

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1 Diversified Reporting Services, Inc.

2 RPTS GONZALEZ

3 HIF045030

4

5

6 POWERED UP: STATE UTILITY REGULATORS ON

7 CHALLENGES TO RELIABLE, AFFORDABLE ELECTRICITY

8 WEDNESDAY, FEBRUARY 14, 2024

9 House of Representatives,

10 Subcommittee on Energy, Climate, and Grid Security,

11 Committee on Energy and Commerce,

12 Washington, D.C.

13

14

15 The Subcommittee met, pursuant to call, at 10:30 a.m.,
16 in Room 2322, Rayburn House Office Building, Hon. Jeff Duncan
17 [chairman of the subcommittee] presiding.

18 Present: Representatives Duncan, Curtis, Burgess,
19 Latta, Guthrie, Griffith, Bucshon, Walberg, Palmer, Lesko,
20 Pence, Armstrong, Weber, Balderson, Pfluger, Rodgers (ex
21 officio), Carter, Allen; DeGette, Peters, Fletcher, Matsui,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

22 Tonko, Veasey, Kuster, Schrier, Castor, Sarbanes, Cardenas,
23 Blunt Rochester, and Pallone (ex officio).

24

25 Staff present: Kate Arey, Digital Director; Sarah
26 Burke, Deputy Staff Director; David Burns, Professional Staff
27 Member; Nick Crocker, Director of Coalitions; Sydney Greene,
28 Director of Operations; Nate Hodson, Staff Director; Tara
29 Hupman, Chief Counsel; Daniel Kelly, Press Assistant; Sean
30 Kelly, Press Secretary; Peter Kielty, General Counsel; Emily
31 King, Member Services Director; Mary Martin, Chief Counsel;
32 Kaitlyn Peterson, Clerk; Karli Plucker, Director of
33 Operations; Peter Spencer, Senior Professional Staff Member;
34 Deyona Burton, Minority Intern; Waverly Gordon, Minority
35 Deputy Staff Director and General Counsel; Tiffany Guarascio,
36 Minority Staff Director; Brian Hall, Minority Energy Fellow;
37 Kristopher Pittard, Minority Professional Staff Member; Kylea
38 Rogers, Minority Policy Analyst; and Tuley Wright, Minority
39 Staff Director, Energy, Climate, and Grid Security.

40

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

41 *Mr. Duncan. Subcommittee on Energy, Climate, and Grid
42 Security will now come to order. The Chair will recognize
43 himself for five minutes for an opening statement, and before
44 we start the clock for my opening statement, I just want to
45 say this.

46 So sad that our Chair Rodgers is announcing her
47 retirement, and will be leaving along with me at the end of
48 this Congress, and I would like to recognize her if she'd
49 like to make a statement.

50 *Mrs. Rodgers. Thank you. Thank you, thank you,
51 everyone. Boy, I'm just so grateful. My heart is just full
52 of gratitude. That's the overwhelming thought right now, and
53 to all of you, to my colleagues, to the staff, being the
54 chairman of the House Energy and Commerce Committee really is
55 the ultimate in Congress, and I've been here a while and I've
56 served in a lot of other roles, and serving with all of you
57 this year has just been the best.

58 We've worked on a lot of issues, and you know what? I'm
59 going to keep this short, because we have a whole other year
60 ahead of us, right? And we're going to finish strong, and
61 we're going to __ we're going to get some more bills and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

62 legislation important to the American people on the
63 President's desk. So, thank you everyone very much. This
64 has just been wonderful to be chair for this Congress. Thank
65 you.

66 *Mr. Duncan. Thank you for your service. We do have a
67 whole year lined up ahead of us, and we've got a lot of work
68 to do. So, we'll go ahead and get started.

69 I want to thank you all for being here today and welcome
70 the Energy, Climate, and Grid Security Subcommittee hearing
71 entitled Powered Up: State Utility Regulators on Challenges
72 to Reliable, Affordable Electricity.

73 This hearing continues the Committee's focus on
74 affordable and reliable electricity. During this Congress,
75 we've worked to understand what drives the growing
76 reliability crisis in America. Already we have heard from
77 FERC and grid operators about the very real threats facing
78 reliability.

79 Today, we'll hear from state public utility
80 commissioners, utility regulators that answer to ratepayers
81 in their states. State commissions and utilities or
82 integrated resource plans __ use integrated resource plans to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

83 look at both the cost and benefits of the entire electricity
84 portfolio over an extended period of time.

85 Commissions use these plans to ensure there's enough
86 electricity and that rates are fair and affordable. However,
87 changes to electric sector over the past 20 years have
88 presented new challenges to this mission.

89 Many states have introduced retail choice and rely more
90 on retail transmission organizations, RTOs, and independent
91 system operators, or ISOs, in capacity markets. This has
92 made it difficult for utility commissions to exercise their
93 responsibility for ensuring affordability and reliability to
94 protect the rate payers.

95 Threats to electric grid reliability are growing due to
96 environmental regulations, policies from state legislatures
97 and agencies, bans on fossil fuel generation, and market
98 distortions.

99 These factors are contributing to premature retirement
100 for most of our reliable and dispatchable resources. Because
101 of the increasingly interconnected nature of the grid, policy
102 decisions that affect grid reliability have a much wider
103 impact than ever before.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

104 Some may say that more renewables and transmission can
105 solve the problem of an increasingly unreliable grid.
106 However, this plan increases costs and complexity, and may
107 even intensify certain risks in states reliant on borrowing
108 power from others.

109 The full system cost of renewables are higher because of
110 the need for extensive backup power and redundant
111 transmission lines. Systems must be overbuilt to ensure
112 there is power when the sun is down, and when the wind isn't
113 blowing.

114 Building more transmission also raises utility costs for
115 American ratepayers, even if those ratepayers may not
116 directly benefit from the added transmission. Despite this,
117 several states and regions carry on with their ideological
118 objectives under a seemingly false sense of security that
119 their neighbors can continue to save them.

120 Look at states like California, and regions like New
121 England, which have some of the most ambitious environmental
122 goals, but they rely upon electricity imports from their
123 neighbors as part of their planning.

124 Over the last two years, the California ISO imported

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

125 about 15 percent of its total supply. New England imported
126 about 15 percent of all of its electricity last year. Where
127 the retail electricity rate is the highest __ where are the
128 retail electricity rates the highest? California and New
129 England.

130 Even with all the warnings, the Biden Administration
131 continues its rush to a green agenda with regulations like
132 the EPA's clean power plan 2.0, which threatens to regulate
133 reliable generation out of existence. American ratepayers
134 pay for the fallout from these retirements and the state
135 utility commissions must justify the cost.

136 The North American Electric Reliability Corporation
137 monitors grid reliability and develops standards. They
138 continue to warn us that over two-thirds of the country is
139 running into a shortage of generation capacity, which will
140 have dire consequences on grid reliability. When an electric
141 generator plans to retire, and a study shows that the
142 retirement would violated NAERC reliability criteria, many
143 states choose to ignore this guidance in favor of their
144 radical environmental policies that increase the likelihood
145 for blackouts.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

146 For decades, people know that when the lights went out,
147 the state commissions and utilities were responsible.
148 Because of the changes in the electricity landscape, it's now
149 unclear who is responsible. However, it is clear who is
150 blamed: the state utility commissions are blamed.

151 We must listen to the state utility experts about the
152 reliability challenges they're facing. Congress must learn
153 to do and must learn what it must do to prevent further
154 retirement of reliable resources, and to keep electricity
155 affordable.

156 Today, we'll continue this process, and I welcome the
157 witnesses. I will now recognize Ranking Member Diana DeGette
158 for five minutes.

159 *Ms. DeGette. Thank you so much, Mr. Chairman, and I
160 want to welcome all of the witnesses, but in particular I
161 want to welcome my constituent Keith Hay, who is from Denver,
162 Colorado, my district, and Keith is the senior director of
163 policy at the Colorado Energy Office where he's worked since
164 2019.

165 Before he worked there, he worked at the Colorado PUC
166 from 2010 to 2019, including advisor to the commissioners,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

167 and he's the senior director of policy. He supervises staff
168 working across several functional areas. And so we're happy,
169 Keith, that you're here today to give us your wisdom. And
170 with that, I will start my opening statement.

171 The PUCs that all of you are a part of play a critical
172 role across the nation. Your work every day is responsible
173 for making sure that electricity is available, and it also
174 helps you regulate the electric utilities that deliver
175 reliable electricity to American homes and businesses.

176 So moving forward, one of the biggest factors impacting
177 that reliability is going to be the climate crisis, and our
178 grid's resilience in the face of that reality. And we need
179 to be clear about the stakes.

180 As many of our colleagues here have heard me say
181 repeatedly, the climate crisis is existential, and we've seen
182 this. Extreme weather is already hitting states across the
183 nation in the form of strong storms, longer wildfire seasons,
184 massive flooding, colder temperatures throughout the window,
185 and on and on.

186 A key component of the response to the climate crisis is
187 going to be the transition to cleaner energy sources. And

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

188 so, the policies that these agencies that all of our
189 witnesses represent are vital for setting the pace of clean
190 energy deployment, and these decisions to encourage or block
191 particular sources of electricity have a direct impact on the
192 day to day life of Americans in the short term, and all of
193 our futures in the longer term.

194 Knowing the harm on regulated pollution from energy
195 production has caused in so many communities, and the way it
196 fuels the climate crisis has inspired Democrats to
197 consistently prioritize the transition to cleaner energy, but
198 without sacrificing reliability.

199 The bipartisan infrastructure law, which we enacted in
200 2021, has accelerated the deployment of utilities, scaled
201 renewable energy, and energy storage. It also provided a
202 historic \$10.5 billion for grid reliability, resiliency, and
203 flexibility projects.

204 And the Biden Administration has implemented common
205 sense carbon pollution standards for fossil fuel power
206 plants. This action will reduce dangerous air pollution,
207 fight the climate crisis, and protect Americans' health in
208 communities across the country.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

209 In the meantime, the Department of Energy announced \$3.5
210 billion for funding projects like power line hardening,
211 battery micro_grids, and wildfire resistance, which is really
212 important in states like Colorado.

213 Now, I expect some of my colleagues in this hearing to
214 use their time to try to insinuate that transitioning to
215 cleaner energy also means less reliable electricity. That's
216 simply not the case. Here is the reality: our current fossil
217 fuel infrastructure has already proven itself incapable of
218 withstanding extreme weather events __ see Texas and other
219 places.

220 But my home state of Colorado is proving that
221 transitioning to cleaner forms of energy does not have to
222 mean that you have to compromise on reliability. Colorado
223 has been moving quickly in the direction of renewable energy,
224 supplying just under 40 percent of our electricity in 2022.

225 In 2010, by way of contrast, 68 percent of our
226 electricity in Colorado came from coal. In 2022, coal
227 supplied just 36 percent of our electricity, and gas 26
228 percent. In my state, one of the utilities has received
229 approval from the PUC to build a new transmission network

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

230 that will connect wind and solar resources. This new wind
231 and solar power in Colorado will help the state achieve its
232 carbon_free grid by 2040.

233 The Colorado Electric Transmission Authority is studying
234 the potential need for additional transmission in Colorado,
235 which may include electric storage to harness all the new
236 wind and solar __ the energy wind and solar will create,
237 thereby increasing resilience and reliability.

238 So, if states like Colorado are transitioning to more
239 reliable, cleaner energy sources, they are also investing in
240 measures that will increase resilience. We know the two
241 things are conjoined.

242 So, I'll close with this. All of you folks sitting here
243 today bear massive responsibility. A lot is being asked of
244 you, and is expected of you, and so I want to thank you in
245 advance for everything you are doing. I'm confident given
246 the continuation of federal investments, the realities of the
247 changing climate, and the needs of the American people, that
248 we can all work together to have a smooth transition to
249 cleaner energy that does not sacrifice reliability. I yield
250 back.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

251 *Mr. Duncan. The Chair will now recognize the Chair of
252 the full committee, Chair Rodgers for five minutes for an
253 opening statement.

254 *Mrs. Rodgers. Good morning. We cannot say this
255 enough. Energy is foundational to everything we do, and
256 affordable, reliable electricity is the cornerstone of this
257 foundation. It's what keeps the lights on, heats our homes,
258 and powers our hospitals and businesses.

259 Access to electricity over the past century has raised
260 our standard of living, driven technological innovation, and
261 improved the health and wellbeing of all Americans. We need
262 to continue protecting and building on that legacy.

263 Sadly, President Biden's rush to green environmental
264 policies and regulatory restrictions are driving up costs and
265 jeopardizing this legacy and our grid reliability. We've
266 seen baseload and firm generation sources driven out or
267 shuttered by radical policies across the country. These
268 sources are being replaced by less reliable, more expensive,
269 weather dependent generation, and everyday Americans are
270 paying the price.

271 In some places, people are paying nearly double the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

272 nation_wide average for residential electricity prices. In
273 places like California, this has become such a problem that
274 the state is increasingly having to rely on hydropower from
275 my home state of Washington in order to balance its grid when
276 inconsistent resources like wind and solar can't produce
277 enough energy to meet demand.

278 In Texas, an overreliance on these weather dependent
279 resources has limited the state's ability to get power to
280 people's homes during periods of severe weather. Last
281 winter, several southern state utilities were unable to get
282 the power resources they needed from neighboring states
283 during a severe cold event, resulting in widespread blackouts
284 during the holidays.

285 The North American Electric Reliability Corporation
286 continues to warn that two_thirds of the nation is at
287 elevated risk of rationing and forced blackouts during
288 periods when people need the power the most.

289 These real risks and impacts were confirmed by FERC
290 commissioners before this committee last summer, and we heard
291 the same warnings from grid operators during the hearing last
292 fall.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

293 Their warnings were clear: while renewable energy from
294 sources like wind or solar absolutely play a role in
295 America's overall energy mix, they cannot replace reliable,
296 baseload sources, and accelerating the retirement of baseload
297 sources without adequate replacements will only increase the
298 risks of these life threatening blackouts and continue
299 driving up costs.

300 Today, it is important to hear an important perspective
301 that is too often overlooked by this administration. We'll
302 hear firsthand from state utility regulators about the
303 challenges they are facing to get affordable, reliable
304 electricity to people.

305 State public utility commissions have long been held
306 responsible for ensuring reliable delivery of power at
307 affordable rates. They reviewed the generation resource
308 planning to be sure that power will be available.

309 They reviewed decisions to build electric transmission
310 to determine whether it is necessary, and they approve or
311 disapprove of rate increases that can come with building
312 electric infrastructure. More and more, utility commissions
313 are confronting policies from their own state legislatures to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

314 retire baseload generation with no long term strategy to
315 replace it. I've seen this in my own state of Washington.

316 Commissions are also having to contend with the Biden
317 Administration's top_down rush to green policies that seek to
318 force more premature retirements, driving up costs and
319 putting more people at risk. We have a lot of questions
320 today regarding how these policies are threatening the
321 reliability of our grid, which is so foundational to our
322 economy and our way of life.

323 Rather than a radical energy transition, we must expand
324 our energy resource through an all_of_the_above strategy.
325 That's the best way to bring down costs for Americans who are
326 currently paying more while getting less when it comes to
327 electricity.

328 And energy expansion will ensure families won't have to
329 worry about rationing energy in the summer or winter months,
330 or having to make tough choices about whether to pay the
331 electric bill or buy groceries for their family. I'd like to
332 thank each of our witnesses for being with us here today. I
333 look forward to your testimony, and we have lots of
334 questions. Thank you. I yield back.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

335 *Mr. Duncan. The gentlelady yields back. I now
336 recognize the ranking member of the full committee, Mr.
337 Pallone, for five minutes.

338 *Mr. Pallone. Thank you, Mr. Chairman. I'm not going
339 to repeat what I said about Chair Cathy Rodgers downstairs,
340 because I think most of you heard it already, but I have to
341 say again that I'm not happy about her leaving, but I also
342 know I can't do much about it.

343 I just ___ maybe I can just say, Cathy, that you're kind
344 of the perfect example of what most people don't realize,
345 which is that as a colleague you can disagree on policy, but
346 at the same time really like the person who is your
347 colleague, and understand the level of integrity that they
348 have around here. So once again, I just ___ we're going to
349 work together to get things done the rest of the year. I'll
350 leave it at that.

351 So, I know that today we're ensuring that Americans have
352 the power to light and heat their homes, and that's a top
353 responsibility of this subcommittee. Overtime the way that
354 we ensure electric grid reliability has changed dramatically,
355 and we know that for most of the last century we relied on

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

356 monopoly utilities that were responsible for every step of
357 the electricity delivery chain from generation to
358 transmission to distribution.

359 But that all began to change 25 years ago when the FERC
360 issued Order 888, which brought competition to electricity
361 markets across the nation, and the new power markets have
362 promoted competition that has lowered wholesale energy prices
363 and reduced greenhouse gas emissions, all while ensuring
364 reliability.

365 And I strongly believe that we can build an affordable
366 and reliable grid that is powered by clean energy. After
367 all, we can't continue to rely on polluting fossil fuel
368 plants that are worsening the climate crisis. Instead, we
369 must reduce greenhouse gas emissions from power plants while
370 also reducing emissions of particulate matter, sulfur
371 dioxide, and other pollutants.

372 And we know that these pollutants have devastating
373 health impacts on the communities in which these emitting
374 power plants reside. We simply can't allow these plants to
375 continue emitting unabated when real technologies exist that
376 offer a cost effective solution. And these new technologies

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

377 are going to be critical as we continue the clean energy
378 transition, particularly considering the reliability
379 challenges of our fossil fuel infrastructure.

380 In late 2022, Winter Storm Elliot brought dangerous
381 winter conditions to large parts of the country. Over 6
382 million customers experienced power outages during the storm,
383 outages that were largely caused by freezing at natural gas
384 fired power plants, and the inability of pipelines to deliver
385 gas to power plants in freezing conditions.

386 After conducting a review of the outages that occurred
387 in the Carolinas and Tennessee, FERC Chair Willie Phillips
388 emphasized that Congress must fill the regulatory gaps that
389 exist for gas reliability.

390 In the wake of the northeast blackouts in 2003, Congress
391 amended the Federal Power Act to create mandatory reliability
392 standards for electricity, however, we know even though many
393 electric systems base their reliability on the operation of
394 the gas production, transmission, and generation, there is no
395 mandatory reliability requirements for the gas system. So if
396 we care about reliability, we can't allow this double
397 standard to continue.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

398 Any system is only as reliable as its most unreliable
399 component, and if the gas infrastructure that the power
400 system relies upon is unreliable, then that has serious
401 consequences for electric reliability.

402 So last Congress, Democrats delivered on electric
403 reliability with a bipartisan infrastructure law that
404 included \$25 billion to support grid reliability. Of course,
405 not one Republican on this committee supported that bill, but
406 just this year, President Biden's Department of Energy has
407 announced over \$7 billion in grants, incentive payments, and
408 capacity contracts to strengthen the grid.

409 This level of investment in our nation's electric
410 infrastructure has not been seen since the days of rural
411 electrification as part of the New Deal, and these
412 investments will greatly enhance electric reliability
413 throughout the nation.

414 Democrats also invested in energy efficiency with nearly
415 \$5.5 billion in the bipartisan infrastructure law, and 9
416 billion in the Inflation Reduction Act. And I'm sure all
417 witnesses today know the cheapest megawatt is the one that
418 you never have to use, and energy efficiency programs

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

419 represent a huge potential source of reliability, especially
420 as electrification rates increase due to consumer
421 preferences.

422 So finally, resilience and reliability upgrades to the
423 grid can be transformative and cost effective. These
424 upgrades can be everything from grid enhancing technologies
425 to the linking together of previously separated grids, and I
426 believe any comprehensive discussion of reliability must
427 include consideration of these elements, and frankly I find
428 it disappointing that so far, the Republican majority has
429 been unwilling to engage in that conversation. But with
430 that, Mr. Chairman, I yield back the balance of my time.

431 *Mr. Duncan. The gentleman yields back. We will now
432 conclude the members' opening statements, and the chair would
433 like to remind members pursuant to the committee rules, all
434 members' opening statements may be part __ made part of the
435 record. I wish everyone a happy Valentine's Day, and a happy
436 Ash Wednesday, and I thank all the witnesses for being here
437 today in taking time to testify before the subcommittee.

438 Each witness will have an opportunity to give an opening
439 statement, followed by a round of questions from the members.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

440 There are lights in front of you, pretty self_explanatory __
441 green, yellow, and red. When it gets to yellow, start
442 wrapping up. Red, your time is expired, and we'll try to
443 stay on time.

444 We do have four witnesses today, and I'll introduce
445 them. Mrs. Tricia Pridemore, commissioner with the Georgia
446 Public Service Commission, Mr. Jim Huston __ you pronounce
447 that, "Houston, ''?

448 *Mr. Huston. Huston.

449 *Mr. Duncan. Huston, thank you. Chairman of the
450 Indiana Utility Regulatory Commission. Mr. Keith Hay, senior
451 director of policy with Colorado Energy Office; and Mr. Nick
452 Myers, commissioner with the Arizona Corporation Commission.
453 Thank you all for being here.

454 I'll now recognize Mrs. Pridemore for five minutes.

455

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

456 STATEMENT OF TRICIA PRIDEMORE, COMMISSIONER, GEORGIA PUBLIC
457 SERVICE COMMISSION; JIM HUSTON, CHAIRMAN, INDIANA UTILITY
458 REGULATORY COMMISSION; KEITH HAY, SENIOR DIRECTOR OF POLICY,
459 COLORADO ENERGY OFFICE; AND NICK MYERS, COMMISSIONER, ARIZONA
460 CORPORATION COMMISSION

461

462 STATEMENT OF TRICIA PRIDEMORE

463

464 *Ms. Pridemore. Thank you. Thank you, Mr. Duncan.
465 Thank you for the invitation to speak with you today. I
466 appreciate the kindness extended by Chairman Jeff Duncan and
467 the other members of the Subcommittee on Energy, Climate, and
468 Grid Security. I'd also like to thank Energy and Commerce
469 Committee Chair Cathy McMorris Rodgers for her leadership.

