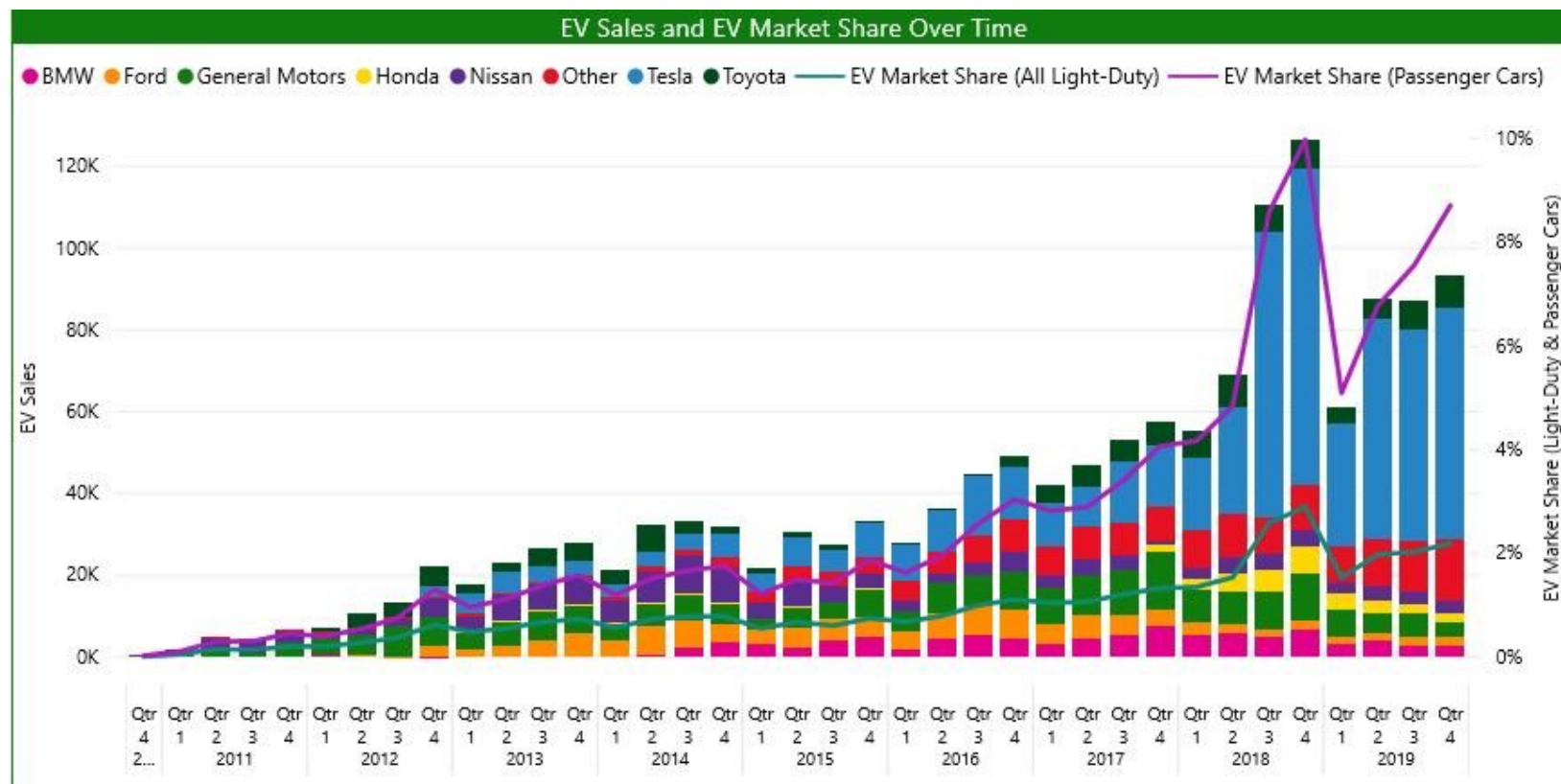


## MODERN WORKFORCE DEVELOPMENT

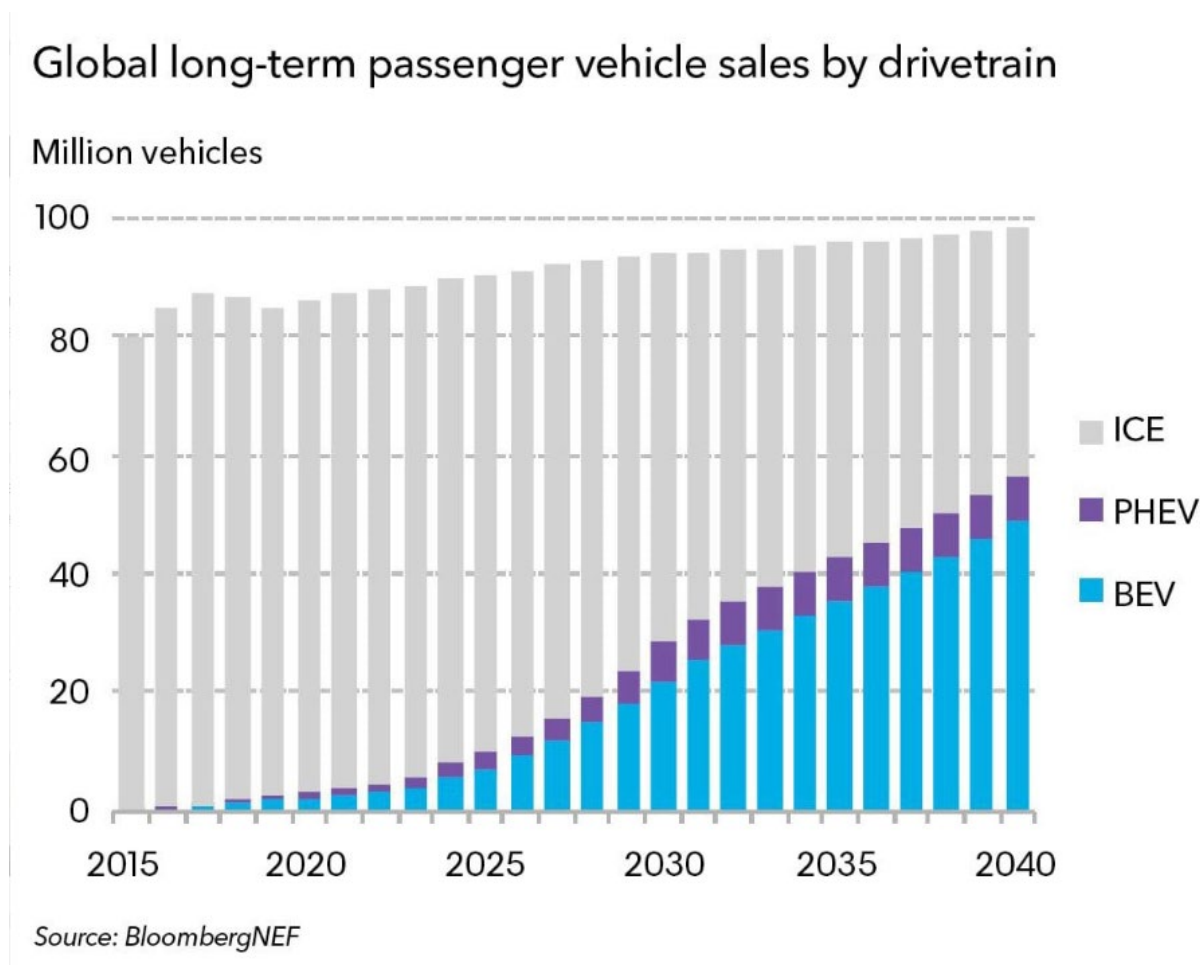
National efforts to modernize and scale energy efficiency training

# Energy-Efficient Transportation Sales

**2 million** EV sales globally in 2018; **63%** increase from 2017



# Energy-Efficient Transportation Forecast



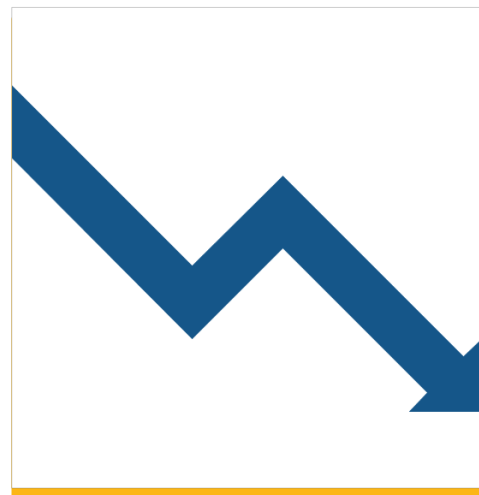
# Energy-Efficient Transportation Industry



## SHUTDOWNS

Tens of thousands of employees furloughed from auto plants

Furloughs throughout the dealership network



## SALES DROP

U.S. auto market down 50% in April

Auto market in China is down 80%; EV market projected to drop 90%

# Electric Vehicle Production

Schedule Delays



Chevy Bolt



Ford Mach-E

Rivian



Hummer





# Manufacturing Opening Dates

Name or Location	Open Date
Manufacturers in Michigan	May 11
General Motors	May 18
Ford	May 18
Fiat	May 18
Daimler	May 18
Volkswagen	May 18
BMW	May 18
Tesla	Approval to open by May 22

# Consumer Behavior



## CHARGING INFRASTRUCTURE

Utilization is down, but  
developments and  
upgrades continue



## CLEANER AIR

**25% - 30%** reduction in  
nitrogen oxide in some  
parts of the country

Exposure to air pollution  
is linked to higher rates  
of death in COVID-19  
cases