470 My name is Tricia Pridemore, and I'm a commissioner at
471 the Georgia Public Service Commission, elected statewide to
472 create and maintain a safe, reliable, affordable utility
473 system in one of the fastest growing states in the nation.

474 Electricity generation and transmission are paramount to
475 Georgia. We operate in a shared operations and transmission
476 format with one major investor in utility, 41 electric

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

477 co_ops, 49 municipal electric providers. This shared system
478 provides a great economy of sale and cost savings to
479 customers.

480 Much of our electric generation is mutually owned. Our
481 transmission is interconnected without costly redundancy
482 across companies, and our region is directly interconnected
483 to five neighboring regions. We are not an island. Instead,
484 we've made use of every ratepayer dollar to provide a more
485 reliable system.

486 In 2024, Georgia is at a critical juncture in
487 transitioning to more clean energy sources while experiencing
488 historical increases in load growth. As the number one state
489 for business for ten consecutive years in a row, coupled with
490 technology progression and electrification, more demands from
491 data centers, and new manufacturing growth from overseas,
492 Georgia is in need of more power than ever before.

493 Our market structure makes us more energy secure than
494 other regions. We have the authority to instruct utilities
495 to construct generation and build new transmission. The
496 state of Georgia holds a compact with a vertically integrated
497 utility, and they must generate what our state consumes.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

498 This is a similar agreement other southeastern states hold
499 with their electric utilities.

500 Our Georgia system gives me, as a regulator, all the
501 transparency without unnecessary bureaucracy. We do not rely
502 upon short_term gimmicks or taxpayer underwriting of
503 generation, or transmission projects. Georgia's systems
504 still has rates roughly ten percent below the national
505 average.

506 Today we take a highly diversified approach to
507 generation. Nuclear and hydro provide baseload, which
508 operates 24/7 365. Solar is a part_time energy source,
509 providing electricity when the sun is shining with some
510 battery backup. Natural gas and coal provide Georgia with
511 dispatchable energy, with all generation operating under both
512 the summer and winter reserve margin.

513 Georgia has become the number four state in the nation
514 for solar all without a renewable portfolio standard.
515 Georgia's electric generating portfolio has never been
516 cleaner, nor more accessible to customers. However, EPA 111
517 proposed rule puts all this thoughtful strategy and
518 implementation at great risk.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

519 Utilities have a legal obligation to serve, and I have
520 authority under the Constitution of Georgia to oversee a
521 healthy electric utility system. But EPA 111 puts the
522 utility, the customer, and the state regulator in an
523 impossible position.

524 Penalizing utilities for operating generation facilities
525 this EPA doesn't like opens a Pandora's Box for third_parties
526 to sue utilities. The EPA is __ the EPA is seizing control
527 from states. Control over systems that state agencies and
528 officials spend their deep expertise, research capabilities
529 analyzing and planning for healthy systems.

530 Consider this from the utility's point of view. With a
531 legal obligation to serve, utilities must choose between
532 using generation assets this EPA doesn't like, and being sued
533 by environmentalists and paying fines to the federal
534 government.

535 And this choice is being made at a critical pinch period
536 when solar is failing, and demand is surging. The
537 alternative is for utilities to not generate electricity,
538 force blackouts, and thus open themselves up for other legal
539 actions.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

540 Now consider this from the customer's point of view.
541 Please note that currently seven to eight percent of
542 Georgia's customer's bills are to pay for forced EPA
543 compliance today. If a utility chooses to uphold their legal
544 obligation to serve, generate in the ways this EPA doesn't
545 like, customers are left to pay the fines and any resulting
546 costs from legal actions.

547 If the utility chooses not to use the dispatchable
548 generation asset this EPA doesn't like __ by the way, assets
549 the customer has already paid for in rates __ blackouts
550 occur, and the utility is yet again subject to legal action.
551 That same customer is on the hook for legal action. They're
552 suffering through a blackout, and they're out blackout
553 related costs, such as spoiled food in the refrigerators.
554 Potentially, their life is at risk because they have home
555 health equipment dependent upon electricity, such as dialysis
556 or oxygen machines.

557 Customers are getting hurt by these regulations, and
558 getting stuck with the bill. Reality_based relief valves are
559 not long term reliability solutions either, because the
560 customer has already been charged for these assets.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

561 Regulators in utilities know their systems better than
562 federal agencies, and any proposed implementation of relief
563 valves.

564 I thank you for your time. I thank you for your
565 attention. There is much to be done. Thank you for your
566 willingness to listen and consider your state regulator's
567 perspective.

568 [The prepared statement of Ms. Pridemore follows:]

569

570 *****COMMITTEE INSERT*****

571

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

572 *Mr. Duncan. Thank you, Mrs. Pridemore, and I'll now go
573 to Mr. Huston for an opening statement.
574

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

575 STATEMENT OF JIM HUSTON

576

577 *Mr. Huston. Can you hear me okay? Good morning, Chair
578 Rodgers, Ranking Member Pallone, Chairman Duncan, Ranking
579 Member DeGette, and members of the committee. I'd like to do
580 a special shout out to Congressman Pence and Congressman
581 Bucshon from the great state of Indiana. Thank you for their
582 privilege to appear before you this morning and provide
583 Indiana's landscape, and how the Indiana Commission is
584 responding to challenges presented by policy decisions as
585 part of the energy transition, and the provision of safe,
586 reliable service at just and reasonable rates.

587 Like other states, Indiana has experienced its own
588 energy transition over the past 20 years. Traditionally,
589 coal serves as a significant energy source in Indiana. Until
590 the early 2000s, coal accounted for 90 to 95 percent of
591 Indiana's generation, but today makes up around 45 percent of
592 our fuel mix. Natural gas, nuclear, wind, and other fuels
593 account for the rest.

594 As Indiana is one of the leading states in our energy
595 transition, we are the second biggest wind state east of the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

596 Mississippi River, and the seventh fastest growing solar
597 state in the nation. This transition from coal can largely
598 be attributed to various environmental regulations, including
599 coal combustion residuals, PM Ozone, nitrous oxide, sulfur
600 dioxide, and ELG regulations.

601 For decades, Indiana rate payers enjoyed some of the
602 lowest electric rates in the country. Part of this was due
603 to Indiana's access to affordable coal. However, as
604 continued environmental regulations were introduced on coal
605 facilities, utilities made the necessary investments to keep
606 them operating.

607 These costs of investments impacted Indiana's price
608 ranking, which went from being in the top five in the country
609 of affordable rates to now in the 2020 __ 29th in the
610 country.

611 With the changing generation mix and corresponding rise
612 of customer rates, Indiana enacted a framework for the
613 Indiana Commission to consider when making electric rate
614 making decisions, commonly referred to in Indiana as the five
615 pillars, which are reliability, affordability, resiliency,
616 stability, and environmental sustainability.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

617 Indiana also passed a law that our electric utilities
618 must have suitable generation secured, and do not rely too
619 much on the wholesale market, limiting capacity auction
620 purchases to 15 percent of their needs.

621 While the management of the electric grid requires
622 teamwork, Indiana wants to ensure utilities are doing their
623 part to be self_sufficient. On customer choice, Indiana
624 protected customers by allowing them to choose natural gas.

625 The Indiana Commission also submitted joint comments
626 with our agency partners, IDEM, and the OUCC, the consumer
627 counselor's office, regarding the EPA's proposed rulemaking
628 setting new standards for greenhouse gas emissions for
629 electric generating units.

630 Our concerns included a focus on the proposed rule's
631 unrealistic timing, particularly in the context of the
632 utility's state sanctioned and regulator reviewed integrated
633 resource plans. It is not obvious that the proposed
634 environmental benefits outweigh the other pillar
635 considerations that state regulators must consider to ensure
636 safe, reliable service at affordable rates.

637 Regarding reliability, and in the spirit of cooperative

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

638 federalism, we issued a general administrative order a couple
639 years ago encouraging MISO and PJM's input into generation
640 petitions before the commission, and we provide them with
641 comments as well.

642 For example, Indiana believed stakeholders must find
643 ways to streamline the interconnection queue processes while
644 promoting market signals for capacity, dispatchable
645 characteristics in ancillary services, and scarcity pricing.
646 Indiana supports the adoption of these RTO efforts and
647 support grid reliability and resiliency.

648 Ultimately, this all highlights that energy policies
649 should rely on state commission's management of 20 year
650 planning horizons. Effective policy and regulation should
651 allow us to be nimble, flexible, and adaptive on emerging
652 energy issues that impact our state.

653 Thank you for the opportunity to testify today, and
654 thank you for your service to this country. I'll be happy to
655 answer any questions you may have.

656 [The prepared statement of Mr. Huston follows:]

657

658 *****COMMITTEE INSERT*****

659

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

660 *Mr. Duncan. Thank you, Mr. Huston.

661 Mr. Hay is recognized for five minutes.

662

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

663 STATEMENT OF KEITH HAY

664

665 *Mr. Hay. Good morning, Chair Duncan, Ranking Member
666 DeGette, and members of the committee. I'm Keith Hay, the
667 senior director of policy at the Colorado Energy Office, and
668 again, I want to thank you for the opportunity to share the
669 story of how we are working to provide reliable, affordable,
670 low carbon electricity for all Coloradans, and how federal
671 action can further support a low carbon reliable grid.

672 Representative DeGette shared this story already of the
673 start of Colorado's deep decarbonization of our electrical
674 grid. In part, that transition has been enabled by a
675 dramatic decline in the cost of wind, solar, and batteries,
676 the increasing skill and experience of our utilities in
677 effectively integrating renewables, and a supportive policy
678 environment.

679 Pursuant to statutory planning requirements, Colorado's
680 utilities are projected to reduce greenhouse gas pollution by
681 84 to 87 percent by 2030. Our last coal plant in the state
682 will retire by the end of 2030. We've managed this
683 transition while keeping electric rates in the state below

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

684 the national average in large part by partnering with our
685 utilities and focusing on the three pillars of affordability,
686 reliability, and pollution reductions.

687 As we look past 2030, the energy office is preparing to
688 release a study that evaluates pathways to deeper
689 decarbonization of Colorado's electric grid. The results in
690 both our business as usual and our zero carbon scenarios are
691 instructive.

692 Our modeling shows that under the business as usual
693 approach, which is the lowest cost scenario that meets a 2040
694 load growth of 40 percent, the Colorado grid can achieve a
695 roughly 94 percent reduction in greenhouse gas pollution. It
696 does this by adding significant amounts of wind, solar, and
697 batteries, while retaining a gas generation fleet that is
698 approximately the size of today's.

699 Over time, however, the levels of dispatch of the gas
700 units declines dramatically, but they continue to play an
701 important role in system reliability. By 2032, only one unit
702 approaches a 20 percent capacity factor, and by 2040, gas
703 units supply just two percent of Colorado's electricity.

704 The decline in the use of gas in our modeling is driven

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

705 by the cost of gas compared to the lower cost of renewable
706 energy and storage. The study also finds that across all of
707 the scenarios, most of Colorado's electricity comes reliably
708 from wind, solar, and storage, between 70 and a hundred
709 percent.

710 Energy efficiency plays a key role in helping to meet
711 those emissions reduction targets, supplying roughly nine
712 percent of the state's energy needs in 2040. As a result of
713 all of this, Colorado will need to triple its wind capacity
714 and quintuple its solar capacity between now and 2040.

715 The study also shows that the lowest cost pathway to
716 full decarbonization includes flexible, firm, and
717 dispatchable resources with combustion turbines powered by
718 clean hydrogen, among the lowest cost resources as a result
719 of the incentives under the Inflation Reduction Act.

720 New forms of geothermal electricity also play an
721 important role. What's key here today is that our analysis
722 illustrates no negative impacts on the reliability of
723 Colorado's electric grid from EPA's proposed clean power
724 regulations. Instead, it shows that the technologies
725 proposed in the EPA rules, including carbon capture and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

726 especially clean hydrogen, will be important to achieving a
727 lower cost pathway to deep decarbonization.

728 While it isn't a result of the study, the analysis
729 strongly indicates that expanded transmission capacity both
730 in state and interregional, which will enable reaching
731 regions of high renewable potential, and allowing access to
732 energy from across diverse geographic areas, will be
733 important to reliably meeting Colorado's electric needs.

734 Colorado's clean energy transition highlights not only
735 the opportunity for states to improve reliability and
736 resilience by shifting to lower cost renewables, it also
737 illustrates the important role for the federal government in
738 supporting states with this transition, including permitting
739 reform.

740 Colorado is ___ as I said, will need to triple its wind
741 and quintuple its solar. To enable this, we are working on
742 streamlining state and local siting processes for renewable
743 energy transmission. We believe similar action at the
744 federal level will be important.

745 Colorado would support federal action to grant a
746 categorical exclusion for geothermal. We support the Big

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

747 Wires Act, which will enable the expansion of transmission
748 that's necessary for clean energy development, and we would
749 support continued investment in building efficiency through
750 rebates, tax credits, and support for advanced building
751 codes.

752 I thank you for the opportunity to testify here today,
753 and I look forward to your questions.

754 [The prepared statement of Mr. Hay follows:]

755

756 *****COMMITTEE INSERT*****

757

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

758 *Mr. Duncan. Thank you, Mr. Myers __ Mr. Hay.

759 Mr. Myers, you're recognized for five minutes.

760

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

761 STATEMENT OF NICK MYERS

762

763 *Mr. Myers. Thank you, and good morning Chairman
764 Duncan, Ranking Member DeGette, and members of the
765 subcommittee. As with Mrs. Pridemore, I too am a statewide
766 elected commissioner at the Arizona Corporation Commission.
767 We are a bit unique in that only about 13 states actually
768 elect their commissioners.

769 The ACC is also ___ the ACC and its responsibilities are
770 also Constitutionally established. In Arizona, we have a
771 truly diverse topography and climate. While most people
772 think of us as a desert, the reality is that Northern Arizona
773 also has 7_8,000 feet of elevation, lush green forests,
774 multiple seasons, and regular snow. This makes a one size
775 fits all approach to regulation almost impossible if we are
776 being true to our Constitutional obligations to ensure
777 utilities provide reliable and affordable service.

778 While I cannot speak on behalf of the Commission, and
779 the views I express are my own, I can tell you that it
780 appears the current make_up of the Commission generally tends
781 to favor an all_of_the_above approach to electricity

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

782 generation.

783 We have approved almost 2,000 megawatts of solar plus
784 battery connections in the last year, while at the same time
785 approving hundreds of megawatts of thermal generation. Many
786 of the challenges we face moving forward with regard to
787 reliable generation center around early forced retirement of
788 coal plants without adequate replacement.

789 Personally, it pains me to have to approve accelerated
790 cost recovery for early shutdown of coal plants, while at the
791 same time authorizing recovery on new purchased power
792 agreements, and then because the utilities are ultimately
793 responsible for keeping the lights on, we also have to
794 approve the building of reliable dispatchable generation in
795 the form of natural gas.

796 If you're keeping count, that means our rate payers are
797 paying three times for the same energy generation that could
798 be had by simply keeping our existing generation online until
799 natural retirement, or even better, beyond that.

800 Some of the problems we face are overly burdensome
801 regulations in the form of early forced retirement of
802 reliable generation, roadblock after roadblock with regards

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

803 to transmission construction, and interference with
804 vegetation management.

805 A perfect example is the SunZia Project that promises to
806 bring wind energy from New Mexico through Arizona to
807 California. The project began 16 years ago, and is still not
808 through all the red tape and lawsuits.

809 Another example is renewable energy mandates, which
810 forced our utilities to invest in premature technology at
811 long term contracts, and now cost our ratepayers more than
812 four times what the energy being delivered is worth on the
813 competitive market, and will get worse over the next 15 to 20
814 years as the price of solar continues to drop.

815 Other problems are delayed development and
816 commercialization of new technologies, such as small modular
817 reactors, micro_nuclear, and hydrogen, which are simply in
818 their infancy.

819 Finally, we lack the infrastructure to supply natural
820 gas. We do not have the throughput in our state to allocate
821 much more capacity to turbines that are needed to complement
822 the intermittent renewable resources we are adding.

823 However, we do have options. While they won't appear

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

824 overnight or even in the next decade, we are moving fast and
825 furious on two new thousand_megawatt pumped hydro basins. We
826 are actively engaging in discussions to use salt caverns that
827 are prime for natural gas storage and possibly hydrogen
828 storage.

829 This type of storage has the ability to provide
830 buffering for the entire west coast and parts of Mexico. We
831 are also working with Kinder Morgan to help their endeavor of
832 getting more and larger pipelines built going from Texas all
833 the way to California. While this is not a perfect solution,
834 large pipelines allow for line packing that also act as a
835 buffer.

836 Additionally, we've been very active in day ahead
837 markets. We're looking at both EDAM and Markets Plus. It
838 appears we have less interest in EDAM for many of the reasons
839 you heard back in September of last year regarding the
840 governance issues. However, I have personally been very
841 active in the Markets Plus tariff development, specifically
842 with regards to resource adequacy and greenhouse gas.

843 A day ahead market has shown that in almost all
844 simulations, with or without the inclusion of Washington and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

845 California, results in a savings for our utility customers.
846 A day ahead market is being viewed as a possible stepping
847 stone to a full_fledged RTO. It will also help us determine
848 appropriate transmission.

849 While Arizona has many transmission lines in
850 development, it is important to work with our neighbors to
851 determine what is best in regards to long term transmission
852 that is suitable for our region.

853 Thank you again for allowing me to testify today, and I
854 look forward to answering all of your questions.

855 [The prepared statement of Mr. Myers follows:]

856

857 *****COMMITTEE INSERT*****

858

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

859 *Mr. Duncan. Thank you, Mr. Myers. I'll thank all of
860 the witnesses for your testimony.

861 We will now move into the question and answer portion of
862 the hearing, and I'll recognize myself, then I'll recognize
863 the ranking member, and we'll go back and forth that way on
864 each side until we've exhausted all the members. So, I'll
865 begin by recognizing myself for five minutes for questions.

866 Commissioner Pridemore, nuclear energy is one of the
867 most reliable sources of energy, and also one of the most
868 impactful ways to reduce emissions. Can you talk about how
869 the vertically integrated model in your state supports
870 integrated resource planning and how this was instrumental in
871 building the new reactors at VOGTLE?

872 *Ms. Pridemore. Yes, sir. Thank you for the question.
873 Plant VOGTLE, once unit four is fully actualized, will become
874 the largest electricity generating plant in the nation.
875 There are currently four nuclear reactors there. We'll be
876 just under 4,600 megawatts of power.

877 Just this morning, unit four received initial
878 critically, which means it is splitting atoms. Next step is
879 to connect it to the grid. We get an enormous amount of long

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

880 term benefit from 24/7 carbon free power at VOGTLE, as well
881 as our two nuclear units at Plant Hatch.

882 It allows us to provide baseload energy that we can
883 marry with renewables, we can marry with natural gas
884 generation to be able to help us manage our extraordinary
885 load growth.

886 We also have the great benefit from a transmission
887 standpoint where we put nuclear, we build less transmission,
888 and there's a cost consideration for that for customers.
889 It's immeasurable when you look at the 20 year planning
890 process that we go through in Georgia. We have a
891 comprehensive integrated resource plan that examines how we
892 generate, and then how we transmit. When you consider VOGTLE
893 and it's 60 to 80 year lifespan, it will be generating
894 electricity long after I'm gone.

895 *Mr. Duncan. Yeah. Thank you for that. Georgia is not
896 part of an RTO or an ISO, and has some of the most affordable
897 and reliable electricity. Do you think this model better
898 supports reliability and long term affordability, and can you
899 explain why?

900 *Ms. Pridemore. Yes, sir. I appreciate my colleagues

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

901 that are in states that are part of an RTO or an ISO. In
902 Georgia, we're not. Our integrated system allows us to be
903 able to get the economies of scale to work with the 41 co_ops
904 as well as the 49 municipals so that we have a system that
905 all works together.

906 We're not building competitive transmission lines, or
907 even competitive generation. When you consider the
908 integrated approach that we've taken, it's allowed us to get
909 the economies of scale. It also allows us to serve a large
910 load base.

911 I'm very proud of the fact that our market structure has
912 stood the test of time. It allows us to not only generate
913 what is needed in the state, but also to inter_connect with
914 the five neighboring regions to help them when they need
915 assistance.

916 *Mr. Duncan. Thank you for that. Mr. Huston, proposals
917 from the EPA that aim to force coal and gas to adopt
918 compliance technologies or retire all together would have
919 dire impacts to reliability and affordability. You mentioned
920 that in Indiana.

921 That's why my bill, the Grid Act, will require FERC

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

922 state impacts to reliability from a proposed agency action
923 like EPA's clean power plan 2.0. The Grid Act would ensure
924 that federal agencies cannot finalize regulations that will
925 harm reliability before the agency responds to FERC's
926 assessment __ reassessment. How could the Grid Act help
927 promote reliability and protect against generation
928 retirement?

929 *Mr. Huston. Well, the way I understand it, it makes
930 sense to have the economic regulator have a window into what
931 the environmental regulator is doing simply from the
932 standpoint of accountability. It's all the federal
933 government, and getting that kind of exposure from both
934 perspectives I think makes sense for ratepayers.

935 As Tricia just mentioned, in integrated resource
936 planning, the utilities have either engaged in a 20 year
937 horizon look at the way the future will unfold, and then
938 developed a preferred portfolio from which then they may seek
939 certificates of need or public convenience for new generation
940 to replace retiring generation.

941 The way that the EPA is doing things at this moment in
942 time, and this is the reason why we express reservations

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

943 about the greenhouse gas rule was because it turns that on
944 its side.

945 It both causes environmental compliance problems, it
946 causes the 20 year integrity of the planning process
947 significant problems, and if it winds up having generation
948 assets that are already in the ground to make additional
949 investments that ratepayers have to pay, it's a triple
950 whammy.

951 And so, I think that the concept, while I am not an
952 elected official, I am appointed by the governor, so I'll
953 have a disclaimer on the policy embraced, the suggestions
954 that you make sound common sense to me.

955 *Mr. Duncan. Thank you so much. Mr. Myers, real
956 quickly, can you talk about how premature retirement of
957 baseload resources increases total costs and makes the system
958 less reliable?