# Construction & Related Industries

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## WEATHERIZATION

Deemed unsafe for residents  
and workers



## CONSTRUCTION

Residential construction  
is down 30%

8% drop in housing  
construction  
completion

# Code Compliance

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## TRAINING

Virtual compliance methods  
from permitting to  
inspections

Training for officials, builders,  
and contractors



## NO CONTACT INSPECTIONS

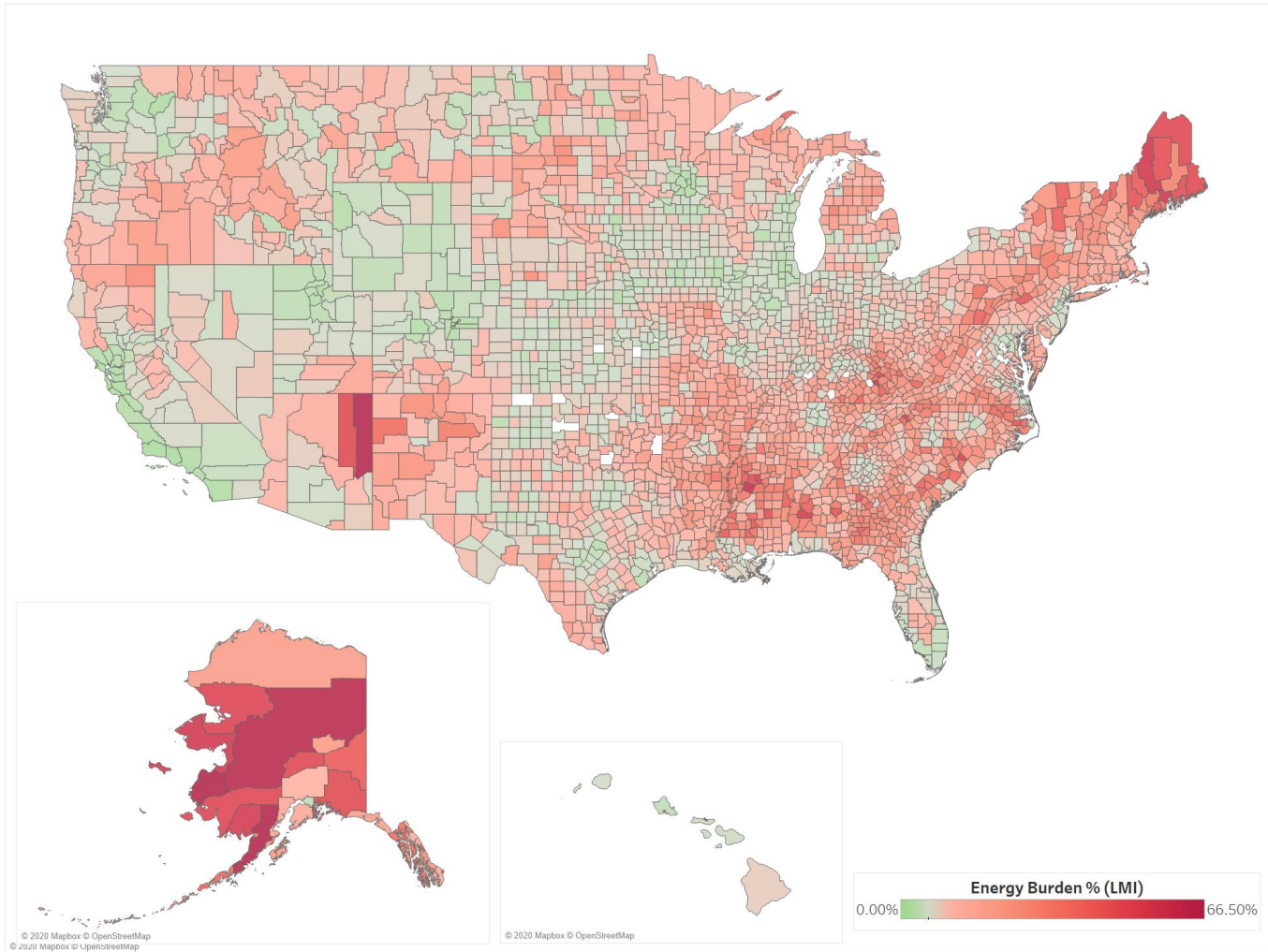
Regional differences in  
adoption

# Energy Insecurity

Will Bryan

*Built Environment Project Manager*

# Average Energy Burden by County



# Energy Insecurity before COVID-19

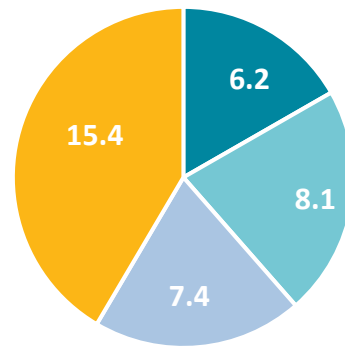
South

West

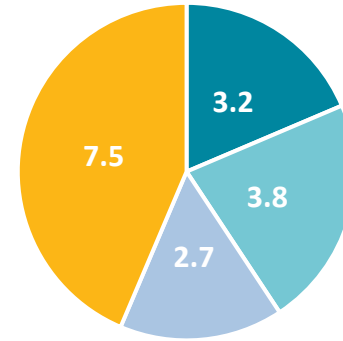
Midwest

Northeast

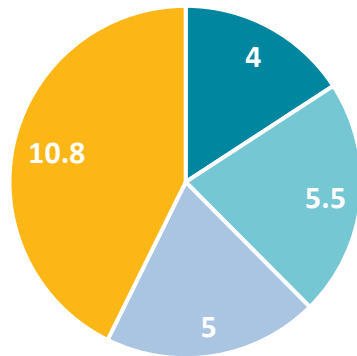
Units: households (in millions)



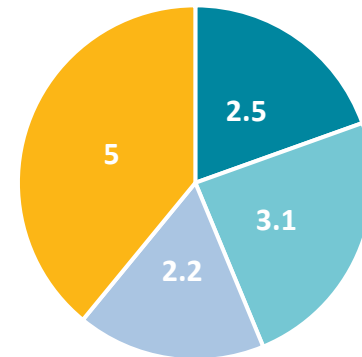
Experience any energy insecurity



Receive disconnect notices

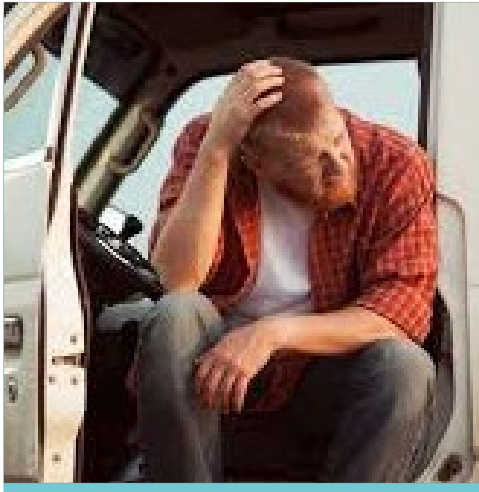


Reduce consumption of food or medicine to pay for energy



Struggle to maintain healthy indoor temperature

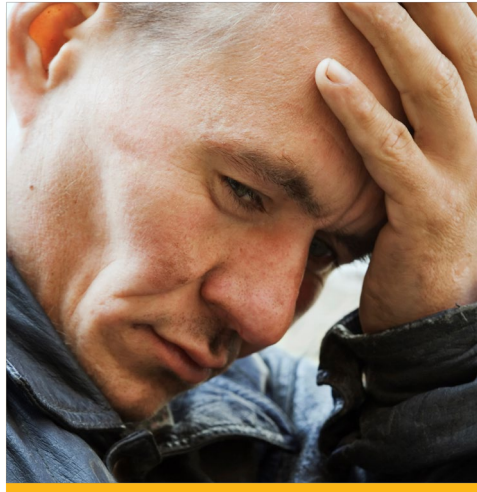
# Job & Income Loss Forecast



## JOB LOSSES

**13%** of adults reported that they lost a job or were furloughed in March or April

**6.7 million** unemployment claims in the Southeast



## INCOME LOSS

**39%** of those making under \$40,000 a year reported being laid off or furloughed during this same period.

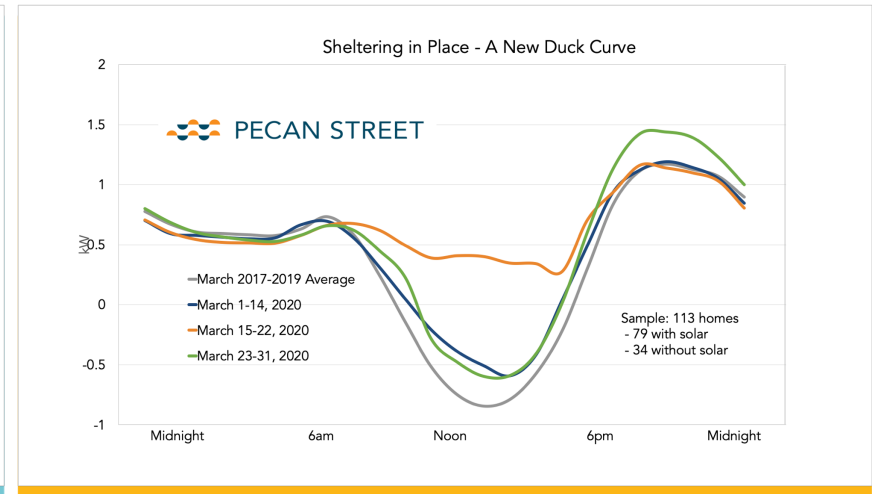
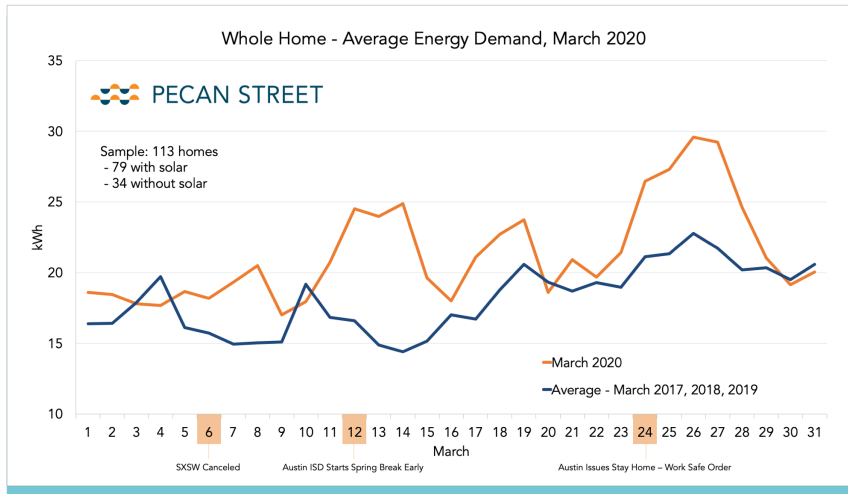