959 *Mr. Myers. Sorry. Yes, as I mentioned in my opening
960 statements, our ratepayers are paying three times for the
961 same generation and retiring reliable generation for
962 unreliable __ you know, in favor of unreliable generation is
963 just bad.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

964 I mean, it's common sense. You have to have a backup
965 plan. So, you have to __ you have to __ you have to create
966 more dispatchable generation that sits there idle, you know,
967 so that you can use it whenever the sun goes down, or
968 whenever the wind doesn't blow. We don't have a whole lot of
969 wind in Arizona, but you have to have that generation
970 available to come online when that happens.

971 *Mr. Duncan. Yeah, that solar starts at zero every day
972 and ends at zero.

973 *Mr. Myers. Yeah, exactly.

974 *Mr. Duncan. Yeah. I will now recognize the ranking
975 member for five minutes.

976 *Ms. DeGette. Thank you so much, Mr. Chairman. We're
977 going to be hearing an undercurrent in this hearing today of
978 the myth that you have to __ if you're going to move to
979 renewable energy that you're going to have to sacrifice
980 resiliency and reliability.

981 And so, Mr. Hay, I want to ask you just very briefly,
982 have we __ have you and your study found that to be true?
983 And how can we maintain the utmost in reliability and
984 resiliency while still transitioning to these various

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

985 ambitious goals that our state is doing?

986 *Mr. Hay. Thank you, Representative DeGette. No. In
987 fact, quite the opposite. The study that we conducted
988 actually required all of our scenarios to model two NAERC
989 reliability standards, and what we found is that across the
990 board, all of the scenarios actually met those reliability
991 standards.

992 *Ms. DeGette. How do they do that? I mean, the ___ you
993 know, the Chairman just said, well, the sun goes down at
994 night, and Mr. Myers just said, well, we don't have a lot of
995 wind in Arizona. So, especially when you're looking
996 nationwide at different states with different sources, how do
997 you do that?

998 *Mr. Hay. Representative, I would agree with my
999 colleagues on the panel, actually. The planning is the key,
1000 and Colorado, like these other states, has a robust resource
1001 planning process where our regulated utilities come before
1002 our commission and demonstrate how they are going to both
1003 decarbonize and keep rates affordable.

1004 And it's through that process, and today, wind and solar
1005 actually in Colorado are less expensive than our coal units.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1006 Our commission in a prior decision found that retiring two of
1007 our older coal units, Comanche One and Two in Pueblo, could
1008 result in as much as \$2_400 million savings to customers as a
1009 result of retiring those units and replacing them with lower
1010 cost renewables.

1011 *Ms. DeGette. But I'm going to assume that you wouldn't
1012 be telling Mrs. Pridemore or Mr. Huston or Mr. Myers that the
1013 exact mix that we're using in Colorado would work in their
1014 states?

1015 *Mr. Hay. Absolutely not, and in fact that's why we
1016 modeled all the scenarios that we did. One was wind, solar,
1017 and batteries only. One involved small modular reactors.
1018 One was just, what is the most cost effective basket of
1019 resources?

1020 And even __ and in that scenario, it was actually clean
1021 hydrogen, as I said in my opening remarks, as a result of the
1022 tax credits. So, there are multiple pathways to help
1023 decarbonize the grid. And so, I would encourage my
1024 colleagues to look at those opportunities and pathways.

1025 *Ms. DeGette. And just so you know, at least from the
1026 Democratic side of the aisle, we're not talking __ Mr. Myers,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1027 you'll be happy to know this. We're not talking about a
1028 national one_size_fits_all where we're mandating what people
1029 need to do to get to zero carbon emissions by 2040 or
1030 whatever the date is.

1031 What we're __ what we're trying to do is incentivize
1032 folks to come up with their own plans like Colorado has. And
1033 so, Mr. Hay, I know you've been involved for a long time in
1034 this field. Do you talk to your colleagues from other
1035 states, and are other states developing these types of plans,
1036 and what kind of advice can you give to them?

1037 *Mr. Hay. Well, thank you, Representative, and I would
1038 agree, Colorado doesn't actually force particular resources
1039 on any one utility. We really have an outcome focused policy
1040 framework in the state of Colorado where we've partnered with
1041 their utilities to give them different opportunities.

1042 I do talk to my colleagues across the country, and some
1043 of them are planning for decarbonizing their grids and new
1044 generation to meet electrification of transportation and
1045 buildings. Some are not, but I would encourage all of them
1046 to really look at the possibility of shifting to lower cost
1047 renewables as a way to ensure long term affordability to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1048 customers.

1049 *Ms. DeGette. Great. And one last thing. You raised
1050 something that is really critical as we move towards
1051 decarbonization, and that is permitting reform, because we
1052 have to be able to get the transmission that we need, and we
1053 also have to be able to locate these sources.

1054 Perhaps __ well, I only have a little bit of time left,
1055 so let me just make a commercial announcement for my
1056 colleague, Mr. Peters, because Mr. Peters is honchoing a
1057 bipartisan effort towards permitting reform. Mr. Chairman, I
1058 think it'd be great if we could work on legislation that we
1059 could try to pass this Congress, because that's going to
1060 really enable us to get to a carbon free future, but also
1061 grid reliability and resiliency, and with that, Mr. Chairman,
1062 I yield back.

1063 *Mr. Duncan. The gentlelady yields back. I'll now go
1064 to Mr. Latta for five minutes.

1065 *Mr. Latta. Well, thanks, Mr. Chairman, and thanks for
1066 holding today's hearing. Thanks chair witnesses for being
1067 with us today. I know the members on this committee have
1068 heard me say this, but Northern Ohio, we make about

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1069 everything from steel to glass to engine blocks to autos,
1070 tires, you name it, we make it. We consume a lot of energy
1071 to do that.

1072 My district alone has 86,000 manufacturing jobs. When I
1073 go back to 2014, I think of the polar vortex that we had, you
1074 know, it was pretty, pretty close that people were concerned
1075 across the state that we were going to go into blackouts and
1076 brown outs, but we had none. Every power station was up and
1077 generating at that time. And today, though, we've got a
1078 situation where I'm not sure we could do that, because we've
1079 seen these power generation stations going offline.

1080 So, I've got a lot of questions in my last four minutes
1081 or so. I'd like to ask as many as I possibly can, and
1082 Commissioner Pridemore, first question. Do we need more
1083 power, or less power?

1084 *Ms. Pridemore. More power, sir.

1085 *Mr. Latta. Thank you, and then when you were talking
1086 about your demands in energy, and especially __ and this is
1087 coming up frequently now __ from the data centers. Are we
1088 going to need more power or less power when we have these __
1089 more of the data centers coming online?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1090 *Ms. Pridemore. More power. Much more.

1091 *Mr. Latta. Because I've seen statistics that we're
1092 talking about probably doubling that, what we're going to
1093 have to have right now. And then also you mentioned in your
1094 testimony about some solar ___ on the solar side, and I'm ___
1095 we're a firm believer in all_of_the_above energy policy, and
1096 having everything in the mix out there. But I'm just kind of
1097 curious. In your testimony, you're talking about battery
1098 back up on ___ how much power do you have in back up from the
1099 batteries?

1100 *Ms. Pridemore. In Georgia, we have a prescribed 80
1101 megawatts of battery storage. We have more that's before us
1102 right now for reviewing a case. But sir, our challenge with
1103 batteries has been supply chain issues, accessibility of the
1104 batteries have been a big issue for us.

1105 Not to mention the cost. Some of these newer
1106 technologies, such as my friend here mentioned, hydrogen,
1107 they are very young, and with that comes an extraordinary
1108 cost that comes with that, and as costs ___

1109 *Mr. Latta. Could I ___ could I just ask on that, the ___
1110 you know, when you're talking about the ___ pardon me for

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1111 interrupting __ the timeline on that though, if we're on
1112 those batteries. How much time would that be? Is it 10
1113 hours? 12 hours? How many hours do you think that would be
1114 for the power needs?

1115 *Ms. Pridemore. That depends upon the overall storage
1116 of the battery itself, and how __ what the capacity of it is.
1117 You could see five hours, you could see 24 hours. It depends
1118 upon __

1119 *Mr. Latta. Okay.

1120 *Ms. Pridemore. __ the actual battery.

1121 *Mr. Latta. Thank you. Chairman Huston, if I could
1122 also ask you, do we need more power or less power?

1123 *Mr. Huston. More.

1124 *Mr. Latta. And you know, you mentioned in your
1125 testimony that your __ the state was in the top five
1126 affordable, and now you're 29th in 2022. What about business
1127 development?

1128 Do they look at that when they come into the state? Are
1129 businesses remaining in the state, especially on the
1130 manufacturing side? Because my district butts up to your
1131 state on my western side, and you know, the question is, are

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1132 you seeing a change out there with manufacturers looking at
1133 the state when you're looking at your power?

1134 *Mr. Huston. Well, not to impugn the state of Ohio as
1135 our next door neighbor.

1136 *Mr. Latta. Be careful.

1137 *Mr. Huston. We are ___ we are the highest manufacturing
1138 employee population by percent of population in the country,
1139 and like Ohio have enormous steel production in Northwest
1140 Indiana ___

1141 *Mr. Latta. Right.

1142 *Mr. Huston. ___ but we have steel production elsewhere
1143 in the state, tremendous auto production, manufacturing and
1144 melting metals and moving metals requires a tremendous amount
1145 of energy.

1146 And from an economic development standpoint, that is
1147 important to have grid stability along with reliability and
1148 resiliency to maintain a manufacturing base. You are moving
1149 a ladle with 40 tons of molten metal. You do not want that
1150 energy supply interrupted. It's the same kind of thing that
1151 would happen with chip manufacturers.

1152 *Mr. Latta. Right.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1153 *Mr. Huston. They need significant amounts of energy
1154 that is uninterrupted, and so that's where grid stability or
1155 quality __ some people call it quality.

1156 *Mr. Latta. And sorry to interrupt you, let me ask this
1157 question real quick. You need to be real quick on this one.
1158 PJM. When you're trying to __ when you're meeting with PJM,
1159 are they telling you that you need more power or less power
1160 right now?

1161 *Mr. Huston. More.

1162 *Mr. Latta. Thank you. Commissioner Myers, I've only
1163 got about 33 seconds, but also I'd like to ask the same
1164 question. Do we need more power or less power?

1165 *Mr. Myers. Definitely more.

1166 *Mr. Latta. And again, you also mentioned about your
1167 data centers and large industrial manufacturing account for
1168 75 percent of your energy growth in the state. Are you going
1169 to need more power or less power because of that?

1170 *Mr. Myers. Oh, we're going to need much more power.

1171 *Mr. Latta. Okay, and my last 15 seconds, can you tell
1172 me how __ real briefly, how is this issue with permitting?
1173 Is it good? Bad? Indifferent?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1174 *Mr. Myers. I think I covered that in the opening
1175 statement. 16 years for a transmission line just for
1176 permitting is ridiculous.

1177 *Mr. Latta. And just real quick, whether you're looking
1178 at 16 years of that, how much more costs went into that
1179 project because of that 16 years?

1180 *Mr. Myers. That's to be determined, but a lot.

1181 *Mr. Latta. Okay. Thank you very much, Mr. Chairman.
1182 My time has expired, and I yield back.

1183 *Mr. Duncan. The gentleman yields back. I'll now go to
1184 Mr. Peters for five minutes.

1185 *Mr. Peters. Thank you, Mr. Chairman. Thanks to the
1186 witnesses. I would just say, Mr. Myers, it is ridiculous.
1187 It's inexcusable, and I'd love to work with you and everyone
1188 here.

1189 That's an interregional transmission line which is
1190 something I want to talk about today. I agree with my
1191 Republican colleagues on one thing we need to get serious
1192 about the resource adequacy problem facing this country. We
1193 are facing, as you've recognized, unprecedented growth and
1194 corresponding energy demand from EVs, AI, data centers,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1195 manufacturing, and as well as natural population growth in
1196 both urban and rural areas.

1197 So if we're interested in talking about a long term
1198 strategy to maintain energy affordability and reliability
1199 while we reduce emissions, the committee needs finally to
1200 talk about transmission in the grid and our generation mix,
1201 and what combination of approaches work best, and Mr. Hay, I
1202 congratulate you on the work you've done in Colorado.

1203 Multiple analyses recently from MIT and Columbia have
1204 shown that the Big Wires Act, which I and Senator
1205 Hickenlooper introduced, would save customers hundreds of
1206 millions of dollars while keeping the lights on during
1207 natural disasters and other challenges. These cost and
1208 reliability benefits are driven by the ability of high demand
1209 regions to use energy from other regions that don't need it
1210 at that time. So, that means communities across the country
1211 using inexpensive Iowa wind, Arizona solar, and whatever else
1212 excess generation that folks are willing to buy and sell.

1213 I also want to emphasize that electrons and the
1214 transmission lines that carry them are resource neutral. All
1215 types of generation, whether fossil or renewable, need

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1216 transmission to connect to the grid and deliver energy to
1217 customers.

1218 So, a lot of you have said ___ and I think this is
1219 understandable ___ that you want to have enough in_state
1220 generation to serve your load without relying on other
1221 regions for your energy needs, but right now while we have
1222 winter storms and other grid straining events, the lights
1223 just keep going out, and study after study keeps saying that
1224 if we had just a little more transmission capacity, we could
1225 have kept the lights on while saving money for their
1226 customers and in some cases even saving lives.

1227 Mr. Huston, I understand that Indiana is a member of two
1228 regional reliability entities, MISO and PJM. I was happy to
1229 see the organization of PJM states and the additional MISO
1230 states call for a redoubling of efforts to coordinate
1231 interregional transmission planning. Did you see that
1232 letter?

1233 *Mr. Huston. Yeah.

1234 *Mr. Peters. Do you agree that more inter_regional
1235 transmission would better protect your customers from
1236 blackouts stemming from extreme weather or physical tax and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1237 otherwise support the five pillars that you ___ that guide
1238 Indiana's policy?

1239 *Mr. Huston. I think inter_regional planning makes a
1240 lot of sense.

1241 *Mr. Peters. Yeah. Mrs. Pridemore, I understand we
1242 need to build more generation to meet energy demand, but in
1243 the medium to long term with the growth that Georgia is
1244 seeing, congratulations, are you going to be able to have a
1245 hundred percent of your energy demand all the time met only
1246 by in_state generation? Because you had five connections to
1247 other regions.

1248 *Ms. Pridemore. Yes, Mr. Peters. We connect to five
1249 other regions, but the compact that the state of Georgia
1250 holds with our vertically integrated utility, is that we
1251 generate what we consume inside the state of Georgia.

1252 You mentioned blackouts and forced outages earlier. You
1253 can look at the last three winter storm incidents, and the
1254 number of blackouts and outages that we had were so minimal,
1255 they ___ just those caused by downed trees and localized
1256 events.

1257 *Mr. Peters. Do you not believe we'll need to ___

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1258 *Ms. Pridemore. We're not having those __

1259 *Mr. Peters. __ do you not believe we'll need to invest
1260 in transmission generation storage to meet demand?

1261 *Ms. Pridemore. We already do.

1262 *Mr. Peters. You called for permitting reform for
1263 pipelines in your testimony, but not for transmission. Are
1264 you satisfied with the federal transmission planning process?

1265 *Ms. Pridemore. Yes. I'm satisfied with the way that
1266 Georgia does it.

1267 *Mr. Peters. Federal?

1268 *Ms. Pridemore. I would definitely __ I am satisfied
1269 with the conditions by which that Georgia manages its
1270 transmission.

1271 *Mr. Peters. Mr. Myers, you're obviously not satisfied
1272 with what's happened with your line __ this SunZia
1273 transmission line? Can you tell me how long it's taken for
1274 that line to be built, and what happens if you are unable to
1275 build it?

1276 *Mr. Myers. Well, I think it's been about 16 years
1277 since it was initially proposed, and it is __ what happens is
1278 we don't get a path from New Mexico over to Arizona to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1279 transmit a majority of its wind power, but it will be a DC
1280 line that transmits power across state lines there. What
1281 happens there is probably not too much for Arizona because a
1282 lot of that power is going to California; it's destined for
1283 California. But it is a transmission line, you know, between
1284 states that we will not be able to use.

1285 *Mr. Peters. So, it's frustrating you as an Arizonan
1286 though, right?

1287 *Mr. Myers. It is, because we've had multiple
1288 commissions that have gone through __ happen to go through
1289 this approval process over and over again because things keep
1290 changing, and keeps coming back before us because of federal
1291 laws changing, whatever the case may be, lawsuits, tribal
1292 lawsuit is one that's the latest.

1293 *Mr. Peters. Well, I would say that for me, if you look
1294 at what's the conclusions of MIT, Big Wires would reduce
1295 electricity costs, help keep the lights on for millions of
1296 families, prevent tens of millions of metric tons of fuel
1297 emissions, I am hoping we can pursue it as well as permitting
1298 reform, and do more inter_regional transmission. Mr.
1299 Chairman, I yield back.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1300 *Mr. Duncan. The gentleman yields back. I'll now go to
1301 the chair of the full committee, Chair Rodgers, for five
1302 minutes.

1303 *Mrs. Rodgers. My home state of Washington is blessed
1304 with abundant, clean, affordable, reliable, dispatchable
1305 hydropower. And yet today, we have secret deals by the Biden
1306 Administration that aim to breach some of the dams that are
1307 in my district, which is only going to further limit this
1308 abundant source of clean energy.

1309 Commissioner Myers, your testimony mentions that as more
1310 utilities turn to the market for electricity, there's less
1311 available for everyone else to meet their needs. And you
1312 also talk about the loss of reliable resources like coal, and
1313 the limited supply of natural gas in Arizona.

1314 From your perspective as a public utility commission,
1315 how important is dispatchable generation to meeting growing
1316 electricity demand, adapting to changing demand patterns, and
1317 would you agree that we need more, not less dispatchable and
1318 reliable generation like what comes from the Four Lower Snake
1319 River dams?

1320 *Mr. Myers. One hundred percent, and I will add that

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1321 Arizona does rely a lot on hydro power, and some of it comes
1322 from the Pacific Northwest, you know, wheeled down through
1323 California, of course, with that stipulation.

1324 *Mrs. Rodgers. Yeah, and sometimes California tries to
1325 snatch it from us in ___

1326 *Mr. Myers. Exactly.

1327 *Mrs. Rodgers. ___ in that process anyway. Moving on,
1328 how can state utility commissioners work to protect existing
1329 infrastructure to make sure there's enough dispatchable and
1330 reliable generation?

1331 *Mr. Myers. How can we protect?

1332 *Mrs. Rodgers. Yeah.

1333 *Mr. Myers. Well, we're doing it right now. We're
1334 coming to you saying we cannot have these rules that take
1335 away hydro power. We need to ease up on EPA restrictions.
1336 That's how we protect our energy grid, is to make sure that
1337 our reliable energy does not go away without adequate
1338 replacement.

1339 *Mrs. Rodgers. Thank you. Commissioners Pridemore and
1340 Mr. Huston and Mr. Myers, assuring fair and affordable rates
1341 and reliable services is central to your jobs as state public

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1342 utility commissioners. As state legislators and federal
1343 policies press to increase intermittent renewable resources
1344 over more reliable baseload sources, what are the impacts
1345 that you're seeing on this for your responsibilities and
1346 authorities, and who ultimately pays for these policies?
1347 Mrs. Pridemore?

1348 *Ms. Pridemore. Thank you, ma'am. I'd like to first
1349 start with who pays for it. Americans pay for it. Customers
1350 pay for it. This especially hurts low to moderate income
1351 folks, people that are on a fixed income, especially senior
1352 citizens.

1353 You consider that this overall cost of redundant
1354 generation and additional transmission that's being built to
1355 supply low cost solar arrays in lower areas, and be able to
1356 move that power back to, you know, major power producing
1357 centers.

1358 That's extraordinarily expensive, and considering it at
1359 a time when Americans are hit with inflation, we're just __
1360 it's too much. We're asking too much right now. We are
1361 getting to cleaner sources. I think sometimes we spend a lot
1362 of time just fighting about the speed by which we get there.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1363 *Mrs. Rodgers. Thank you. Mr. Huston?

1364 *Mr. Huston. Well, I echo what Commissioner Pridemore
1365 has said. It's the ratepayers that ultimately pay, and I
1366 would add to it that in every field hearing that we do when
1367 there's a rate case before us, the overwhelming message is
1368 exactly what she just said about low and moderate income
1369 families.

1370 They are the ones that are most hit by any basic utility
1371 increase. They're living on fixed incomes. They don't have
1372 the ability to deviate from those fixed incomes with
1373 discretionary income the way that maybe people who are more
1374 well off.

1375 *Mrs. Rodgers. Thank you.

1376 *Mr. Huston. And so, we are very, very sensitive about
1377 what Washington does, and how it may impact those rate
1378 payers.

1379 *Mrs. Rodgers. Thank you. Mr. Myers, I'm actually
1380 going to ask you another question. The electric system in
1381 the west is becoming more interconnected. What happens in
1382 Washington State or California may affect Arizona's ability
1383 to supply reliable and affordable power. Can you briefly

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1384 explain the governance issues with California, the CAISO, its
1385 grid operator, and how they harm rate payers in western
1386 states like Arizona or Washington State, and should western
1387 states rely on California to govern the grid?

1388 *Mr. Myers. My personal opinion, we cannot. There is
1389 not a big appetite for allowing California to run the RTO or
1390 even the day ahead market. California has supremacy clauses
1391 in their legislation, or primacy, so everything they do has
1392 to be centered around California. If we have a problem, they
1393 will make a change only if it benefits California, and that
1394 is a huge problem for us.

1395 We also do not believe in their governance structure,
1396 that they can regulate power. I mean, just look at how much
1397 of a bang up job they've done keeping their own lights on.
1398 You know, we __ there aren't too many states that are happy
1399 to hand over control of their power grid to that.

1400 *Mrs. Rodgers. Okay. Thank you. My time has expired.
1401 I'll yield back.

1402 *Mr. Duncan. The gentlelady yields back. I now
1403 recognize the ranking member of the full committee, Mr.
1404 Pallone, for five minutes.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1405 *Mr. Pallone. Thank you, Mr. Chairman. Mr. Hay, I want
1406 to address a discrepancy we've heard today between Colorado's
1407 view on the EPA rules and the views from some of the other
1408 states represented here.