## FINANCIAL SAFETY NET

**53%** of low-income households, **25%** of middle-income households, and **11%** of upper-income households report that they will have difficulty paying bills due to COVID.



# Increased Residential Energy Use & Costs on Consumers

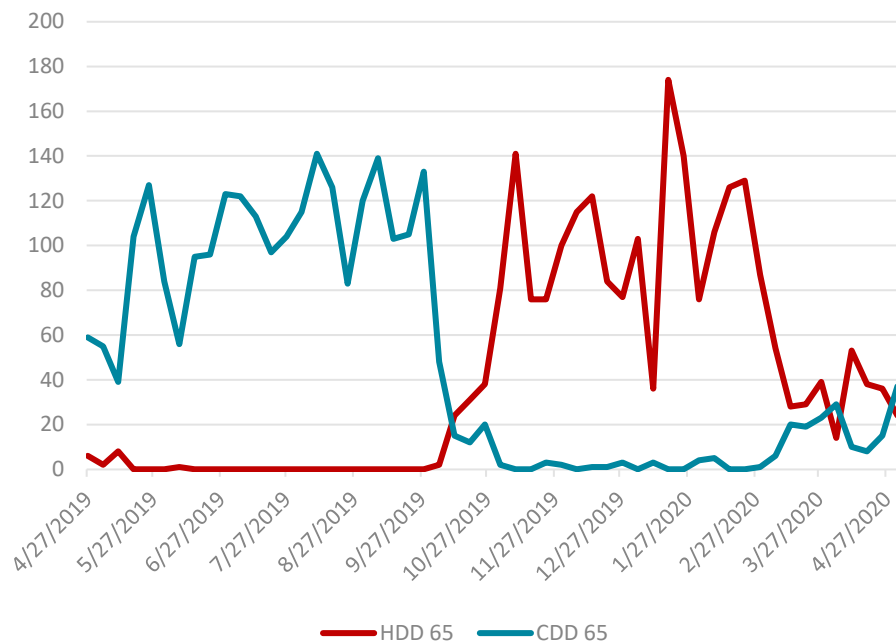


Home energy use could go up by an estimated **20-40%**

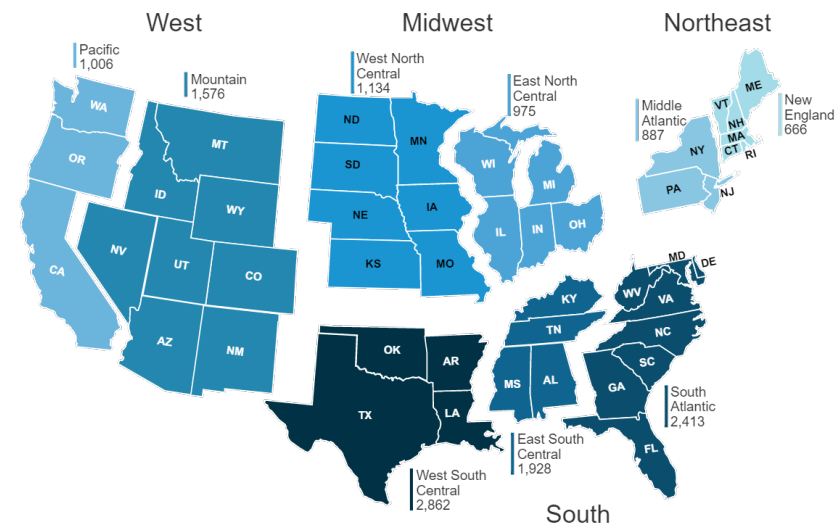
Residential demand is **up 20%** in Austin, TX

Residential demand is **up 15-20%** in CA

# Residential Energy Use & Summer Cooling Loads



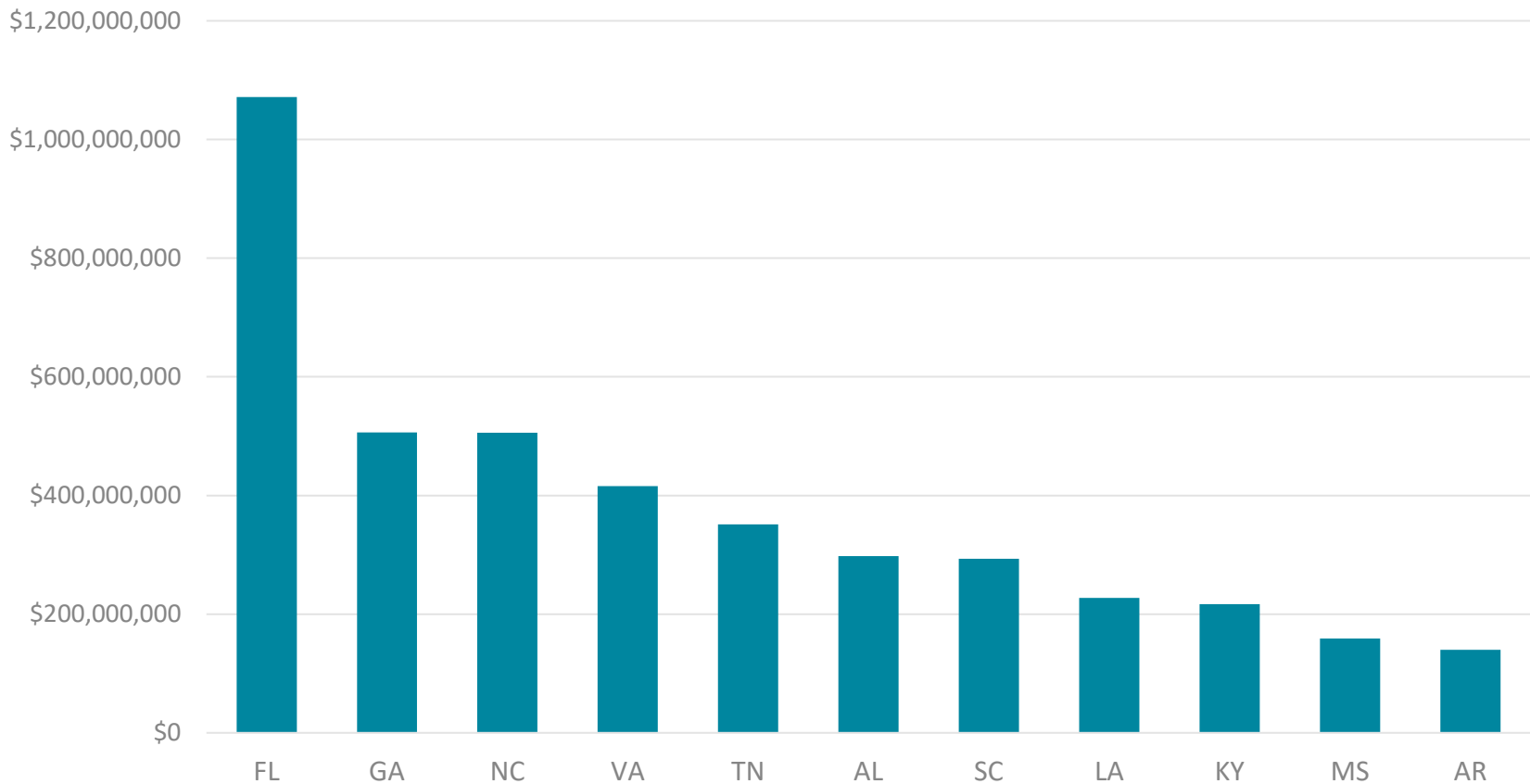
Cooling degree days by Census division in 2018



Note: Population-weighted degree days. Pacific division includes Alaska and Hawaii.  
Source: U.S. Energy Information Administration, *Monthly Energy Review*, Table 1.10, December 2019