1409 So first, I wanted to touch on the EPA's proposed power
1410 plan emissions rule. In your testimony, you state that the
1411 head of Colorado's energy office, I guess Mr. Toor, provided
1412 comments to the EPA that said that even absent the rule,
1413 Colorado foresees its utilities will be in compliance with
1414 the proposed standards.

1415 So for a state like Colorado that's already well on its
1416 way to meeting its own energy goals, can you talk about some
1417 of the benefits that Colorado expects to see from the
1418 proposed EPA rule?

1419 *Mr. Hay. Thank you, Representative Pallone. You know,
1420 I think that perhaps one of the biggest things that will
1421 benefit Colorado, as I said in my comments this morning, is
1422 more support for things like clean hydrogen and carbon
1423 capture, which again, in our modeling, are the kinds of
1424 resources that are going to help us get further down that
1425 path to decarbonization.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1426 And so for us, that technology support and driver in the
1427 EPA rule, which you know, as that comes into effect, it will
1428 help reduce the costs of those technologies, is really a big
1429 benefit to the state, we anticipate.

1430 *Mr. Pallone. And then I wanted to touch on your
1431 statement that Colorado is well on its way to meeting clean
1432 energy targets without the EPA's rule. Can you talk about
1433 the results of the modeling you mentioned, and how they show
1434 that even a business as usual situation sees a massive
1435 decrease in emissions all due to the cheaper costs of
1436 renewables relative to natural gas?

1437 *Mr. Hay. Thank you, Representative. And you know, the
1438 first step in that process has really been getting all of our
1439 utilities to get to at least an 80 percent emissions
1440 reduction by 2030, and they are all on track to meet that
1441 requirement.

1442 They'll get to about an 86 percent renewable as they
1443 meet that pollution reduction requirement. So, that study is
1444 really taking that next step from that high 80 percent range,
1445 looking out towards potentially full decarbonization.

1446 And so, what we did in the modeling, again, is we looked

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1447 at different scenarios and different pathways, but that
1448 business as usual case is really fascinating because ___ and
1449 we didn't anticipate the result.

1450 What we got back from the modeling was that if we simply
1451 take what we're doing today, and allow our existing gas fleet
1452 to transition to newer technologies for gas, bringing on ___
1453 put off some older plants, bring on some newer plants, that
1454 that process gets us to about a 97 percent emissions
1455 reduction in state, and an overall emissions reduction of
1456 around 94 percent. So really, the system that we have can
1457 help get us forward to meet those pollution reduction
1458 requirements.

1459 *Mr. Pallone. All right. Then briefly, I wanted to
1460 highlight a part of your testimony where you mentioned that
1461 Colorado is requiring its utilities to consider participating
1462 in regional electricity markets, and what are the benefits
1463 that utilities and the residences of your state might be able
1464 to see if Colorado utilities were to participate in these
1465 markets?

1466 *Mr. Hay. Thank you, and yes, we do have a statutory
1467 requirement that all of what is called under Colorado law are

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1468 transmission utilities have to be participants in an
1469 organized wholesale market by 2030 unless there are findings
1470 that it's not in the public interest.

1471 We've been participants in and helped conduct a number
1472 of studies, one partnership with our public utilities
1473 commission, one in partnership with four other western
1474 states, all of the studies have suggested that there are
1475 hundreds of millions of dollars in financial benefits to
1476 customers from being able to share power across different
1477 parts of the western interconnect. Those studies looked at
1478 different footprints.

1479 And so, really it starts with that financial benefit to
1480 customers, but secondarily it gives us the ability to access
1481 more renewable energy across the west, and to share
1482 Colorado's renewable energy with states that need it.

1483 *Mr. Pallone. All right, then lastly I wanted to ask
1484 about the grid resiliency funding that Colorado received from
1485 the bipartisan infrastructure law. By my count, Colorado
1486 utilities have received just over \$225 million. Can you talk
1487 about the importance of these awards to aid the work that
1488 Colorado utilities are doing to mitigate the impact of

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1489 wildfires, and enhance reliability?

1490 *Mr. Hay. I can, and thank you again for the question.
1491 You know, as Representative DeGette suggested, wild fires are
1492 an important part of what is happening in Colorado. It's one
1493 of the leading things that we are seeing as a significant
1494 impact from the climate crisis.

1495 And so, it's really important that our utilities be able
1496 to make investments really in three different areas. First
1497 of all, understand what is the potential for wildfires, and
1498 some of the funding will help them do things like advanced
1499 soil monitoring and vegetation management. But also being
1500 able to respond more quickly on their system as wildfires are
1501 happening.

1502 So, are they monitoring the grid, and then are they able
1503 to actually move the electricity off that area of the grid
1504 onto another part so that we don't see outages? And then the
1505 third piece of that is actually being able to put the grid
1506 back up into place as quickly as possible.

1507 Colorado is a mountainous, rugged, rural state outside
1508 of the front range. And so, the federal support for our
1509 utilities has been really key, and I'd like to highlight just

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1510 one piece of that with Holy Cross Energy and their work with
1511 some of our rural electric cooperatives. Those are often
1512 very small utilities that serve very small areas.

1513 *Mr. Pallone. All right. Thank you so much. Thank
1514 you, Mr. Chairman.

1515 *Mr. Duncan. The gentleman's time has expired. We'll
1516 now go to Mr. Guthrie for five minutes.

1517 *Mr. Guthrie. Thank you, Mr. Chair. Thank you for the
1518 recognition, and thank you everybody being ___ for being here.
1519 You know, I ___ the goal of all of us is making sure that our
1520 constituents have sustainable, reliable, and importantly
1521 affordable access to energy.

1522 Energy can completely change the dynamic of people's
1523 lives, and that's why we got to make sure that it's there.
1524 It can't just be dismissed how important it is for people to
1525 function.

1526 And so, for the EPA's clean power plan 2.0, it doubles
1527 down on the Biden Administration's rush to green by requiring
1528 coal and gas generators to convert to hydrogen, reduce their
1529 operations, or even force premature retirement of those
1530 assets.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1531 While the EPA does offer the use of technologies like
1532 hydrogen co_firing and carbon capture compliant strategies,
1533 these technologies are not commercially viable. So
1534 Commissioner Pridemore, could you talk about what measures
1535 your state, your utility operators, and power providers would
1536 have to do to comply with this rule?

1537 And are you able to comply with the timeline of the
1538 rules, and what would they have to do to comply, and can they
1539 comply within the timeline, and what will this do to the cost
1540 to your rate payers?

1541 *Ms. Pridemore. Thank you for the question, Mr.
1542 Guthrie. The utilities in the state of Georgia would be put
1543 between a rock and a hard place, trying to determine whether
1544 or not they're going to serve customers at times when they
1545 are pinched for power. It's this dispatchable energy that is
1546 so necessary to ensuring that we can provide continuous
1547 service.

1548 There's going to be a cost consideration of course to
1549 it, but then there's a long term consideration to the
1550 reliability of the renewable resources. I recognize that
1551 hydrogen and battery energy storage systems, as we call BESS,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1552 are fine technologies, but they're very young. They're very
1553 new. They have not been tested.

1554 There's been a great deal of research, but at the end of
1555 the day, the lights are on right now because the lights are
1556 on, not because of research. And so, it's imperative for us
1557 to consider not just the cost implications of these
1558 decisions, but also the long term viability of the
1559 technologies explored.

1560 *Mr. Guthrie. Thank you. And Chairman Huston, your
1561 home state is very near mine, or there's a mile wide river
1562 between most of ___ most of us, so we have very much the same
1563 needs, and you ___ and growing energy needs. What type of
1564 generation do you expect to be built in your state over the
1565 next few years, and why? And can you talk about the risks
1566 and tradeoffs to customers for each type of the generations
1567 you will consider?

1568 *Mr. Huston. Well, sure. The 20 year planning process
1569 for integrated resource plans gives us a window into what the
1570 utilities are looking at, and they model all resources. In
1571 fact, the general assembly passed a statute to include SMRs
1572 as a clean energy resource, but that's still a very nascent

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1573 technology, and something that would not be costed out at a
1574 very significant level at this point. They model coal
1575 energy, they model gas, they model nuclear.

1576 They model everything, including variations, refueling
1577 of existing power facilities, and as I stated, what we have
1578 done at the commission is tried to maximize their look at
1579 optionality and flexibility, because the future is not known.
1580 We don't want science fiction type of aspirations to be part
1581 of it, we want facts.

1582 We want some technologies that are proven and that can
1583 sustain, hopefully, a 20 year horizon, and not have their
1584 depreciation schedules collapsed into even shorter period of
1585 time, causing exploding rates. That's a long winded answer
1586 for all_of_the_above is what we try to encourage in ways that
1587 provide dispatchable, reliable, resilient, sustainable
1588 electricity for __ into the future that meets our power needs
1589 and also is affordable. It's a very difficult challenge.

1590 *Mr. Guthrie. Well, thank you, and you talk about these
1591 aspirational, and we need to set goals, and we need to move
1592 forward, but when you put things into rules and so forth that
1593 are not __ just not obtainable __ for example, we've just

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1594 spent billions of dollars I guess on the infrastructure bill
1595 or the Inflation Reduction Act on batteries __ car batteries
1596 to say that all cars have to be electric by __ excuse me,
1597 two-thirds of cars produced have to be electric by 2032 when
1598 anybody in the car industry says that's just not doable, but
1599 people here took the money, so they didn't really say that,
1600 but now we see that the battery complex that has been built
1601 in my district is going to be about half what it was supposed
1602 to be when they first took the money, and because it's __
1603 you're just asking people to do things that are not possible.

1604 So Commissioner Pridemore, in your __ in your state, is
1605 your state widely affected by decisions of other states, and
1606 when they pursue unachievable environmental goals?

1607 *Ms. Pridemore. No.

1608 *Mr. Guthrie. No? You're not affected by that at all?
1609 So, the __ so, you can do things that make your market
1610 structure more secure?

1611 *Ms. Pridemore. We are affected by the actions of the
1612 federal government and the actions of the state of Georgia.

1613 *Mr. Guthrie. So, not the other states around you.
1614 Thank you. Thank you for that answer.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1615 *Ms. Pridemore. Thank you.

1616 *Mr. Guthrie. Appreciate it. I yield back.

1617 *Mr. Duncan. The gentleman yields back. I will now go
1618 to Mrs. Fletcher for five minutes.

1619 *Mrs. Fletcher. Thank you, Mr. Chairman, and thanks to
1620 all of our witnesses for being here today. This is a really
1621 important hearing. I don't think I have to tell anybody
1622 here, or explain to anybody here that Texans know the
1623 importance of grid reliability all too well, and we have our
1624 own set of challenges in Texas from the devastating impacts
1625 of the winter storm a couple of years ago, to record demand.
1626 We had peak demand this summer that set new records. The
1627 reliability of our grid is critically important, and people
1628 in my district and across our state are worried about it.

1629 Peak demand in ERCOT has now risen to __ I think it's
1630 risen by 5,000 megawatt hours for each of the last three
1631 years, and the rise in the demand that we've seen over the
1632 last few years, plus the expected increase in demand going
1633 forward, especially as we see a lot of new things happening,
1634 it's just one of the greatest challenges, I think, for
1635 operators everywhere in terms of ensuring reliability.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1636 So, in the last Congress, as Mr. Guthrie just mentioned,
1637 we did pass historic legislation that helps drive investment
1638 in all kinds of energy technologies, and I'm very much an
1639 all_of_the_above energy person, and I think we need to be
1640 doing all of these things in the Inflation Reduction Act, in
1641 the Chips In Science Act.

1642 We are investing in things that will lead to the
1643 development of new technologies that can add to the energy
1644 mix, and we're seeing these developments. Massive investment
1645 in new semiconductor manufacturing, in industrial
1646 manufacturing, batteries and battery storage, other energy
1647 components, and for the projects that are incentivized by
1648 these bills to succeed, we have to be able to power them, and
1649 I think one thing that I would like to focus on with the time
1650 that we have is what I see as the single greatest impediment
1651 to bringing a new generation online, and that is the
1652 permitting process.

1653 We've heard a little bit about it already this morning
1654 from Mr. Myers, and at least my notes say that the average
1655 time that projects spend in the queue is a little bit less
1656 than that, but has risen from 2.1 years to 3.7 years just

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1657 between 2010 and 2021, so over that decade.

1658 So Mr. Hay, in your testimony you stated that your
1659 modeling shows a need for significant expansion of supply to
1660 meet an anticipated 40 percent increase in demand by 2040.
1661 Under the current permitting structure, do you think that you
1662 will be able, or that we will be able to deploy the needed
1663 generation, given the permitting situation?

1664 *Mr. Hay. Thank you, Representative Fletcher, and
1665 actually that's one of the things this year in the Colorado
1666 General Assembly legislative session that we are taking on is
1667 reform to state level permitting and siting.

1668 We want to make it easier for developers to come forward
1669 with good projects, and simpler for our counties which have
1670 decision making authority in Colorado to actually vet and
1671 approve those projects.

1672 We think a similar streamlined process at the federal
1673 level would be really important to help make sure that the
1674 pace and scale of development of wind and solar and other
1675 clean energy technologies is where we need it to be if we're
1676 going to come forward and really do a deep decarbonization of
1677 an electrical grid.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1678 *Mrs. Fletcher. Thanks. I think that's an excellent
1679 point, and I would love to hear from everybody on the panel
1680 if you are experiencing this, if you think there are things
1681 that we should be looking at at the federal level, permitting
1682 reform ideas that Congress should be looking at, whether
1683 modeled on what you're doing in the states or elsewhere, but
1684 that would be helpful for all of us. Mrs. Pridemore, you
1685 have something to say?

1686 *Ms. Pridemore. Yes, ma'am. I would like to see
1687 meaningful pipeline permitting reform. Access to natural gas
1688 is essential for my state's growth, essential for commercial
1689 industrial customers, as well as residential customers who
1690 choose it for home heating. We continue to use gas as a
1691 dispatchable energy source on the electric side, but access
1692 to gas is essential for us. We'd love to see more.

1693 *Mrs. Fletcher. Great. Mr. Huston? And actually my
1694 next question was for you too, so maybe I can put them
1695 together. If you can talk about that, and also answer this
1696 question since I only have 54 seconds. You talked about the
1697 issues that the Indiana Utility Regulatory Commission faced
1698 for approving a carbon storage study in your testimony, and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1699 the difficulties in deploying new gas generation near
1700 transmission lines and adjacent carbon storage locations.

1701 So, apart from granting primacy applications, how could
1702 EPA improve the process around CCS and class six permitting
1703 and class six wells to make it easier for state utility
1704 regulatory commissions to develop these plans and projects?
1705 So, you got kind of both in one question.

1706 *Mr. Huston. Well, let me start with off the first
1707 question. Indiana is in the intersection of a lot of gas
1708 pipelines. We are blessed. We've got gas coming from Texas,
1709 we've got gas coming from Louisiana. We've got gas that's
1710 coming from Utica. We've got gas __ the Rocky Mountains
1711 Express Gas Pipeline which now flows in a different
1712 direction.

1713 So, access to gas is not as acute of a problem for
1714 either home use or for electric generation as it is elsewhere
1715 in the country. With respect to carbon capture and
1716 sequestration, is that what you're asking about?

1717 *Mrs. Fletcher. Yes.

1718 *Mr. Huston. We had one utility, Edwards __ Duke
1719 energy, EdwardsPort, which is the newest coal facility in the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1720 ___ one of the newest in the country ___ went operational in
1721 2013 ___ actually makes gas and burns gas at the same time.
1722 They did a carbon capture and sequestration study associated
1723 with that that came up with a prohibitive number. But I
1724 don't know enough to be able to say exactly what would be
1725 needed except for flexibility.

1726 *Mrs. Fletcher. Okay.

1727 *Mr. Huston. Different ___

1728 *Mrs. Fletcher. Well, I've gone over my time, so ___

1729 *Mr. Huston. ___ have different needs.

1730 *Mrs. Fletcher. ___ if you want to ___ if you have
1731 anything else to say, I'd love to submit it for the record,
1732 and I'll get those questions circulated to you all, and I'll
1733 yield back, Mr. Chairman.

1734 *Mr. Huston. Thank you.

1735 *Mrs. Fletcher. Thank you so much.

1736 *Mr. Duncan. The gentlelady yields back. I'll now go
1737 to Mr. Walberg for five minutes.

1738 *Mr. Walberg. Thank you, Mr. Chairman, and thanks to
1739 the panel for being here. Our governor, Governor Whitmer
1740 recently signed into law a sweeping climate package for our

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1741 state, really overriding local control and all of the other
1742 things, and my farmers and business people are extremely
1743 frustrated.

1744 It will accelerate retirements of baseload generation in
1745 favor of renewables with less capacity, seemingly ignoring
1746 concerns over reliability. The state government's goals
1747 somehow include more ___ both moving to one hundred percent
1748 clean electricity, while also adding the demand of millions
1749 more EVs on our grid.

1750 Chairman Huston, NAERC identified MISO as one of the few
1751 regions at risk for resource shortfalls. Demand for power is
1752 going up while generation is going down. You've all
1753 indicated, we need more generation. How should states build
1754 in more flexibility for the electricity demand of the future?

1755 *Mr. Huston. I think working together is one of the
1756 biggest ways to do that. There's a reason why we engage with
1757 MISO directly now through that general administrative order
1758 that I mentioned, soliciting input. Those guys are in charge
1759 of the grid from Manitoba to the Gulf of Mexico.

1760 *Mr. Walberg. Mm_hmm.

1761 *Mr. Huston. We're included in that, and we have states

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1762 with different perspectives and different environmental
1763 goals, but they need to move electrons around, and we need to
1764 understand as state commissioners exactly what is needed from
1765 them to do their job properly as well.

1766 We're not as independent as what Tricia was talking
1767 about in Georgia. We are interconnected and do rely on that
1768 connectivity. That's the reason why we support dispatchable
1769 characteristics being priced in the ancillary services.
1770 That's the reason why we look at scarcity pricing for
1771 delivering electrons when they are absolutely most needed.

1772 People talk about gas peaker plants and other kinds of
1773 peaking facilities as if they're not used because their
1774 utilization may only be ten percent of the time, but it is
1775 precisely at that point in time when you need __

1776 *Mr. Walberg. Need it.

1777 *Mr. Huston. __ it the most that you must have them.
1778 So, an all_of_the_above energy plan that includes the
1779 resources, that has positive characteristics on fuel side,
1780 which is where renewables are, but dispatchable and spinning
1781 on the reliable side is necessary to make sure that the grid
1782 does not go down.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1783 To your NAERC observation, we want to make sure that
1784 we're a working partner in Indiana in doing what we need to
1785 do, just as Georgia is doing, and doing things ourselves, and
1786 not over relying on the wholesale market, but also where the
1787 wholesale market is capturing a pricing mechanism to deliver
1788 dispatchable electrons.

1789 *Mr. Walberg. Appreciate that. Having Michigan power
1790 in my district, it's important. We've held hearings on this
1791 topic with FERC and the ISOs and the RTOs, and now the public
1792 utility commissions.

1793 With all these regulators, I think there's a false sense
1794 of security, with everyone leaning on somebody else. So, to
1795 the whole panel ___ and briefly and succinct ___ when the
1796 lights go out, who really is at fault? My constituents want
1797 to know where the buck actually stops. Mrs. Pridemore?

1798 *Ms. Pridemore. I am.

1799 *Mr. Hay. Number one, our utilities have an obligation
1800 to serve their communities, so ___

1801 *Mr. Huston. Number one, our utilities have an
1802 obligation to serve their customers. And so they are
1803 ultimately responsible, but I will say we bring them before

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1804 us twice a year on winter reliability and summer reliability
1805 to make sure that they've got the power needed and the
1806 resources needed to deliver peak load, plus a reserve margin
1807 on an ongoing basis.

1808 *Mr. Walberg. I sure like Mrs. Pridemore's answer. Mr.
1809 Hay? Where does the buck stop?

1810 *Mr. Hay. I thank you, Representative. As I think
1811 everyone knows, I am not a regulator in the state of
1812 Colorado, but I will say that for our investor end utilities,
1813 our commission ultimately is responsible for ensuring that
1814 the systems are reliable.

1815 *Mr. Walberg. Okay. Mr. Myers?

1816 *Mr. Myers. I am.

1817 *Mr. Walberg. Okay. Bookends, I like it. We're now
1818 moving clean into the mix along with affordability and
1819 reliability, and that's okay, but that was generally
1820 environmental. But now we're moving in. So the question I
1821 have, Mr. Huston, how do we __ how do we make sure that we
1822 incorporate clean without damaging the other two?

1823 *Mr. Huston. Well, it's the obligation to serve
1824 customers. They have __ the utilities have a responsibility

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1825 to deliver it, and we as regulators enforce that
1826 responsibility.

1827 So, we take it very seriously. That's the reason why we
1828 do engagement on an ongoing basis. It's the reason why our
1829 legislature has embedded five pillars, three of which could
1830 be characterized as reliability. Sustainability, stability,
1831 resiliency, reliability. It all works together.

1832 *Mr. Walberg. I certainly see my time has expired, but
1833 I certainly appreciate, Mrs. Pridemore, when you mentioned
1834 that it seems to be working. We're moving in that direction
1835 anyway, and without the government mandating, mandating,
1836 mandating. I yield back.

1837 *Mr. Duncan. The gentleman's time has expired, and I'll
1838 go to Ms. Matsui for five minutes.

1839 *Ms. Matsui. Thank you very much, Mr. Chairman, and I
1840 want to thank all the witnesses for being here today. I
1841 think we all agree that keeping the lights on is really a
1842 huge priority, and climate change is really making that job
1843 harder though, with more frequent and more intense extreme
1844 weather.

1845 Last week, Sacramento was battered by another

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1846 atmospheric weather that brought heavy rain and wind gusts
1847 over 65 miles per hour, which really downed a lot of trees in
1848 our city of trees. These storms knocked out power for
1849 thousands of my constituents, and I really want to thank our
1850 local utility SMUD who really acted quickly, and for the
1851 incredible work they did to quickly restore power across the
1852 region.