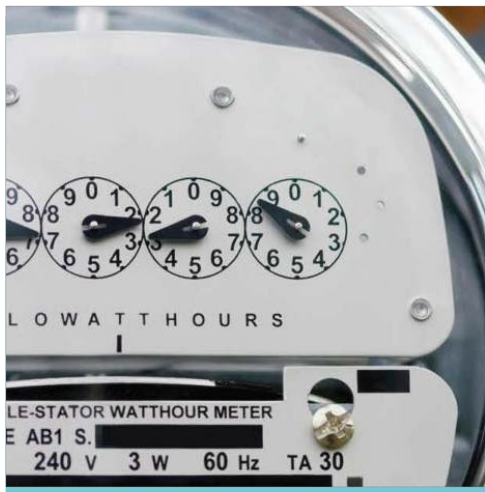


# Debt Accumulation During Shutoff Moratoria



*Based on estimates from the National Consumer Law Center (NCLC)*

# Managing Arrearages



UNIFORM MORATORIA



PAYMENT OPTIONS

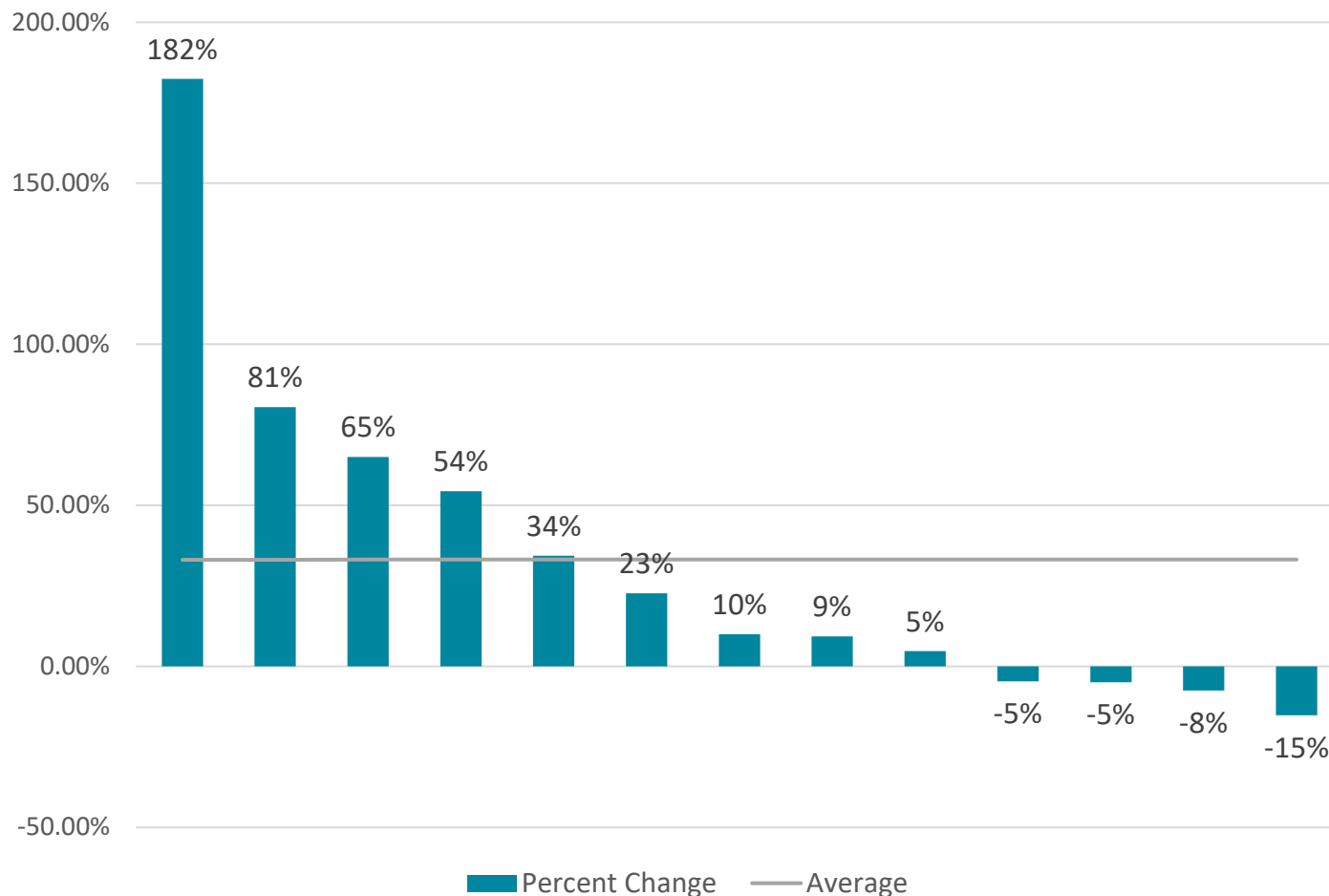
6-month payment plans;  
income-based plans; waived  
fees



INCREASED FUNDING  
FOR LIHEAP

# What is the Full Range of COVID-19 Impacts?

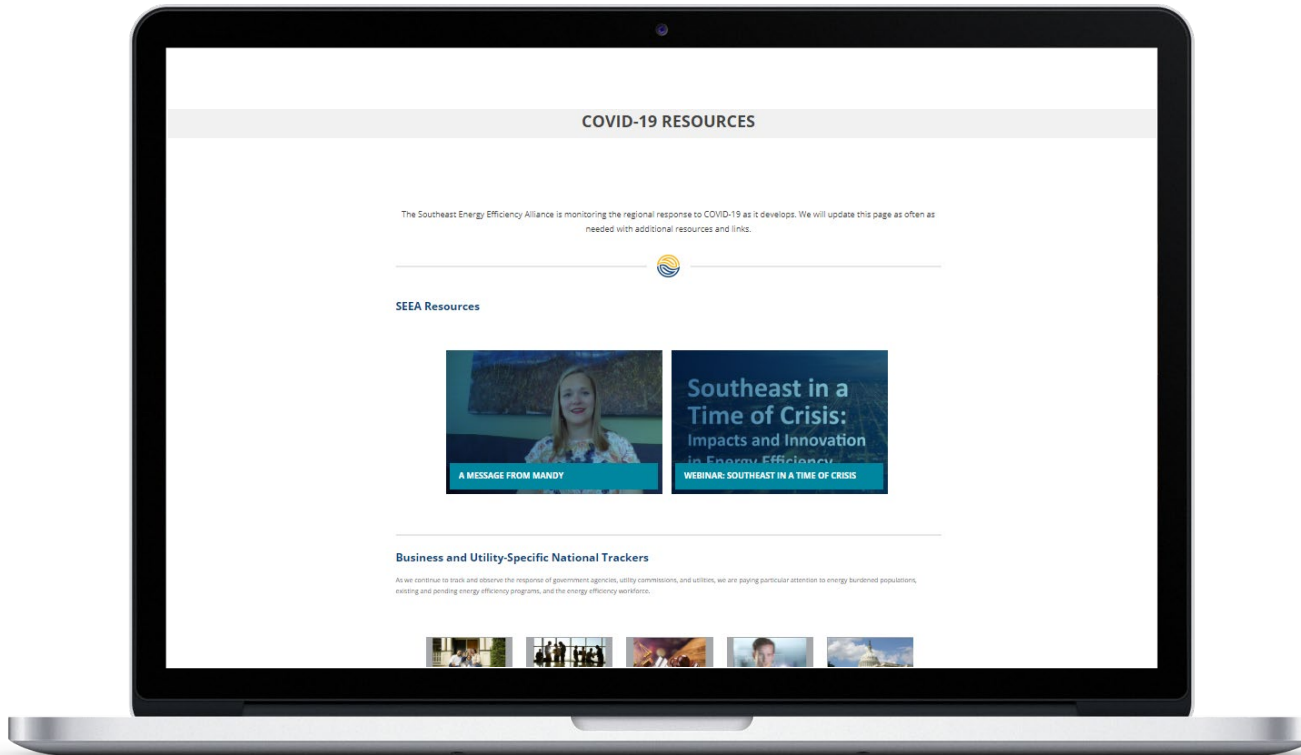
Energy Use Survey of SEEA Staff, Board, & Friends, May 2020