1853 Moving forward, climate change will increase the
1854 likelihood of severe weather __ more severe weather, which
1855 has consequences for the grid. Mr. Hay, how important is it
1856 for utilities and states to consider the weather impacts of
1857 climate change in planning for the future?

1858 *Mr. Hay. I thank you, Representative, and I would say
1859 it's absolutely essential in two ways. First of all, in
1860 Colorado, we're already seeing the impacts of changing
1861 weather as a result of climate.

1862 Our winters are no longer as cold as they used to be.
1863 Our summer days are warmer, and really importantly, our
1864 summer evenings are no longer as cool as they used to be.
1865 That's driving changes in utility load. Second is those
1866 extreme weather events, whether it's Winter Storm Uri a

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1867 couple of years ago, or summer heat domes.

1868 So, our public utilities commission is actually
1869 requiring our utilities as part of their resource planning
1870 process to essentially stress test each of the different
1871 models that they're running to make sure that our system is
1872 reliable, even under extreme weather.

1873 *Ms. Matsui. Okay. So, if a state utility ignored the
1874 impacts of climate change and continued to operate as they
1875 have in the past, is that likely to make the grid more
1876 reliable or less reliable?

1877 *Mr. Hay. Representative, I would say less reliable.

1878 *Ms. Matsui. Uh_huh.

1879 *Mr. Hay. The future is not going to be like the past.
1880 Our utilities need to be planning __

1881 *Ms. Matsui. Sure.

1882 *Mr. Hay. __ for different weather __

1883 *Ms. Matsui. Okay.

1884 *Mr. Hay. __ than they've had 30 years ago.

1885 *Ms. Matsui. That's good. Climate change is an
1886 emergency, and we have to act like it is. That's why I call
1887 on EPA to finalize a strong rule limiting climate pollution

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1888 from coal and gas plants. A strong national carbon pollution
1889 rule is necessary for the transition to a clean energy
1890 economy. Mr. Hay, is a proposed EPA rule feasible, and can
1891 you explain how you expect utilities in the west to meet the
1892 proposed rule?

1893 *Mr. Hay. As my comments reflect, Representative, in
1894 Colorado, we don't think that rule will actually have much of
1895 an impact in our state, because we're already ahead. I think
1896 Colorado can actually provide a roadmap for a lot of western
1897 states in looking at how they can achieve decarbonization
1898 while ensuring reliability and affordability.

1899 So, I would point to the model in Colorado where we set
1900 an emissions reduction target, and left it technology neutral
1901 for how to get there. I think that's largely what the EPA
1902 rule does.

1903 *Ms. Matsui. Mm_hmm.

1904 *Mr. Hay. And so, if they want to look at a state
1905 level, look to Colorado __

1906 *Ms. Matsui. Well, I'm also looking at my utility too,
1907 because our utilities, SMUD has set an ambitious goal to be
1908 zero carbon by 2030. We can achieve that goal while

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1909 continuing to deliver reliable and affordable electricity.
1910 But innovation sometimes requires that we rethink how we have
1911 approached problems in the past.

1912 One solution is to use demand response assets like smart
1913 thermostats, or managing ___ or managed charging of electric
1914 vehicles. Mr. Hay, can you explain how demand response can
1915 make the grid more reliable while also saving rate payers
1916 money?

1917 *Mr. Hay. Thank you. As Mr. Huston suggested earlier,
1918 there's a moment in time where utilities need a resource.

1919 *Ms. Matsui. Mm_hmm.

1920 *Mr. Hay. And in some states, that's going to be a gas
1921 peaker plant. In some states, it's going to be demand
1922 response, and to earlier comments, you know, that unit of
1923 energy you don't have to create is going to be your cheapest,
1924 lowest carbon unit of energy available. That's the ___ that's
1925 what demand response provides, that opportunity when a
1926 utility needs it not to have to generate, but to rely on
1927 their customers to reduce energy consumption, and usually be
1928 compensated for that.

1929 *Ms. Matsui. Okay. In Sacramento, SMUD is working to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1930 pilot virtual power plant technology. Electric vehicles are
1931 particularly important for a virtual power plant because they
1932 both use and store significant amounts of energy at different
1933 times. Mr. Hay, can you explain how electric vehicles can be
1934 used to reduce demand on the grid and provide energy to the
1935 grid without inconveniencing rate payers?

1936 *Mr. Hay. This is something that we're actually working
1937 on closely with one of our largest regulated utilities in the
1938 state, Xcel Energy. Where it really comes down to managed
1939 charging programs, and that as you build those programs,
1940 ensuring that customers have an opportunity as part of that
1941 program to basically tell the utility when to charge, when
1942 not to discharge, and how much of that battery has to be
1943 there, and the customer then gets compensated for it. So,
1944 it's making sure that there's flexibility through the
1945 utility, but also decision making rests with the customer.

1946 *Ms. Matsui. Okay. Well, thank you very much. I yield
1947 back.

1948 *Mr. Duncan. The gentlelady yields back. I'll now go
1949 to Mr. Palmer for five minutes.

1950 *Mr. Palmer. Thank you, Mr. Chairman. One of my main

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1951 concerns is about __ obviously about grid reliability, and I
1952 was looking at a report from the mid_continent independent
1953 service operator and their concerns despite importing I want
1954 to say 3,000 megawatts __ still concerns about being able to
1955 adequately meet demand. Mr. Huston, do you have those
1956 concerns?

1957 *Mr. Huston. Well as a matter of practice, RTOs
1958 exchange electrons every day. Sometimes it's in more acute
1959 situations than others. During one of the most recent winter
1960 storms, the 6,000 or six gigawatts of electricity would be
1961 exchanged to support the needs of another RTO. But overall,
1962 as consumption and load grows, we need to make sure that we
1963 have the proper resources in place and fulfill our
1964 responsibility that the grid itself is reliable. And yeah, I
1965 do have concerns, and that's the reason why we're soliciting
1966 direct input from the RTOs on how they manage their job in
1967 moving those electrons throughout the footprint.

1968 *Mr. Palmer. Yeah, but what MISO is really concerned
1969 about is the fact that we shut down so much of the
1970 hydrocarbon base power generation, and we're not replacing
1971 the capacity at a fast enough rates.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1972 It reminds me of what some of my colleagues are
1973 advocating for in taking down the dams in Washington State,
1974 70 percent of the power in the state of Washington comes from
1975 hydro, but when I asked them what they were going to replace
1976 it with, they couldn't give me an answer.

1977 *Mr. Huston. Mm_hmm.

1978 *Mr. Palmer. It's like they think magically we'll just
1979 replace it with something, and you can't build anything in
1980 this country. We had a discussion about __

1981 *Mr. Huston. There's at least a three year __ or, a
1982 three year __ at the bare minimum of getting through a queue
1983 process to getting something in the ground, you're right.

1984 *Mr. Palmer. Yeah, and permitting and then lawsuits and
1985 everything else. Sounds like they'll be cooking over wood if
1986 they get rid of their dams, but the other issue __ and
1987 Chairman Duncan brought it up __ is moving to nuclear. And I
1988 know Georgia power has built VOGTEL. I visited the VOGTEL
1989 facility, but I'm a major proponent of small modular
1990 reactors.

1991 I really think that's the future of clean power, and
1992 it's also __ one of the huge advantages is that you can

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1993 recycle spent fuel. I asked the director of our National
1994 Nuclear Laboratory how long we could operate just using spent
1995 fuel and he said over a hundred years. Is that ___ has that
1996 got to be part of the mix?

1997 I'd just like your response, Mrs. Pridemore, because
1998 you've gone through what you've gone through with trying to
1999 get VOGTEL operational, but I really think the smaller
2000 modular units are really the future.

2001 *Ms. Pridemore. Thank you, sir, for the question.
2002 ASMRs show bright promise, but it's getting the first five to
2003 ten built, and that is an area where we have been asked today
2004 as state regulators ways that the federal government could
2005 assist. That is certainly a way that the federal government
2006 could assist. I can attest to ___

2007 *Mr. Palmer. On the permitting, just being able to get
2008 them started?

2009 *Ms. Pridemore. Permitting, finances.

2010 *Mr. Palmer. Mm_hmm.

2011 *Ms. Pridemore. Just building the first five to ten
2012 SMRs, you'll get economies of scale from that. You'll have a
2013 workforce, and the learning and the knowledge that comes from

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2014 that construction.

2015 I'll give you a great example. Plant VOGTEL Unit three,
2016 to get it to hot functional testing, we were able to take
2017 nine months out of the schedule in this ___ in the fourth
2018 unit, just from the knowledge and the understanding that came
2019 through doing it the first time.

2020 *Mr. Palmer. Mm_hmm.

2021 *Ms. Pridemore. And so that is an area where the
2022 federal government could certainly assist in the growth and
2023 development of SMRs.

2024 *Mr. Palmer. Okay, and one of my major concerns here is
2025 how grid reliability is a national security issue, and we
2026 keep talking about going to renewables and EVs, and you know,
2027 a reliance on batteries.

2028 I just ___ Mr. Chairman, I didn't bring this to the
2029 committee's attention earlier, but if you look at battery
2030 manufacturing capacity by country, China controls 69 percent
2031 of it. The US is ten percent, and does that tell people, we
2032 don't make batteries. We assemble batteries from parts that
2033 we import from China and other countries.

2034 So, my concern here is as we continue to shut down

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2035 hydrocarbon based power production, and try to move more to
2036 renewables, that we're creating a national security issue for
2037 ourselves, not only just on our grid reliability. I mean,
2038 North American Electric Reliability Corporation said the
2039 single biggest threat is changing the resource mix. How
2040 would you respond to that, Mr. Huston?

2041 *Mr. Huston. Well, as I tried to mention in previous
2042 comments, having an all_of_the_above, which would include
2043 coal, which includes gas, which includes nuclear, which
2044 includes renewables, gives us diversification of the
2045 portfolio, and a strength and a resiliency.

2046 The commodities, along with coal and gas, fluctuate in
2047 their pricing. Sometimes they trace each other, but if there
2048 is a problem with one, it wouldn't be necessarily with
2049 another, and that's where diversification comes in. So, the
2050 idea and thought of having more nuclear, small, modular,
2051 coal, gas, solar, wind all working together probably
2052 strengthens us as a country.

2053 *Mr. Palmer. Thank you. Mr. Chairman, just for
2054 clarification purposes, that figure that is cited on battery
2055 capacity, that's for 2027.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2056 *Mr. Duncan. Wow. Well, I thank the gentleman and his
2057 time has expired. I will now go to Mr. Tonko for five
2058 minutes.

2059 *Mr. Tonko. Thank you, Mr. Chair. No one here is
2060 suggesting that decarbonizing the grid will be easy. We need
2061 to utilize every tool possible to ensure our electricity
2062 system remains reliable, affordable, and clean, which I
2063 believe is both possible and necessary.

2064 Based on Mr. Hay's testimony, it sounds like Colorado is
2065 a great model for this, proving that states can make
2066 tremendous progress in decarbonizing their generation mixes,
2067 but also proving that states need robust, long term plans.

2068 Success will require pursuing many strategies, improving
2069 permitting and siting of new renewables, building energy
2070 storage, expanding interregional transmission infrastructure,
2071 and improving the performance of our existing infrastructure.

2072 But one strategy that is often overlooked in these
2073 discussions is energy efficiency. According to the
2074 International Energy Agency, efficiency could be responsible
2075 for 40 percent of the greenhouse gas emissions reductions
2076 needed by 2040. So, Mr. Hay, is energy efficiency an

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2077 important strategy for achievement of Colorado's clean energy
2078 goals?

2079 *Mr. Hay. Thank you, Representative. It's an
2080 absolutely essential part of what we've been doing, and going
2081 forward as our studies suggest, it can meet anywhere up to
2082 nine percent of our energy needs.

2083 So, as we see energy use increasing, we can bend that
2084 curve a little bit with energy efficiency, but a really
2085 important component of that that doesn't get talked about
2086 sometimes is what it can mean for customers in helping them
2087 manage and reduce their energy bills. It really is an
2088 affordability component as well.

2089 *Mr. Tonko. Thank you. Can you say a little bit more
2090 about how reducing energy demand improves overall system
2091 reliability?

2092 *Mr. Hay. And that's going to be an interesting
2093 challenge going forward, as we see more cars coming onto our
2094 electrical grid, as we see more homes coming onto our
2095 electrical grid, but really making sure that the utilities
2096 are able to balance and manage that system where we're seeing
2097 more consistent use of electricity over the hours of a day

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2098 and hours of a year.

2099 That growth and that flattening out actually results in
2100 a downward pressure on rates to customers. We've already
2101 seen that in Colorado from one of our electric vehicle
2102 planning proceedings for our largest utility.

2103 *Mr. Tonko. Thank you. We've heard today that many
2104 states are projecting a resurgence in industrial electricity
2105 demand, in large part I believe due to manufacturing
2106 incentives that are enacted during the Biden Administration.
2107 So, Mr. Hay, how can demand response programs help integrate
2108 these large energy users without compromising reliability?

2109 *Mr. Hay. Thank you, Representative. And if I may, I
2110 would highlight actually a slightly different story in
2111 Colorado in answering your question. We have a steel mill
2112 that is powered by one of the largest solar facilities in the
2113 United States, and it's helping to produce green steel. But
2114 to your question, demand response is an essential component,
2115 especially for large industrial customers.

2116 We in Colorado do it in a way that gives the flexibility
2117 to the customer and the utility to work together to help
2118 manage that load, and I think that's an important part of

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2119 that. We're not telling producers and manufacturers you
2120 can't have power when you need it. It's really making sure
2121 you have a program that works for both of them.

2122 *Mr. Tonko. Thank you, and Mr. Hay, your testimony also
2123 mentioned building energy codes. What are the benefits of
2124 adopting these latest codes?

2125 *Mr. Hay. This is something we've done a lot of work on
2126 in the Colorado energy office, and again, it really has
2127 multiple layers of benefits. From an energy and a climate
2128 perspective, we're not needing energy in that building, so
2129 we're avoiding having to build new power plants, and
2130 customers aren't having to pay for those power plants.

2131 For customers, it means that they have lower energy
2132 costs overall, and frequently more comfortable homes, and to
2133 our earlier conversation about sort of the flattening of the
2134 grid, again, there's a benefit to all of the other customers.
2135 So, advanced energy codes are really important there, but I
2136 think one of the big pieces of it is you start with a
2137 building that needs less energy, and going forward that
2138 carries in time. And so, you're really avoiding energy and
2139 carbon emissions over the long term of a building.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2140 *Mr. Tonko. Thank you. The Inflation Reduction Act
2141 included significant tax credits and rebates, some of which
2142 will actually be administered by state energy offices.

2143 *Mr. Hay. Mm_hmm.

2144 *Mr. Tonko. To support efficiency, how is the Colorado
2145 energy office working to inform residents of these new
2146 opportunities?

2147 *Mr. Hay. Yeah, we __ thank you, Representative. We
2148 actually have a building decarbonization team in our office
2149 that is working with local jurisdictions to help get the word
2150 out through local building officials, through our network of
2151 contractors. We're also producing a website to help
2152 customers understand all the rebates and incentives that they
2153 are eligible for. I would say that we're using multiple
2154 channels to try and get the word out that there really are
2155 opportunities.

2156 *Mr. Tonko. Thank you so much, and finally, I know a
2157 lot has been said about costs imposed by EPA standards, so I
2158 would like to remind everyone that downwind states like New
2159 York feel the effects of unregulated pollution upwind, and
2160 with that, sir, I'll yield back.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2161 *Mr. Duncan. The gentleman yields back. I'll now go to
2162 Mr. Bucshon for five minutes.

2163 *Mr. Bucshon. Thank you, Mr. Chairman, and I apologize,
2164 I have another hearing upstairs __ are we upstairs? Yeah,
2165 we're upstairs __ downstairs. Mr. Huston, your testimony
2166 illustrates the effectiveness of an all of the above energy
2167 strategy, and I fully believe in that. We should pursue all
2168 of these things.

2169 Energy policy doesn't need to be a zero sum game. We
2170 can utilize renewable sources of energy like solar and wind,
2171 as well as traditional sources of energy like coal and
2172 natural gas.

2173 The truth is we need a mix of these energy sources for
2174 the foreseeable future to balance each other. The wind isn't
2175 always blowing and the sun doesn't always shine. Data from
2176 the Energy Information Agency shows that coal and nuclear
2177 power nearly doubled on the national grid during the 2021
2178 winter storm when needed most while weather dependent sources
2179 like wind and solar were unreliable during the entirety of
2180 the weather event. In fairness though, there were also
2181 challenges from poorly winterized natural gas sources, and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2182 that needed to be corrected.

2183 In a hearing in this committee just last year, Frederick
2184 Bressler, senior VP of market services at PJM Interconnection
2185 identified the rate of retirement of fossil fuel resources
2186 largely due to state and federal policies as outpacing
2187 construction of new renewable sources.

2188 We know that dispatchable resources such as coal and
2189 natural gas provide the grid with stability for maintaining
2190 capacity during peak demand, reserve margin, frequency
2191 regulation, voltage control, buffering against variable
2192 energy sources, and the list goes on.

2193 Mr. Huston, your testimony echoed this concern
2194 highlighting the rising expense passed onto the rate payers.
2195 Given the rapid changes occurring within the US grid,
2196 including the retirement of dispatchable resources such as
2197 coal and gas, exacerbated by federal regulations and
2198 policies, a point often reiterated in testimonies within this
2199 room, do you believe these transformations are enhancing the
2200 grid's resilience, or are we getting ahead of ourselves and
2201 making the grid more vulnerable?

2202 *Mr. Huston. Well, as the adoption of renewables

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2203 increases, it increases the need for us to have resources
2204 available to make up for when they're not available. And so,
2205 that's the reason why our energy ___ or, our utilities are
2206 required to do integrated resource planning that anticipates
2207 in a probabilistic way how the future may unfold. With
2208 additional renewables, whether it's wind, solar, and
2209 fulfilling their obligation to serve customers
2210 simultaneously, one of the messages that we got loud and
2211 clear from our general assembly is to not compromise on
2212 service reliability.

2213 So, that's the reason why they passed five pillars,
2214 including reliability, resiliency, and stability all under
2215 that umbrella to make sure that as we approach the future,
2216 that at least as Hoosiers that we're doing it in a way that
2217 meets the needs of the future for a reliable system.

2218 *Mr. Bucshon. And I would agree with that. Does the
2219 vulnerability caused by generation uncertainty lead to any
2220 cybersecurity concerns?

2221 *Mr. Huston. Well, there's been some discussion about
2222 potentially demand response and aggregation in some ways, and
2223 we have invited the FBI and Homeland Security both at the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2224 state and national levels to brief us on cybersecurity
2225 threats on multiple occasions, including having our
2226 investor_owned utilities appear before us.

2227 And I think one of the concerns that's expressed is not
2228 only criminal conduct, which through ransomware and all those
2229 kinds of things, but state actors that may be involved, and
2230 how down chain manufacturers who supply energy products are
2231 protected. Cybersecurity is incredibly important to grid
2232 reliability, and that's the reason why we pursue that
2233 modality in our ___ in our commission.

2234 *Mr. Bucshon. Yeah, I mean, that's definitely on the
2235 radar here in Washington. You know, critical infrastructure,
2236 for example, which includes the energy sector, needs to be ___
2237 needs to be protected from cybersecurity.

2238 I have a few seconds left, so how does state commissions
2239 manage divergent state approaches to energy policy with your
2240 neighbors? Maybe we'll see what Mr. Myers has to say about
2241 that, because states are different, right?

2242 *Mr. Myers. States are different, and you know, we have
2243 a lot of transmission interconnects with the states that
2244 neighbor us, and that's part of our integrated resource

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2245 planning. That's pretty much how we manage it, is through
2246 the IRP process.

2247 *Mr. Bucshon. Okay, fair enough. Mr. Hay, quickly?

2248 *Mr. Hay. We partner, you know, with some of our
2249 states, but we maintain a regular dialogue across the western
2250 states.

2251 *Mr. Bucshon. Yeah, fair enough. I'm out of time,
2252 unfortunately. I yield back.

2253 *Mr. Duncan. The gentleman's time has expired. I'll
2254 now go to Ms. Castor for five minutes.

2255 *Ms. Castor. Thank you, Mr. Chairman. Mr. Hay, my
2256 colleagues in oil and gas companies would have us believe
2257 that the only way to achieve grid reliability is with dirty
2258 fossil fuels. I think that's dangerous, and it's costly. In
2259 fact, a new scientific analysis finds that gas plants are
2260 particularly vulnerable to extreme weather events, like heat
2261 waves and cold snaps, which are growing in severity and
2262 frequency amid the heating climate.

2263 Cold weather presents particular challenges. We saw the
2264 harsh conditions from the winter storm in 2021, again in
2265 2022, where gas plant failures occurred at disproportionate

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2266 rates relative to clean energy sources.

2267 In one case, over 240 people in Texas perished. It left
2268 families without power in freezing temperatures, and bills
2269 skyrocketed. What are the grid vulnerabilities associated
2270 with gas plants and highlight how clean energy sources like
2271 wind, solar, and batteries help support reliability and
2272 resilience?

2273 *Mr. Hay. Thank you, Representative. You know, in
2274 Colorado during Winter Storm Uri, our wind largely, you know,
2275 stayed up and operational when the wind was blowing, because
2276 we had appropriately weatherized and winterized plants. The
2277 same was true of our gas infrastructure in Colorado.

2278 We didn't experience the same problems that other states
2279 did. So, I would say the first part of that is really
2280 important, and adequate planning, you know, to the earlier
2281 conversation about changing weather and changing climate, I
2282 think the utilities and utility regulators need to make sure
2283 that they are looking forward at the impacts of what the
2284 future weather may be, rather than looking backward and
2285 expecting that that's going to tell us what the weather will
2286 look like. So, those are certainly two big components of

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2287 that.

2288 With respect to the role of renewables, in Colorado, you
2289 know, they performed when they were needed, and they provide
2290 a reliable asset to our utilities. I think it's really been
2291 about the integration and the planning of the weather. Xcel
2292 Energy, our largest investor_owned utility, has invested in
2293 some of the most sophisticated weather modeling among the
2294 utilities, and it really allows them to project and forecast
2295 very close in time when those resources will be available to
2296 them.