# Resources & Opportunities

Claudette Ayanaba  
*Policy Manager*

# SEEALLIANCE.ORG COVID-19 RESOURCES



## SEEA Resources



Business and Utility-Specific National Trackers



Utility Moratoria on Disconnections and Late Payments



Utility and Small Business Resources



Consumer Advocacy Resources

[seealliance.org/resource-center/covid-19-resources](https://seealliance.org/resource-center/covid-19-resources)

# Opportunities & Calls to Action



Faces of EE  
[Tell your COVID-19 story](#)



HOPE4HOMES  
[Letter to ask Congress to support contractors & homeowners](#)



Blog Post  
[Call to Action](#)



Blog Post  
[Proposals & Initiatives](#)



Recommendations  
[Get America Moving Again \(GAMA\)](#)



Call to Action  
[Letter to Congress regarding a new transportation framework](#)



Webinar  
[Information on Four Federal Stimulus Priorities](#)



What resources would be most helpful to you during the pandemic & recovery period?

What topics that we addressed today would you like to attend convenings around for further discussion? What formats of virtual or small group convenings would you propose?



What topics didn't we  
address today that you'd  
like to learn more about?

# Q & A

# What's Next?

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01

## GATHER DATA

Track industry data and report on the impacts to operations and economic health. (e.g. job losses, revenue erosion, energy debt in aggregate and by customer type)

02

## STORYTELLING

Seek and promote narrative examples of impacts to the industry and how it affects people's lives. (e.g. blog posts, interviews)

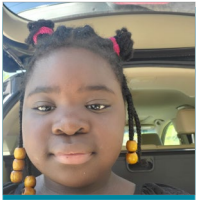
03

## COMMUNITY BUILDING

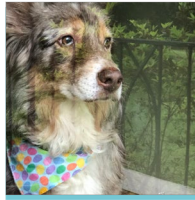
Create forums and engagement opportunities for SEEA members and stakeholders to be in community with each other and share information.

# COVID-19 Corps

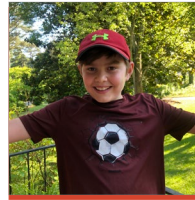
Interrupting video calls since 2020



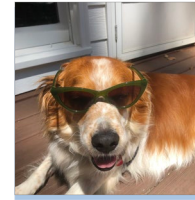
Jazmine



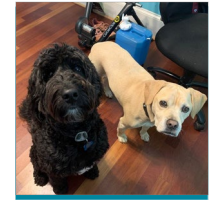
Sawyer



Wyatt



Charlie



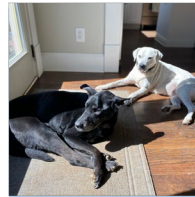
Bear & Winston



Jack



Juniper



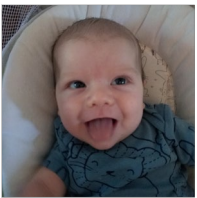
Ti & Libby



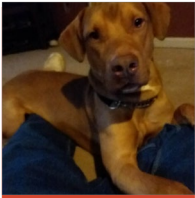
Jehan



Zirak



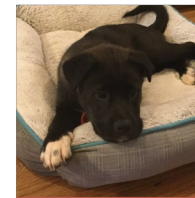
Teddy



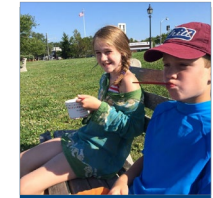
BRONzer



Paul & Ferris



Nash Vegas



Gaylin & Sawyer

# Thank You

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