2297 *Ms. Castor. Thank you. Commissioner Pridemore, your
2298 testimony caught my eye, because in it you claimed that if a
2299 utility, say in this case, Georgia Power, violates a law or
2300 an EPA rule, then, "customers are left to pay for the fines
2301 and any resulting costs from legal actions.''

2302 Now, that strikes me as a strange statement coming from
2303 a public utility commissioner, because the commission decides
2304 whether or not it's appropriate for Georgians to pay those
2305 costs on their power bill. It isn't something that's
2306 guaranteed.

2307 It's a choice that you and the utility commission would

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2308 have to decide. Why do you think it's appropriate for
2309 Georgians to have ___ to pay the cost of Georgia Power's
2310 lawsuits, and why should ___ why should the utility be able to
2311 challenge the law using Georgia rate payer dollars, and also
2312 fund their lobbying and political expenses?

2313 *Ms. Pridemore. Thank you for the question. In the
2314 state of Georgia, Georgia Power has the legal right to seek
2315 recovery of the cost of operating their business, including
2316 lawsuits and the related costs for lawsuits. Especially
2317 those that are brought up by unnecessary federal government
2318 actions.

2319 *Ms. Castor. Well, there's been a rash of scandals all
2320 across the country. I think everyone in the utility business
2321 understands what's happened in Ohio with First Energy.
2322 Florida Power and Light in my home state was found funding
2323 political consultants to fund ghost candidates to challenge
2324 legislative critics.

2325 Carolina Water, CommEd in Illinois, New York with
2326 National Fuel, Michigan ___ it's ___ and now in Georgia, the
2327 southern company, the parent company of Georgia Power has
2328 been actively engaged in lobbying against new transmission

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2329 lines and other cleaner, cheaper energy sources.

2330 Southern reported spending 191 million in activities
2331 related to political influence from 2015 to 2020 alone in
2332 annual filings to FERC, far more than other utilities. Has
2333 the Georgia Public Service Commission approved the use of
2334 rate payer funds for lobbying and other political activity?

2335 *Ms. Pridemore. As much as I can see from afar of
2336 issues that have happened and according to other states,
2337 that's not the reality that I have in Georgia. So __

2338 *Ms. Castor. Well, did the commission approves those?
2339 And here __ you don't have __ answer for the record because
2340 I'm running out of time. Many people don't think that's
2341 fair, and it's causing electric bills to go sky high, and I
2342 know that in Colorado __

2343 *Mr. Duncan. The lady's time has expired.

2344 *Ms. Castor. __ you passed a law to prevent that, and
2345 I've also filed a new Ethics in Energy Act, and I'd like you
2346 all to comment on the record with a follow up question to you
2347 on the appropriateness of those kind of funds.

2348 *Ms. Pridemore. I'd like to address the question.

2349 *Mr. Duncan. The gentlelady's time has expired. I will

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2350 now go to Mrs. Lesko for five minutes.

2351 *Mrs. Lesko. Thank you, Mr. Chairman, and I really want
2352 to thank Commissioner Myers from Arizona for coming here and
2353 representing our great state of Arizona, and for all your
2354 great work. I think it's very common sense work that you do
2355 to benefit the Arizona rate payers.

2356 *Mr. Myers. Thank you.

2357 *Mrs. Lesko. I also want to recognize your daughter
2358 sitting behind you, Zoe, the committee __ yay, Zoe. Well,
2359 it's great that you get to visit with your dad and learn
2360 about all these great things, and hopefully you'll get to see
2361 some sights here in Washington, DC, and have a little bit of
2362 fun.

2363 Mr. Myers, in your written testimony, you said your
2364 priorities in this order are grid reliability, rate payer
2365 affordability, and then cleaner technologies, and I want to
2366 say I totally agree with your priorities.

2367 Just last week, the Arizona Corporation Commission took
2368 steps to dial back some of the costly renewable energy
2369 standards and tariff rules that were going on since 2006, I
2370 think. Hopefully this will be a model for other states to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2371 follow.

2372 Because of our reasonable approaches in Arizona, we have
2373 been a magnet for new businesses coming to our state. Many
2374 of these businesses are fleeing California due to their
2375 single priority, which is a hundred percent renewable energy.
2376 California is actively against policies that are affordable
2377 and reliable.

2378 The average residential utility bill in Arizona is \$138
2379 per month. We have very hot summers, so our usage is much
2380 higher to keep people cool. However, if we had the same
2381 rates as California, the average bill would increase to \$274
2382 a month, doubling the cost.

2383 I am working on draft legislation that will address grid
2384 reliability and affordability, so I'm very interested in all
2385 of your views in this area. My first question for
2386 Commissioner Myers is, the EPA's power plant proposal
2387 effectively requires carbon capture and storage, or clean
2388 hydrogen, two commercially unproven technologies, to reduce
2389 carbon emissions by 90 percent. Since these technologies are
2390 unproven, can you discuss the potential reliability problems
2391 EPA's proposal would create for Arizona?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2392 *Mr. Myers. Absolutely. Thank you for the question. I
2393 believe our ___ one of our utilities used the words
2394 aspirational and unproven when they were describing it,
2395 because that's exactly what it is. Those technologies are so
2396 much in their infancy that they are extremely expensive, the
2397 timeline is extremely rushed, and there is absolutely no
2398 infrastructure in place to handle either one of those
2399 technologies.

2400 We have power plants that are outside of ___ you know,
2401 they're kind of out in the rural areas. Well, you can't pipe
2402 hydrogen, for example, long distances. You have to convert
2403 it to ammonia and convert it back. That is extremely
2404 expensive. There is no infrastructure in place to handle any
2405 of that.

2406 It would absolutely increase costs dramatically to
2407 Arizona utilities if we had to do that. It might also
2408 accelerate the closure of certain plants because of these
2409 requirements.

2410 These requirements ___ the dates on them, I believe, are
2411 carbon capture by ___ would have to be installed by 2030, and
2412 hydrogen blending would have to be 2032. Those are extremely

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2413 accelerated dates, and that might end up changing the
2414 timelines of our reliable energy shutdown. So, that ends up
2415 being a reliability problem for us.

2416 *Mrs. Lesko. Well, thank you very much for that answer,
2417 and Mrs. Pridemore, I think you wanted to talk about the last
2418 statement from my democratic colleagues, so I'll give you a
2419 chance to do that.

2420 *Ms. Pridemore. Thank you, Congresswoman Lesko. I
2421 don't want to correct any member of the committee, but the
2422 gentlelady's question was relative to the holding company. I
2423 regulate the ___ one of the operating companies. The
2424 activities of Southern Company are not regulated and
2425 certainly not under my authority.

2426 *Mrs. Lesko. Thank you, and in the few seconds I have
2427 left, Commissioner Myers, can you discuss how the natural gas
2428 system contributes to the overall reliability and resiliency
2429 of the energy system?

2430 *Mr. Myers. Absolutely. Natural gas is our reliable
2431 dispatchable energy. So without that, we have no backup when
2432 the sun doesn't shine. Batteries simply are not there. They
2433 ___ you know, for as much battery storage that we have, it is

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2434 only two to four hours top, and we have one utility that's
2435 been waiting ten years to get the batteries they've ordered.
2436 So, the supply chain issue is a big deal. So, the only
2437 option we have right now is natural gas for our reliable back
2438 up.

2439 *Mrs. Lesko. Thank you very much, and I yield back.

2440 *Mr. Duncan. The gentlelady yields back. I now
2441 recognize Representative Cardenas for his five minutes of
2442 questioning.

2443 *Mr. Cardenas. Thank you, Chairman Duncan, and also I'd
2444 like to thank Ranking Member DeGette for holding this
2445 important hearing. I appreciate the witnesses sharing your
2446 expertise and your opinions on this matter. The importance
2447 and value of a reliable power grid is undeniable. Every day,
2448 over 340 million Americans rely on it to keep the power on,
2449 and also to keep the number one economy in the world, energy
2450 is critical.

2451 Unfortunately, it's also undeniable that our nation's
2452 energy system is facing substantial evolving and complex
2453 challenges that put reliability at risk. I think we can all
2454 agree that preserving access to reliable electricity should

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2455 be a top priority for all of us.

2456 In my district for instance, we are seeing crisis level
2457 heat waves at increasing rates. During those heat waves,
2458 having reliable air conditioning can quickly become a matter
2459 of life and death.

2460 Multiple studies, including the Department of Energy's
2461 national transmission needs study, have indicated that within
2462 regions that interregional transmission capacity will hold
2463 the largest benefit for reliability.

2464 Mr. Hay, in your testimony, you also state that
2465 accelerating the build out of interregional transmission is
2466 key to both minimizing costs to electricity consumers, and
2467 increasing the reliability and resilience of the grid. Can
2468 you expand upon why interregional transmission is necessary
2469 to ensure reliability for communities throughout the region,
2470 particularly during extreme weather events?

2471 *Mr. Hay. Thank you, Representative. And I suppose one
2472 way to think about that is if you have a grid that's bigger
2473 than the weather system, then you actually have those
2474 renewable resources outside of that weather impacted area
2475 that are then able to supply those resources back into those

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2476 communities. And so by building out that interregional
2477 transmission, we hopefully can get to a grid where it is
2478 bigger than the weather system.

2479 *Mr. Cardenas. Thank you. I also want to make it clear
2480 that in my district, reliability of electricity is not the
2481 only priority. For environmental justice communities like
2482 the one I represent, it is also a public health imperative to
2483 reduce dangerous emissions that pollute our communities.
2484 Luckily, reports have indicated that utilities already have
2485 the tools to both cut carbon pollution and maintain
2486 reliability. There is also evidence that transmission can
2487 help move fossil fuel plants out of environmental justice
2488 communities that are already overburdened by pollution.

2489 Mr. Hay, given that many aging plants are retiring and
2490 going offline, can you expand on the role grid modernization
2491 could play in reducing carbon pollution, and making cleaner
2492 energy available and accessible to such communities?

2493 *Mr. Hay. I thank you, Representative. And that's
2494 actually something that's really important to the state of
2495 Colorado, and partially why in this legislative session we're
2496 working both on our distribution grid and our transmission

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2497 grid.

2498 You know, as we think about grid modernization by
2499 getting a 21st century distribution grid, we make it possible
2500 to build more renewable energy and more clean energy in
2501 communities. So, giving communities solar and rooftop solar
2502 to what we in Colorado call disproportionately impacted
2503 communities is one of the things that we are looking at.
2504 That's a statutory term in Colorado.

2505 And then, you know, making sure that we have a robust
2506 distribution grid so that we can build out to where those
2507 renewable energy resources are. One of the things that we
2508 did in Colorado that I think can be a model is we've actually
2509 enabled one of our utilities to build a system in advance of
2510 actually having the generation so that now we can hook up
2511 those renewables to match up with the timing that we have for
2512 need. And so looking at both the distribution and the
2513 transmission system is going to be key to bring those clean
2514 energy resources up.

2515 *Mr. Cardenas. Thank you. While interregional
2516 transmission is an important opportunity to better support
2517 our communities, so is supporting local clean energy projects

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2518 and micro_grids.

2519 Last Congress, Democrats delivered a historic \$10.5
2520 billion in funding for grid reliability, resiliency, and
2521 flexibility projects. Mr. Hay, can you discuss how this
2522 funding will empower communities to develop micro_grids, and
2523 in turn how it will promote resiliency and reliability?

2524 *Mr. Hay. We are working with part of that funding to
2525 actually stand up a grant program for some of our rural
2526 electric cooperatives that is helping them actually develop
2527 an understanding of what micro_grids are all the way through
2528 the process of putting effectively steel in the ground to
2529 build those micro_grids, and what it does is it allows those
2530 communities to have power when the larger grid is otherwise
2531 unavailable to them perhaps from an extreme weather event or
2532 a localized outage. So, it really ensures just the
2533 opportunity to continue to supply power within that
2534 community.

2535 *Mr. Cardenas. Thank you. For far too long, our
2536 country and our world depended on fossil fuels far too much
2537 when it comes to power and power generation, but luckily
2538 today we do have technology, as long as we have the will to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2539 actually integrate a better system that is more integrated
2540 with different sources of power, I think we can have a better
2541 world. With my time having expired, I yield back.

2542 *Mr. Duncan. The gentleman yields back. I now go to
2543 Mr. Pence for five minutes.

2544 *Mr. Pence. Thank you, Chairman Duncan and Ranking
2545 Member DeGette, and thank you for the witnesses for being
2546 here today. I'd like to especially welcome Chairman Huston
2547 of Indiana's Utility Regulatory Commission, who is actually
2548 the Indiana Sixth District director also in his life. So, he
2549 knows more about my district than I do.

2550 So, Chairman Huston has served with the commission since
2551 being appointed by my brother, Governor Mike Pence, and is
2552 keyed into solving critical grid reliability issues facing
2553 Hoosier families and businesses. As Chairman Huston well
2554 knows, Indiana is a state that works. We have balanced
2555 budgets, a business family state government, and a state and
2556 state agencies that work prudently with industry to meet
2557 common goals of affordable, reliable, and safe energy for all
2558 Hoosiers.

2559 Importantly, IURC has implemented a five pillar

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2560 framework for our state's energy policies that the chairman
2561 mentioned, and those ___ the pillars are, protects
2562 reliability, affordability, resilience, stability, and
2563 environmental sustainability.

2564 I've heard from my peers on the other side that the
2565 technology exists to do all those things. I disagree in the
2566 many hearings that we've had over the last couple of years
2567 that technology does not exist. It's theoretical in many
2568 cases.

2569 However, the common sense approach of our home state has
2570 been inhibited by the onslaught of regulatory actions by the
2571 Biden Administration. At every turn, this administration is
2572 making it harder to produce, distribute, and use our nation's
2573 energy resources.

2574 As I have stated in this committee many times before,
2575 our nation is on a path towards catastrophic failures in our
2576 energy industry. Unfortunately the results of this misguided
2577 approach by the administration will be borne onto the
2578 consumer with higher prices and fewer economic opportunities
2579 for business, as the Chairman stated in his opening remarks.

2580 Decisions affecting electricity markets and their impact

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2581 on our grid are not overnight decisions. These affect long
2582 term investments, and could take years to fully realize. Mr.
2583 Chairman, in Richmond, Indiana, our public power agency
2584 operates a coal_fired peaker plant, White Water Valley
2585 Station, that you and I talked about a little earlier. And
2586 it's in MISO's region, and PJM's footprint comes over to
2587 Richmond as well.

2588 Because the plant only operates ten percent of the year,
2589 they had previously received exemptions from certain affluent
2590 limitation guideline requirements. During the two degree and
2591 one degree above zero for about two weeks, it was fired up
2592 and provided heat and electricity to the houses in my
2593 district.

2594 For a plant like White Water Valley Station who runs on
2595 slim margins, these exemptions are critically important to
2596 maintaining reliability in the region. Now as the EPA is
2597 re_imposing these regulations, White Water Station's
2598 retirement timeline has been accelerated by a number of
2599 years. Can ___ Mr. Huston, can you speak to the role of
2600 dispatchable peaker plants for reliability in our home state
2601 of Indiana?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2602 *Mr. Huston. Thank you, Congressman Pence. Yes, peaker
2603 plants have a substantial role in the overall delivery of
2604 electricity. As you stated in this particular facility, it
2605 may only be used ten percent of the time, but it's ten
2606 percent of the time when it's most necessary.

2607 I think one of the other members talked about vulnerable
2608 populations. Whether it's in the winter months, or whether
2609 it's in the summer months, and typically peakers operate more
2610 in the summer months, you want those vulnerable populations
2611 to have the air conditioning that they need when power is at
2612 its scarcest.

2613 The systems that are built in our state and elsewhere in
2614 the country are built to meet peak load, plus have reserve
2615 margins, and those peaking facilities are a part of that
2616 matrix. So, it's important to have peaking facilities
2617 available to meet those circumstances, whether it's in the
2618 winter or weather it's in the summer when they're most
2619 needed.

2620 *Mr. Pence. All right, thank you for that, and I
2621 appreciate you pointing that out. I mean, you know, we have
2622 lots of windmills and solar panels in the district as you

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2623 pointed out ___

2624 *Mr. Huston. That's exactly right.

2625 *Mr. Pence. ___ in your ___

2626 *Mr. Huston. And close to Richmond, Indiana, there are
2627 abundant rich windmills in Randolph County, and north of that
2628 in Jay County as well that all hook up to the PJM
2629 interconnect. They're all in that strike zone of Northern
2630 Indiana where wind at 50 feet above ground is optimal.

2631 *Mr. Pence. And it would have been a catastrophe had
2632 that plant not been up and running?

2633 *Mr. Huston. That's exactly right, but that's the role
2634 that peaking plants often play. And as the grid changes,
2635 those peaking plants may be called on more frequently than
2636 what they had in the past.

2637 *Mr. Pence. Thank you, sir. My time is expired, and I
2638 yield back.

2639 *Mr. Duncan. The gentleman's time has expired. I now
2640 go to Ms. Kuster? Right? Yeah, Ms. Kuster for five minutes.

2641 *Ms. Kuster. Thank you so much for hosting the hearing,
2642 Chairman Duncan and Ranking Member DeGette. Last month, 45
2643 major companies, including Best Buy, eBay, General Motors,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2644 Pepsi, and Walmart wrote to the Federal Energy Regulatory
2645 Commission urging the commission to finalize a pending
2646 regional transmission planning rulemaking to, "lower energy
2647 customer costs, improve reliability, and modernize our grid
2648 to meet growing demands across the country so that the United
2649 States is positioned to capture innovation, growth, and
2650 jobs.'" These electricity buyers note that our energy system
2651 is literally the backbone of the nation's economy.

2652 Mr. Hay, my first question is to you. Do you believe
2653 that our electric transmission system is keeping pace with
2654 the significant demand growth that we're seeing from
2655 reshoring manufacturing here to the United States, and the
2656 electrification of the transportation and residential sector?

2657 *Mr. Hay. In the modeling that we did looking out from
2658 2030 to 2040, and thinking about the fact that that will lead
2659 in Colorado to something close to a 40 percent increase in
2660 electricity need, one of the things that we stepped back from
2661 that and did is actually this year, legislatively, we are
2662 looking at bills to help build out the 21st century grid of
2663 the future on the distribution side, and to accelerate
2664 permitting and do permitting reform on the transmission grid.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2665 I think those are both places where the federal
2666 government can and should step in and play a role to support
2667 the states that are looking to do that, because
2668 representative, we are all going to need to invest in our
2669 transmission architecture, and our distribution architecture,
2670 to keep pace with both manufacturing and the levels of
2671 electrification that are coming.

2672 *Ms. Kuster. Thank you, and I agree. Turning now to
2673 energy markets. I am a proud capitalist. I believe
2674 competition improves quality and lowers prices, and that's
2675 why I've been so surprised in this hearing to hear that some
2676 of my colleagues on the other side of the aisle bemoan
2677 competition in electricity markets.

2678 Before we introduced competition in the electricity
2679 markets in the 1990s and 2000s, states' electricity systems
2680 were literally regulated monopolies. This meant consumers
2681 were forced to pay whatever the price was set by the utility
2682 and approved by the state's regulator, and we've been through
2683 this in New Hampshire with very high costs.

2684 Competitive markets, which by the way, were a bipartisan
2685 idea, have broken up these monopolies in many parts of the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2686 country, and enabled electricity consumers to enjoy the
2687 benefits of competition. Lower prices, more reliability, and
2688 efficient investment.

2689 In contrast in monopoly markets, and I look to the state
2690 of Georgia, consumers end up on the hook for supposedly
2691 prudent investments, even when there are significant cost
2692 overruns.

2693 The VOGTEL nuclear reactor three and four offer a good
2694 example. After unprecedented delays and cost overruns, this
2695 year, the Georgia Public Utility Commission has approved
2696 nearly \$10 billion in costs associated with the construction
2697 of the VOGTEL power plants going into Georgians' electricity
2698 bills. By one estimate, Georgia rate payers' electricity
2699 bills are going to increase \$168 a year to pay for this
2700 construction.

2701 Mrs. Pridemore, it's puzzling that your testimony
2702 complains about EPA regulations' impacts on rate payers, but
2703 makes no mention of the VOGTEL's price tag. What advice can
2704 you offer for other regulators to learn from the VOGTEL
2705 experience, and avoid similar costly mistakes that would be
2706 borne by consumers?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2707 *Ms. Pridemore. Thank you for the question, Ms. Kuster.
2708 I want to clarify though the cost considerations for VOGTEL.
2709 The commission approved back in December a \$7.7 billion final
2710 price of the project. That was ___ then started to appear in
2711 customer rates in the January bill. We're very proud of the
2712 60 to 80 year asset that plant VOGTEL is and will be long
2713 into the future.

2714 *Ms. Kuster. What has the impact been on consumers?

2715 *Ms. Pridemore. We had a \$3.17 a month bill impact off
2716 unit three, and then a total bill impact of just over \$12.
2717 So, that is also ___

2718 *Ms. Kuster. Does that include all of the cost
2719 overruns, or what happened with the cost overruns?

2720 *Ms. Pridemore. The commission reached a stipulated
2721 agreement with Georgia Power over exactly what the customer
2722 would pay, and exactly what Georgia Power would cover in
2723 their costs. So, the shareholders of Georgia Power, they
2724 absorb some of the costs as well.

2725 *Ms. Kuster. And do you know what the total cost
2726 overruns for the project were?

2727 *Ms. Pridemore. I don't have it directly in front of

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2728 me. We did VOGTEL construction monitoring twice a year
2729 through two large cases where we provided in a very
2730 transparent public format everything that was happening
2731 onsite with the project.

2732 Earlier when I was asked about SMRs, that's one of my
2733 pieces of advice to other states that are looking at nuclear.
2734 The importance of having a transparent long scale process
2735 where you monitor the construction not only from a time and
2736 schedule standpoint, but also from a cost consideration.

2737 *Ms. Kuster. All right, my time is up. Thank you, I
2738 yield back.

2739 *Mr. Duncan. The gentlelady's time expired, and I can
2740 tell you from a state that had a nuclear project going on at
2741 the same time as Plant VOGTEL that rate payers in South
2742 Carolina are still footing the bill for the cost overruns,
2743 and the failure of that project, and not generating a single
2744 electron of power.

2745 So, I know the Georgia folks are happy that plant VOGTEL
2746 is online generating power, and will be for 60 to 80 years,
2747 whereas in South Carolina, we lost 2,000 megawatts of power
2748 for the future. So, I will now go to Mr. Armstrong for five

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2749 minutes.

2750 *Mr. Armstrong. Thank you, Mr. Chairman, and I feel
2751 like I start every one of these hearings with the basic
2752 caveat that everything is cheaper if you give it a tax break
2753 or a subsidy, not just renewable energy; everything is
2754 cheaper if you give it a tax break or a subsidy, and I wish
2755 my colleagues from California and Florida were here to talk
2756 about cold weather energy production. It's something we know
2757 a little bit about in North Dakota.

2758 And you know what we think environmental justice is?
2759 Making sure the heat comes on when it's 70 degrees below wind
2760 chill, and to give you an idea of why we don't have wind
2761 turbines going when it's 35 below is because we don't make
2762 them, because it's incredibly expensive to heat them, and why
2763 would they?

2764 The average lifespan of a wind turbine is 20 years. Six
2765 months regular maintenance. Anybody have any idea when the
2766 average repower of a wind farm is? It's ten years. Anybody
2767 know why? Because that's when the repower tax credit kicks
2768 in. We create these policies __ Mrs. Pridemore, I
2769 appreciated your answer when you said the responsibility ends

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2770 with you for the power coming back on. I just wish we didn't
2771 tie one hand behind your back all the time. Today, MISO is
2772 running 27.3 percent coal, 37.6 percent natural gas, 14.2
2773 percent nuclear, 8.3 wind, 5.0 solar. That's today. But
2774 when it's 70 degrees below zero? There's no wind. Not __
2775 zero. And so, coal and natural gas spikes.

2776 And Mr. Huston, when you talk about all of the above
2777 energy, I think we do this so often, and I will be the first
2778 one to admit Republicans were late to the game on this
2779 conversation.

2780 We were late on carbon, we were late on climate change,
2781 we were late on all those things. So, now we take on those
2782 buzzwords and those catch words. The problem with
2783 all_of_the_above is it only works if the pie chart stays in
2784 equilibrium.

2785 Because at some point in time, intermittent weather
2786 dependent energy, when it gets too big to be __ too big on
2787 the pie chart, what happens to coal or natural gas plants?
2788 They go out of business. They have to make money every day
2789 so they're running __ you were just talking about peaker
2790 plants with Mr. Pence, but they have to make money every day,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2791 otherwise they're not available when we need it, when it is
2792 70 degrees below zero.

2793 So, I asked this when FERC was in here before, and then
2794 I want to talk to you about RTO load forecasting __ that
2795 should be riveting __ however, it's very important. We're
2796 the greatest country in the history of the world, and let's
2797 just assume through all the renewable utopia that exists, we
2798 can power this entire country for 360 out of 365 days a year
2799 on wind and solar.

2800 What do we do the other five? Does the government __ do
2801 state governments subsidize coal plants, natural gas plants,
2802 nuclear plants? Does the federal government subsidize those
2803 things? Or does the greatest country in the history of the
2804 world just go dark for five days a year? I hope it's not in
2805 January in North Dakota, because otherwise we've got serious,
2806 serious problems.

2807 One of the goals of the Office of Electric Reliability
2808 is to coordinate with ISOs and RTOs among other entities to
2809 facilitate electric reliability and security. Mr. Huston, I
2810 talk to you, because it's MISO and it's what we love, but
2811 you're aware of FERC evaluating RTO load forecasting. Can

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2812 you explain just briefly how this forecast has an impact on
2813 generating units?

2814 *Mr. Huston. Well, we're all concerned about load
2815 forecasting, because the future may be somewhat uncertain in
2816 what electric load looks like over the horizon, if there is a
2817 certain amount of adoption in transportation electrification,
2818 it could have a magnificent impact on load forecasting, but
2819 that's not our experience in Indiana.

2820 *Mr. Armstrong. So, generators in my state have raised
2821 concerns that MISO has been under forecasting load, which
2822 incentivizes distributed generation at the expense of
2823 dispatchable generation. Load forecasts that are based on
2824 preferred political outcomes rather than reliability
2825 jeopardize the overall well_being of the grid.

2826 We know that the Sierra Club and the National Resource
2827 Defense Council have evaluated influencing PJM forecasting
2828 because these organizations claim that PJM is muting price
2829 signals that are essential to attracting the right kind of
2830 resources, also known as weather dependent power supply.
2831 Meanwhile, the North American Electric Reliability
2832 Corporation has noted that RTOs like MISO can face challenges

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2833 in meeting the above normal peak demand if wind generator
2834 energy output is lower than expected. So, the Sierra Club
2835 and the NRDC want RTOs to have a lower load forecast to
2836 support the deployment of wind, but at the same time, the
2837 nation's chief reliability evaluator says that it can make
2838 the grid more unreliable.

2839 In its after_action report on the 2021 winter storm, SPP
2840 explicitly mentioned the importance of fuel assurance and
2841 resource adequacy as essential parts of responding to future
2842 reliability events, and I think what people don't recognize,
2843 we had brown outs in North Dakota during that storm. That
2844 storm went from the Canadian border to the Gulf of Mexico.
2845 So, shouldn't resource adequacy be foundational in the single
2846 most important decision to this conversation?

2847 *Mr. Huston. It is to us.

2848 *Mr. Armstrong. Thank you. I yield back.

2849 *Mr. Duncan. The gentleman yields back. I will now go
2850 to Dr. Schrier for five minutes.

2851 *Ms. Schrier. Thank you, Chairman Duncan, and thank you
2852 to all of our witnesses for being here. I also want to say a
2853 special thank you to the committee Chairwoman

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2854 McMorris_Rodgers, she's announced her retirement. It's been
2855 a pleasure to work with her, another Washingtonian.

2856 I'm really glad that the majority has called a hearing
2857 on grid reliability. In the northwest, we enjoy abundant,
2858 non_emitting hydropower, in addition to the extreme weather
2859 and catastrophic wildfires that we associate with climate
2860 change, there's also going to be impacts to hydropower in
2861 Washington State.

2862 The hydropower system is deeply integrated with the
2863 water cycle. Rain keeps rivers flowing in the winter and the
2864 spring, but it's the melting snow from the mountains that
2865 gives us consistent flows during the dry hot summer months
2866 when demand for energy spikes.

2867 Climate change brings more rain and less snow pack, and
2868 over the last 70 years, we've already seen that snow pack
2869 shrink by a third, and it's accelerating, and this will
2870 likely affect reliability, particularly in the summer months
2871 in these next decades.

2872 So as we think about adding energy sources, this
2873 committee has shared a lot of concerns about renewables
2874 introducing new considerations, namely variability, and the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2875 presumed need for more baseload energy sources, specifically
2876 nuclear energy.

2877 So Mr. Hay, I was intrigued to see that as Colorado
2878 plans how to meet anticipated increased energy and
2879 reliability demands with non_emitting sources, your research
2880 has determined that along with clean hydrogen and geothermal,
2881 solar, wind, and battery storage will be the best, most
2882 reliable, most economical solution, and it will comprise the
2883 majority of your portfolio.

2884 So, I have two questions. One is a social one. In
2885 Washington State there's some resistance to installing solar
2886 and wind farms in rural areas in order to meet the rest of
2887 the state's needs, much of which is in large cities. How are
2888 you managing what I presume are similar social struggles in
2889 Colorado, and how can energy offices and agricultural rural
2890 interests work together to get a favorable outcome for
2891 everybody?

2892 *Mr. Hay. I __ thank you, Representative. And like
2893 Washington, Colorado has a large rural population and a large
2894 rural land area, and that happens to be where many of our
2895 best wind and solar resources are. And like Washington, our

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2896 load centers are our big cities which, you know, are Denver
2897 and Colorado Springs and Fort Collins.

2898 You know, we ___ one of the things that we have done in
2899 our energy office is partner with our Department of
2900 Agriculture to look at an aggregable tech program to really
2901 work with farmers to help them understand that it's not
2902 renewables or farming, it's really you can do both on your
2903 land, and there's a long term benefit to them.

2904 The same is also true of wind, is really just making
2905 sure that the land owners understand the benefits and being
2906 able to work and partner with them. That's the biggest part
2907 of it.

2908 *Ms. Schrier. Thank you, I appreciate that answer. I
2909 was also intrigued by your discussion of a hundred hour iron
2910 air batteries. Another concern that we have shared as a
2911 whole committee is that with traditional lithium batteries,
2912 we rely too much on China for materials, and that is a
2913 precarious state to be in.

2914 This emerging technology sounds very made in America,
2915 and I was wondering if you could comment a little bit about
2916 that if you're ___ if you know the technology, what else is

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2917 required, but I also don't mean to put you on the spot if
2918 that's not your expertise.

2919 *Mr. Hay. Thank you, Representative, and I would have
2920 to get back to you. I am ___ I am not a battery chemist.
2921 While I understand the regulatory part of that, and it's
2922 important that our largest utility is coming forward to test
2923 a hundred hour iron air battery, the chemistry of that I
2924 couldn't explain to you today.

2925 *Ms. Schrier. Well, thank you. I did a quick Google
2926 search. It sounds like they do not require the rare earth
2927 minerals, which is very nice to hear, and we also had
2928 commentary from the Department of Energy just about a week
2929 ago saying just wait, five or six years from now, we're going
2930 to have whole different technologies for batteries, which I
2931 found very reassuring as well.

2932 I have 30 seconds left. Can you talk, Mr. Hay, about
2933 the importance of interstate transmission? Looking at the
2934 map of the US, there's a lot of benefit to having regional
2935 plans, and I know you're not representing an RTO or an ISO,
2936 but if you could just speak to how that would help Colorado?

2937 *Mr. Hay. We've done a lot of studies looking at

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2938 Colorado entering into some form of an organized market in
2939 the west, and there really are a couple of layers of
2940 benefits. One is the economic benefit to customers, and the
2941 other is the ability to move clean power, and that comes with
2942 a climate benefit.

2943 *Ms. Schrier. Thank you. I yield back.

2944 *Mr. Duncan. The gentlelady yields back. Mr. Balderson
2945 is recognize.

2946 *Mr. Balderson. Thank you, Mr. Chairman, and thank you
2947 all for being here today. My first question is for Mr.
2948 Myers. In the coming years, states and utilities are
2949 expected to make substantial investments in energy
2950 infrastructure to ensure reliability. This is especially
2951 true in states like Ohio, and your home state of Arizona,
2952 both of which are seeing a significant increase in demand
2953 from new data centers and semiconductor manufacturing. Over
2954 the long run, some of these investments may be insufficient
2955 or unnecessary. As a state commissioner, how do you evaluate
2956 proposed projects to make sure your project rate payers, and
2957 how do you balance that with relying on the market?

2958 *Mr. Myers. That is an excellent question. We __ as a

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2959 ___ as a regulator, we go through an IRP process as well.
2960 It's a ten year forecast ___ or, a ten year outlook with a
2961 five year action plan, and we have them come in every three
2962 years to reevaluate. That's the time when we look at what is
2963 upcoming and what we should be focusing on.

2964 Right now, it is very difficult, because as we've talked
2965 about, all of our reliable generation is going away, but
2966 there is no good reliable generation to replace it. We are
2967 active in markets, as you've pointed out.

2968 We are actively looking at day ahead markets, but as far
2969 as energy generation, we need to be able to have our own ___
2970 cover our own rears, if you will, and that's a resource
2971 adequacy requirement that at least Markets Plus is looking
2972 at, is everybody needs to make sure they have their own
2973 generation, so we have to bring that to the table in order to
2974 join the markets.

2975 And it is a very difficult decision right now. We're in
2976 that transition period where we would love to see
2977 micro_nuclear, or even a hydrogen come on, but they're just
2978 too young at this point.

2979 *Mr. Balderson. Okay, good. Mrs. Pridemore, would you

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2980 like to follow up with that at all, or ___

2981 *Ms. Pridemore. Thank you, Mr. Balderson. I agree with
2982 Mr. Myers. There is a lot of options I believe that are on
2983 the table and available to us in the future. I think that
2984 what is important though is the speed at which we deploy
2985 those, and the way that we deploy new generation assets so
2986 that we don't overly burden customers with this exorbitant
2987 cost.

2988 *Mr. Balderson. Thank you. Mr. Huston, you're up next.
2989 I'm concerned that sometimes when we discuss new transmission
2990 development, it's not to responsibly build out a more
2991 reliable system, but rather because certain regions and
2992 states are irresponsibly driving dispatchable generation off
2993 the grid.

2994 Many times, this is to pursue unrealistic environmental
2995 goals, and then as many rate payers as possible to absorb
2996 cost and even if they don't benefit from that transmission.
2997 Is a large radius of intermittent generation such as wind and
2998 solar equal to a smaller radius of dispatchable generation,
2999 and at what cost?

3000 *Mr. Huston. Well, in Indiana, the proximity of

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3001 transmission to intermittent resources is key for them. They
3002 have to be close to transmission or they're not going to site
3003 it.

3004 It would make their competitiveness unsustainable. They
3005 would not be able to do it. That's the reason why Indiana
3006 gets a lot of solar, gets a lot of wind, is because we do
3007 have a significant amount of transmission. The biggest
3008 concern that I have is in some of the difference between the
3009 two RTOs that operate in Indiana.

3010 MISO's queue process for existing transition allows for
3011 them not to go to the back of the line if they're going to be
3012 repowering or reusing a specific site for generation __ if
3013 they're going to change their generation mix. PJM doesn't,
3014 and that is something through the stakeholder process that is
3015 being worked on currently. I'm not sure if that answers your
3016 question __

3017 *Mr. Balderson. Yeah.

3018 *Mr. Huston. __ but that is __ I have __ I do have
3019 concerns about the queue processes.

3020 *Mr. Balderson. Okay, thank you. Follow up, and I'll
3021 include you, Mr. Huston and Mr. Myers, and I'm going to let

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3022 Mr. Myers go first since you just finished. Do you both have
3023 concerns with neighboring states creating unrealistic
3024 renewable portfolio standards knowing they can rely on
3025 dispatchable resources from other states?

3026 *Mr. Myers. Absolutely. That is a concern, especially
3027 with our neighbor to the west. And this goes back to the
3028 resource adequacy planning where we want to make sure that if
3029 we do join a market that all the resource adequacy
3030 calculations are consistent amongst the states so that they
3031 can be counted the same, you know, in our __ in our planning.

3032 *Mr. Balderson. Okay. Mr. Myers? Or, Mr. Huston,
3033 excuse me. Pardon me, gentleman.

3034 *Mr. Huston. Our neighbor to the west has an ambitious
3035 goal as well, and it serves as an economic development
3036 incentive tool. We allow businesses to self_generate any
3037 kind of way they want to.

3038 *Mr. Balderson. Thank you both. Mr. Chairman, I yield
3039 back. Thank you.

3040 *Mr. Duncan. The gentleman yields back. I'll now go to
3041 Mr. Sarbanes for five minutes.

3042 *Mr. Sarbanes. Thank you very much, Mr. Chairman, and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3043 thanks to all of you. For states that have set deliberate
3044 clean energy goals, state energy offices and public service
3045 commissions, as you know, play a powerful role in advancing
3046 policies that foster sustainable and reliable energy. This
3047 is true in Colorado as we've heard today, and it is also
3048 certainly true in states like Maryland that participate in a
3049 regional electricity market.

3050 Maryland has set some of the most aggressive renewable
3051 goals in the country, but these goals will not be realized
3052 without a holistic and proactive approach to energy
3053 generation, storage, and transmission.

3054 For instance, the last coal fired power plants in
3055 Maryland are slated to retire in the coming years. Among
3056 these is the Brandon Shores Power Plant located in my
3057 district, and last year its operator announced it would
3058 shutter the plant in 2025. So, that's coming obviously very
3059 quickly.

3060 Maryland is reliant upon the mid_Atlantic's regional
3061 transmission operator, PJM Interconnection for grid
3062 operations and management, and PJM's response to the news of
3063 this closure has been to issue a reliability must run

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3064 agreement while it works to complete nearly \$800 million in
3065 transmission upgrades to compensate for the plant's power.
3066 As Maryland's energy mix moves away from fossil fuel, I am
3067 grateful that the public service commission in our state has
3068 been pushing for PJM to consider a wide suite of planning
3069 options to achieve reliability in a holistic, timely, and
3070 cost effective manner.

3071 Mr. Hay, I'm very impressed by this study the Colorado
3072 Energy Office has conducted to model how your state can meet
3073 projected energy needs while also decarbonizing your electric
3074 grid.

3075 Could you share your main take aways from that exercise?
3076 And I'm particularly interested to learn more about what you
3077 concluded the role of battery infrastructure is in your
3078 state, as in addition to the renewable energy and
3079 transmission build out, batteries could certainly be a key
3080 element of maintaining reliability in our state of Maryland.

3081 *Mr. Hay. I thank you, Representative. You know, I
3082 would say first of all the biggest take away is deep
3083 decarbonization is possible, and that there are multiple
3084 pathways to get there.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3085 It's really important to us that the business as usual
3086 approach then gets us to a 94 percent emissions reduction,
3087 and that really getting to a fully decarbonized electrical
3088 grid, the best way to do that according to our analysis is to
3089 set that target, and then in Colorado, we use our resource
3090 planning process, which for many of our utilities requires
3091 them to do competitive procurement.

3092 And so, we use that market to influence the overall cost
3093 of getting to that level of deep decarbonization. But I
3094 don't want to miss the importance of energy efficiency.
3095 We've talked a lot about that this morning. That's really a
3096 key piece of benefitting not just the grid, but benefitting
3097 customers and helping them lower and control their energy
3098 costs. It's a big piece of that affordability question.

3099 *Mr. Sarbanes. What about the battery infrastructure in
3100 particular?

3101 *Mr. Hay. Absolutely every scenario we looked at had a
3102 large investment in batteries, and different types of
3103 batteries from two hours up to a hundred hour iron air
3104 batteries.

3105 *Mr. Sarbanes. Mm_hmm.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3106 *Mr. Hay. That's something that has actually come
3107 forward in our most recent resource planning process with our
3108 largest utility is that we're going to be moving onto our
3109 grid a large chunk of batteries in the next several years in
3110 order to ensure reliability. We have every confidence that
3111 those batteries will be there when they're necessary.

3112 *Mr. Sarbanes. I appreciate it, and the study there in
3113 Colorado shows forethought of the kind frankly I'd like to
3114 see from PJM to maintain our grid's reliability and prevent
3115 avoidable cost increases for Maryland rate payers as it plans
3116 for the upcoming retirement of coal generated power, because
3117 obviously it's going to make these transitions. We've got to
3118 keep the average citizen first and foremost in our minds.

3119 Across the country, there's no doubt that increasing
3120 transmission capacity will be essential to minimizing costs
3121 to electricity consumers and maximizing grid resilience going
3122 forward. That's why we're so focused on this. Thank you all
3123 very much, and I yield back.

3124 *Mr. Duncan. The gentleman yields back, and now I'll go
3125 to Mr. Pfluger for five minutes.

3126 *Mr. Pfluger. Thank you, Mr. Chairman, and I appreciate

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3127 the witness's testimony today. Does ___ we've had a lot of
3128 discussions about the pillars. I think you have three, Mr.
3129 Hay. There's a couple that have five. Most important pillar
3130 that you ___ I mean, the single most important one that you
3131 consider?

3132 *Ms. Pridemore. Reliability.

3133 *Mr. Pfluger. Mr. Huston?

3134 *Mr. Huston. We were not allowed to rank them, but
3135 three of the five are related to reliability.

3136 *Mr. Pfluger. Mr. Hay?

3137 *Mr. Hay. Like Mr. Huston, we don't rank them, but
3138 certainly reliability is important.

3139 *Mr. Pfluger. Mr. Myers?

3140 *Mr. Myers. I was elected on a ranking, and its
3141 reliability.

3142 *Mr. Pfluger. Okay. All right. This is rare for us to
3143 have bipartisan agreement on these. So, I want to talk about
3144 that, because as resource adequacy truly is, I think, of
3145 national security level importance, Mr. Hay, you've said that
3146 there's going to be a 40 percent increase in the demand for
3147 electricity. Anybody have a different ___ I mean, or about

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3148 the same across the board?

3149 *Mr. Hay. We do not have any load forecast that would
3150 indicate that kind of increase. We ___ I apologize, I'm ___

3151 *Mr. Pfluger. Okay.

3152 *Mr. Hay. ___ giving you a long answer here.

3153 *Mr. Pfluger. That's okay.

3154 *Mr. Hay. But even with electrification, we ___ that is
3155 a great unknown.

3156 *Mr. Pfluger. It's an unknown, and we ___

3157 *Mr. Hay. We have a lot of reliance on gas for home
3158 heating, and that's what consumers choose. So, home heating
3159 would be one, but we're not seeing the shift in
3160 transportation.

3161 *Mr. Pfluger. Mrs. Pridemore, do federal policies
3162 affect resource adequacy, and the resources that we will have
3163 to supply a 40 percent increase in Colorado, or X amount in
3164 any of the states that are represented here?

3165 *Ms. Pridemore. Yes, sir. Most definitely. When you
3166 consider that the federal policies that are being proposed
3167 right now, such as those under the EPA, they will
3168 dramatically limit my accessibility to have my utilities use

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3169 dispatchable energy sources such as natural gas and coal.

3170 *Mr. Pfluger. Mm_hmm.

3171 *Ms. Pridemore. That takes away those elements out of
3172 my diversified mix. It definitely jeopardizes reliability,
3173 but it almost certainly increases costs for customers.

3174 *Mr. Pfluger. One of the pillars that you hadn't
3175 mentioned, and I wouldn't expect you to, is geopolitical,
3176 energy as a tool ___ as a geopolitical tool of national
3177 security.

3178 The administration has recently announced a ban on the
3179 export of LNG, which is a resource adequacy problem at the
3180 very foundation of it. Mr. Hay, what I want to talk about
3181 with you is, do you agree with John Kerry when he said that
3182 renewable energy is not baseload ___ not baseload capable?

3183 *Mr. Hay. What I would say, Representative, is that
3184 there really is a way to manage our system in Colorado. The
3185 study demonstrates that the least cost pathway to meeting
3186 future electricity would be about 40 percent relies on wind,
3187 solar, and batteries.

3188 *Mr. Pfluger. Colorado is lucky to have wind. I went
3189 to school there. It is windy. And I don't use the word best

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3190 of the above. I just don't believe in it. I don't believe
3191 in all_of_the_above.

3192 I believe in best of the above. So, I don't use this
3193 term, all_of_the_above. Colorado, you're lucky to have wind,
3194 I guess, and you should use it. But in your testimony, you
3195 mentioned in the written testimony that you're going to go to
3196 a two percent by 2040 gas powered __ gas driven electrical
3197 grid, yet you're not going to reduce the capacity of your
3198 gas.

3199 So, I'm not following here on, you're going to __ you
3200 are going to depend on 98 percent, even though 60 something
3201 __ 66 percent right now is serviced by other than renewable
3202 energy. So, how are you going to get to two percent gas, but
3203 you're going to keep that capacity?

3204 *Mr. Hay. Thank you, Representative. That's not
3205 actually state policy. That's the economics of gas compared
3206 __ the high cost of the economics of gas compared to the low
3207 cost of renewables. The modeling say that when you __ when
3208 you look at the best pathway going forward from an economic
3209 perspective, you keep the gas units around, but they just
3210 don't operate because they're so much more expensive than the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3211 renewables.

3212 *Mr. Pfluger. How will you avoid what Germany has done,
3213 which is going backwards? So, they thought they were
3214 transitioned, and then they realized that they weren't. So,
3215 how will you avoid that? And by the way, the second question
3216 is, could you accomplish your plan without federal subsidies?

3217 *Mr. Hay. So, to your first question, Representative,
3218 you know, that's why we did the planning we're doing, right?
3219 There are multiple pathways that demonstrate that we can get
3220 to a decarbonized grid. We have a business as usual
3221 approach. We have six different scenarios that have looked
3222 at a range of technology options that all get us there.

3223 *Mr. Pfluger. Can you get there without federal
3224 subsidies?

3225 *Mr. Hay. I don't know that any utility in the country
3226 actually is able to supply electricity to its customers and
3227 to its businesses without federal subsidies. We've
3228 subsidized coal, we've subsidized gas, today we subsidize
3229 renewables. So, I don't think it's a question of who is
3230 getting subsidies. I think it's a question of which
3231 subsidies we want going forward.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3232 *Mr. Pfluger. Mr. Chairman, my time has expired. I
3233 categorically disagree with the statement made by one of my
3234 colleagues about what happened in Texas, and want to note
3235 that it was not a failure of gas, but it was decisions that
3236 led to subsequent reactions and effects that then prevented
3237 some of the gas infrastructure to work, and I yield back.

3238 *Mr. Duncan. The gentleman's time has expired.

3239 *Ms. DeGette. Mr. Chairman, if I may just correct the
3240 record, the administration has not announced a ban on LNG
3241 exports.

3242 *Mr. Duncan. The Chair will recognize Mr. Griffith.

3243 *Mr. Griffith. Well, that wasn't __ that wasn't where I
3244 was going, but here we go. The gentlelady is correct. The
3245 administration did not announce a ban on LNG exports. What
3246 they announced was they weren't going to allow any new
3247 permits, which in essence shuts down all of the potential
3248 because everybody is afraid to go forward with liquified
3249 natural gas products or projects, whether it be, you know,
3250 facilities to export or pipelines to export, et cetera. So,
3251 the gentlelady is correct on one part, but future LNG gas is
3252 coming to a quick halt because of that announcement, and it

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3253 was just in a press release, it wasn't actual policy yet, and
3254 hopefully that will be better __ a more refined statement to
3255 come.

3256 All right, now let me get back to where I was going. To
3257 Chairman Huston, Commissioner Myers, and Commissioner
3258 Pridemore, EPA's clean power plan 2.0 could retire many
3259 generating units permanently __ or, excuse me, prematurely.
3260 Would you agree that the decreasing amounts of dispatchable
3261 generation and stricter environmental regulations are making
3262 requests for power plant operation waivers more and more
3263 likely? Yes or no?

3264 *Ms. Pridemore. Yes.

3265 *Mr. Huston. Yes.

3266 *Mr. Myers. Probably.

3267 *Mr. Griffith. Okay. Do you __ again to all three of
3268 you, that the 90 __ the 90 day as needed waivers are the best
3269 approach to ensuring reliability?

3270 *Ms. Pridemore. No.

3271 *Mr. Huston. No.

3272 *Mr. Myers. No.

3273 *Mr. Griffith. All right, now the loaded question.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3274 What do you think is better than the 90 day waiver?

3275 *Ms. Pridemore. No plan at all.

3276 *Mr. Huston. Take the rule back.

3277 *Mr. Myers. Take the rule back. Get rid of the ___ get
3278 rid of the restrictions in the first place.

3279 *Mr. Griffith. All right, Mr. Hay, just because I want
3280 to be fair, what do you think?

3281 *Mr. Hay. As my comments say, Representative, in
3282 Colorado we actually are already ahead of the curve, but I
3283 think the rule is, you know, one that Colorado can certainly
3284 succeed under.

3285 *Mr. Griffith. But if there is a significant number of
3286 states that can't, you can recognize that creates a problem
3287 for us in Congress. Maybe not in Colorado, but in Congress
3288 trying to look out for the interests of the whole nation.
3289 Would you not agree with that?

3290 *Mr. Hay. What I would suggest to you, Representative,
3291 is that the study that we've conducted lays out multiple
3292 pathways for states to look at sets of resources that can
3293 help them achieve deep decarbonization.

3294 So while there are some states today that have concerns

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3295 that they can't do it given the way that they are doing
3296 planning, our modeling suggests that if you __ if you do
3297 planning correctly, you actually can achieve the targets.

3298 *Mr. Griffith. You know, one of the concerns that I
3299 have is, is that I have an economically stressed area on
3300 household income, at about 400 of the 435 Congressional
3301 districts in the United States.

3302 And here's what happens when we start down this path
3303 towards all these new ideas, and maybe we can reach them, is
3304 that if you're living in the big city, and you're in one of
3305 those bigger buck areas, maybe you can afford it. Maybe it's
3306 not that big a chunk of your budget that's impacted.

3307 In my district, we're getting lots of letters because
3308 this winter the rates went up significantly, and while the
3309 average might only be \$35 a month, it's hurting folks because
3310 they don't have that \$35 a month.

3311 When you're making right __ when your household __ your
3312 average household for the whole district income __ household
3313 income is right at 50,000, \$35 a month when you're trying to
3314 pay for everything else and all of your other things are
3315 gone, that's very, very difficult. And all of these policies

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3316 have made our electric rates go up. I mean, there's no
3317 question about that. Mrs. Pridemore, I see you nodding. Do
3318 you agree with my statement?

3319 *Ms. Pridemore. Yes, sir.

3320 *Mr. Griffith. Mr. Huston?

3321 *Mr. Huston. Yes, I do.

3322 *Mr. Myers. Yes, sir.

3323 *Mr. Griffith. Mr. Myers, thank you. I appreciate
3324 that. I'm getting close to the end of my time, and I
3325 probably got on my high horse and ran out of time to ask a
3326 significant question in the remaining time that I have. I do
3327 appreciate you all being here, but sometimes people just have
3328 to say, you know, like I said, this may work for rich folks.
3329 That's not who I represent. I yield back.

3330 *Mr. Duncan. The gentleman yields back. Now I'll go to
3331 Mr. Veasey for five minutes.

3332 *Mr. Veasey. Thank you very much, Mr. Chair, and I'm
3333 glad that we are having this hearing today. I think that all
3334 of you guys know that in Texas, we're always trying to figure
3335 out how we're going to maintain a safe, secure, reliable
3336 grid, particularly with all the growth that we're having. I

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3337 mean, we are having unprecedented growth.

3338 I think I saw a report a couple of weeks ago that said
3339 that Texas is on pace right now to ___ after the next census
3340 to probably add four to six new Congressional districts,
3341 which means that our state is growing pretty rapidly ___ much
3342 more rapidly than any other area, and it has been that way.
3343 And as we've had growth, of course, we've also had extreme
3344 weather events like other places have across the country that
3345 haven't experienced growth.

3346 And in between record setting heat, extreme cold, and
3347 more industries like cryptomining calling Texas home, ERCOT
3348 is seeing a rapid increase in its load growth, and that is
3349 probably going to continue into the foreseeable future.

3350 ERCOT is lucky that this load growth is paired with
3351 strong growth and renewable capacity. We've seen about a 50
3352 percent increase from 2018 until 2023, and even so, we
3353 continue to push the grid to the brink of blackouts, and our
3354 failure to invest in grid infrastructure is a threat to our
3355 economic national security, and everything that we're trying
3356 to accomplish as we continue to add more and more people to
3357 our state.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3358 And so, I have a question for all of you. Recent
3359 studies indicate that the expanding and modernizing the
3360 transmission grid in just the Eastern US would unleash about
3361 7.8 trillion in investment and generate more than 6 million
3362 net new jobs.

3363 Do you agree that transmission build out, which uses
3364 iron, steel, and other US manufactured products, creates
3365 domestic, good paying union jobs, and in the __ good paying
3366 union jobs in the planning and engineering phase, as well as
3367 construction and long term operation and maintenance ops for
3368 line workers? Anyone can answer.

3369 *Ms. Pridemore. Yes, sir. I agree with your statement,
3370 and as a __ as a state that just finished what was the
3371 largest construction project at any given time in the country
3372 with 7,000 craft skill labor folks on site at Plant VOGTEL, I
3373 can tell you that it has made a significant difference.

3374 But I don't believe that we should build transmission
3375 infrastructure just to create jobs. I believe that we build
3376 transmission infrastructure to be able to transmit essential
3377 power to provide for a more reliable system.

3378 *Mr. Huston. Yeah, and I would agree with that too.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3379 Transmission by itself is not a reason to invest. It's to
3380 deliver electricity and the kind of electrons that are
3381 necessary to make a system work on a 24/7 365 basis.

3382 *Mr. Veasey. Yeah. You know, thank you, and I also
3383 want to ask everyone too, the Texas Energy Fund is the latest
3384 in a long line of changes in the wake of massive blackouts
3385 during Winter Storm Uri, and provides loans up to 60 percent
3386 of the total capital costs for new or expanded power plants.
3387 If you were on the Texas PUC, what considerations would you
3388 give to existing natural gas generators as they work to
3389 implement the Texas Energy Fund? Anyone want to __

3390 *Ms. Pridemore. Thank you for the question, Mr. Veasey.
3391 I steer clear of telling my fellow regulators how to run
3392 regulation in their states.

3393 *Mr. Veasey. Okay.

3394 *Mr. Huston. And I __ I don't want to beg off on this
3395 one, but I mean, Texas is a very unique situation. They've
3396 got eight percent load growth per year, and you've __

3397 *Mr. Veasey. Right.

3398 *Mr. Huston. __ referenced that.

3399 *Mr. Veasey. Right.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3400 *Mr. Huston. It's very unusual. We look at one percent
3401 load growth, which generally gets offset by energy
3402 efficiency, and \$10 billion, which is what that fund __ I
3403 think the low interest loan program is going to be, would be
3404 almost half of our state budget.

3405 *Mr. Veasey. Yeah. Also, another question for
3406 everybody before I leave. The nation's transmission grid is
3407 subject to thousands of sophisticated cyber attacks,
3408 including from hostile foreign nations, every day. What
3409 steps are your states taking to modernize and protect the
3410 grid, and how much responsibility do you think the federal
3411 government bears for high capacity transmission lines? I'd
3412 love to hear y'all's thoughts on that.

3413 *Ms. Pridemore. I would love to see the federal
3414 government more active in informing the states on what
3415 they're doing to prevent cyber attacks from foreign enemies.
3416 That is, when you look at the things that are outside of my
3417 control as a state regulator, that is certainly one of them.

3418 *Mr. Huston. When Former Vice_President Pence was
3419 governor of Indiana, he initiated the governor's task force
3420 on cybersecurity efforts. It's been perpetuated by

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3421 succeeding Governor Holcomb as well with the ___ with the
3422 interest in not just energy delivery, but all sectors.

3423 *Mr. Veasey. Mm_hmm.

3424 *Mr. Huston. And the FBI, the Justice Department, and
3425 other federal entities are critical participants in all of
3426 that exchange, and to be able to exchange data about threat
3427 risks, whether they're criminal or state actors.

3428 *Mr. Veasey. Okay. Thank you, Mr. Chairman.

3429 *Mr. Duncan. The gentleman's time has expired and he
3430 yields back. I'll now go to Mr. Allen for five minutes.

3431 *Mr. Allen. Thank you, Mr. Chair. Let me get this
3432 thing on. There we go. Thank you, Chair Duncan, for
3433 allowing me to wave on for this important discussion. I want
3434 to thank our witnesses.

3435 In particular, I especially thank Commissioner Tricia
3436 Pridemore for testifying today. It's great to have a Georgia
3437 commissioner here to discuss our vertically integrated public
3438 utility model, which is working very well. I'm proud that
3439 the state of Georgia is leading the way in innovation for
3440 supplying our constituents with affordable, reliable energy.
3441 Not only that, but Georgia has for the past, I think, 11 or

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3442 12 years, been the number one state to do business, and that
3443 requires a lot of resources, particularly energy and
3444 affordable energy.

3445 To meet the needs of our constituents and businesses,
3446 we've got to support all_of_the_above energy strategy. The
3447 ___ this means utilizing a diverse set of energy resources.
3448 Commissioner, you've talked about Plant VOGTEL, units three
3449 and four.

3450 You know, these are the first units built in over 30
3451 years, and I'm proud they've been built and now completed ___
3452 almost completed in the state of Georgia, and four is
3453 expected I believe to come online very soon. Commissioner
3454 Pridemore, can you explain why the Georgia Public Commission
3455 supported the ___ I mean, it's been 30 years, so we want to
3456 build two new nuclear units, and why was it important to the
3457 energy grid?

3458 *Ms. Pridemore. Thank you for the question, Mr. Allen.
3459 It's always good to see you. Plant VOGTEL represents a
3460 turning point for our state. It provides our state with
3461 energy security. It provides and sends a market signal to
3462 nations and other states, and businesses that are looking to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3463 relocate.

3464 It tells the world that we put a premium on energy.
3465 Carbon free, 24/7 365 power. It also sends a signal to the
3466 world that we're willing to do and take on these hard and
3467 difficult tasks not only for the benefit of our state, but
3468 also for the benefit of our country.

3469 I believe so strongly that our nation has everything
3470 that we need to be energy independent and energy secure, but
3471 yet we continue to put barriers up that preclude us from
3472 being able to have that reality. And I'm ___ I welcome the
3473 opportunity to be with you, to share our point of view in
3474 Georgia. We're proud of the work at Plant VOGTEL. It's a 60
3475 to 80 year asset.

3476 When I look at solar, which certainly has its place in
3477 the portfolio, but it's a 15 to 20 year PPA with a limited
3478 asset. I'm still in the very recent stages of figuring out
3479 what my retirement policy is for solar, how that is to be
3480 managed. There's just so many factors to consider where
3481 VOGTEL is really a shining star and something that we're
3482 proud of.

3483 *Mr. Allen. Yeah, we ___ you know, we develop all these

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3484 things, but very short sighted, and then like, what do you do
3485 when these things when, you know, the life expectancy. But
3486 yeah, going back to nuclear. Is there an equivalent to a
3487 24/7 baseload clean generation that we get from nuclear
3488 power? Especially considering the length of time that you're
3489 going to be in operation there?

3490 *Ms. Pridemore. No.

3491 *Mr. Allen. And does it cost very little once you get
3492 the capital costs to operate ___ that's some of the cleanest,
3493 most reliable, most efficient energy that you can produce?

3494 *Ms. Pridemore. Yes, sir.

3495 *Mr. Allen. Good. Many states, Commissioner Pridemore,
3496 have chosen to deregulate their electric utilities. I'm not
3497 here to question those choices for those states, but from my
3498 vantage point, that does not seem like the right choice for
3499 the state of Georgia or other states in the southeast. The
3500 states that elected retail choice seem to be struggling the
3501 most when it comes to reliability. So, commissioner, what
3502 does the value of utilities remaining vertically integrated,
3503 and what are the risk of deregulation for customers in
3504 Georgia?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3505 *Ms. Pridemore. Our vertically integrated system, with
3506 41 EMCs, 49 municipals, and one vertically integrated
3507 investor owned utility, provides us with little to no
3508 redundancy of assets, and we still have rates that are up to
3509 ten percent below the national average.

3510 It gives us an economy of scale that is unmatched in any
3511 RTO or ISO state. We also have the ability now through SEEM,
3512 the Southeastern Exchange Market, to be able to help export
3513 and help our neighbors when they need it, and import when God
3514 forbid we need to help ourselves.

3515 *Mr. Allen. Great. Well, listen, great to see you, and
3516 thank you for what you're doing in Georgia, and I yield back.

3517 *Mr. Duncan. The gentleman yields back, and the chair
3518 will now go to Mr. Carter from Georgia for five minutes.

3519 *Mr. Carter. Thank you, Mr. Chairman, and I appreciate
3520 the opportunity to wave onto this committee and this
3521 subcommittee. You know, as you are well aware, Mr. Chairman,
3522 I'm very proud of the state of Georgia. I know you're one of
3523 many who wished you lived in the state of Georgia, but
3524 nevertheless __ but __

3525 *Mr. Duncan. The gentleman's words need to be taken

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3526 down.

3527 [Laughter.]

3528 *Mr. Carter. But I'm especially ___ and I appreciate all
3529 of you being here, but I'm especially glad to see you,
3530 Commissioner Pridemore. I appreciate your work on public
3531 service commission. I appreciate everything you all do.
3532 We've known each other for many years and I appreciate all
3533 your work in the state of Georgia. I'm very proud of the
3534 state of Georgia.

3535 Everybody here knows that. I'm very proud of the fact
3536 that we are the number one state in which to do business for
3537 the 11th year in a row, I believe it is, and there's a reason
3538 for that, and one of ___ and many reasons, but one of the
3539 reasons is because we've got reliable, affordable energy.
3540 And we have done that ___ we're number six in solar energy in
3541 the state of Georgia.

3542 You know, there's ___ we've got a lot to be proud of in
3543 Georgia, but we got a lot of sunshine in Georgia, and we take
3544 advantage of that. We also, as you have been talking about
3545 with my colleague here from the state of Georgia, are
3546 nuclear.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3547 The first nuclear reactors built in 30 years right there
3548 in our state. I mean, this shows the kind of foresight that
3549 our commissioners have done such an outstanding job of, and I
3550 thank you for that, and our state thanks you for that. But
3551 you know, as I say, that's one of the primary reasons that we
3552 are able to be the number one state in which to do business,
3553 but let me ask you.

3554 As you know, Commissioner Pridemore, we've got the
3555 single largest economic development project in the history of
3556 our state in my district: the Hyundai plant. A \$5.5 billion
3557 investment that's going to create 8,100 jobs. Probably that
3558 much more of an investment in ancillary businesses, probably
3559 that many more jobs in ancillary businesses. We've got to
3560 prepare for that. What can Congress do? What can we do to
3561 help the utilities plan for this kind of growth?

3562 *Ms. Pridemore. Congress can first reign in the EPA. I
3563 think that that's essential, and I know that we've talked
3564 about that for many hours today. Georgia, to your point __
3565 and it's always good to see you, Mr. Carter __ we lead
3566 through innovation. We're very methodical.

3567 We're conservative in our approach, but we're very proud

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3568 of what's happening with Hyundai and the EV plant in your
3569 district. It represents an enormous opportunity not only for
3570 our state, but for the electric vehicle market in our
3571 country. But we're still in the position to route natural
3572 gas and do pipeline expansions to give them the necessary
3573 infrastructure that they need.

3574 So, it goes back to the all_of_the_above approach that
3575 is essential, and anything that this Congress can do to help
3576 us build more gas __ natural gas pipelines, and reign in some
3577 of these policies that are coming out of the federal agencies
3578 that are limiting __ they are limiting my ability to
3579 generate, they're putting unnecessary burdens on the backs of
3580 rate payers, and they're certainly limiting innovation.

3581 *Mr. Carter. And you know, I've gotten a number of
3582 letters from you and your fellow commissioners about just
3583 that, the fact that we need more access to natural gas, and
3584 the restrictions that have been laid upon natural gas exports
3585 here I think are just awful, short sighted for our economic
3586 development here in this country, and for the environmental
3587 impact worldwide that it's going to have, because we have
3588 clean natural gas here __ cleaner natural gas than anywhere

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3589 else.

3590 We should be exporting, and we should be doing just the
3591 opposite of what we're doing. But I also wanted to make sure
3592 that I mentioned, because I think what you touched on was the
3593 regulatory process, the permitting process. You know, I had
3594 the opportunity last year to travel to Huston on three
3595 different occasions.

3596 Every time I was there, it was the same thing.
3597 Regulations, permitting, crushing us. Crushing us. And
3598 that's what we need to be doing. Just to __ one more
3599 question, Commissioner Pridemore. Do you feel like you
3600 understand the energy generation and transmission needs of
3601 the citizens in Georgia more so than a bureaucrat here in
3602 Washington, DC?

3603 *Ms. Pridemore. Yes, sir. Beyond a shadow of a doubt.

3604 *Mr. Carter. And I would agree with you. Thank you
3605 again for being here. Thank you all for being here, and I
3606 will yield back.

3607 *Mr. Duncan. The gentleman yields back, and that will
3608 conclude the hearing. I want to thank all of our witnesses
3609 for being here today. Members may have additional questions.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3610 I know that Mrs. Fletcher mentioned that.

3611 For all of you, I will remind members they have ten
3612 business days to submit additional questions for the record,
3613 and I ask that witnesses do their best to submit responses
3614 within ten business days upon receipt of the questions.

3615 I ask unanimous consent to insert in the record the
3616 documents included on the staff hearing document list.
3617 Without objection, that will be the order, and without
3618 objection, the subcommittee will stand adjourned.

3619 [Whereupon, at 1:35 p.m., the Subcommittee was
3620 adjourned.]