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5 CLEAN POWER PLAN 2.0:

6 EPA'S LATEST ATTACK ON AMERICA'S ELECTRIC RELIABILITY

7 TUESDAY, JUNE 6, 2023

8 House of Representatives,

9 Subcommittee on Environment, Manufacturing,

10 and Critical Minerals,

11 Committee on Energy and Commerce,

12 Washington, D.C.

13

14 The subcommittee met, pursuant to call, at 10:30 a.m.,
15 Room 2322, Rayburn House Office Building, Hon. Bill Johnson
16 [chairman of the subcommittee], presiding.

17

18 Present: Representatives Johnson, Carter, Palmer,
19 Crenshaw, Joyce, Weber, Allen, Balderson, Fulcher, Pfluger,
20 Miller-Meeks, Obernolte, Rodgers (ex-officio); Tonko,
21 DeGette, Schakowsky, Sarbanes, Clarke, Ruiz, Peters,

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22 Barragan, and Pallone (ex-officio).

23 Also present: Representative Duncan.

24

25 Staff Present: Sarah Alexander, Professional Staff
26 Member, Energy and Environment; Kate Arey, Digital Director;
27 Sarah Burke, Deputy Staff Director; Sydney Greene, Director
28 of Operations; Jack Heretik, Press Secretary; Nate Hodson,
29 Staff Director; Tara Hupman, Chief Counsel; Sean Kelly, Press
30 Secretary; Peter Kielty, General Counsel; Emily King, Member
31 Services Director; Mary Martin, Chief Counsel, Energy &
32 Environment; Jacob McCurdy, Professional Staff Member,
33 Energy; Kaitlyn Peterson, Clerk, Energy and Environment;
34 Karli Plucker, Director of Operations (shared staff); Carla
35 Rafael, Senior Staff Assistant; Emma Schultheis, Staff
36 Assistant; Olivia Shields, Communications Director; Peter
37 Spencer, Senior Professional Staff Member, Energy; Michael
38 Taggart, Policy Director; Dray Thorne, Director of
39 Information Technology; Timia Crisp, Minority Professional
40 Staff Member; Waverly Gordon, Minority Deputy Staff Director
41 and General Counsel; Anthony Gutierrez, Minority Professional
42 Staff Member; Caitlin Haberman, Minority Staff Director,

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43 Environment, Manufacturing, and Critical Materials; Mackenzie
44 Kuhl, Minority Digital Manager; Kylea Rogers, Minority Policy
45 Analyst; and Rebecca Tomilchik, Minority Junior Professional
46 Staff Member.

47

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48 *Mr. Johnson. The Subcommittee on Environment,
49 Manufacturing, and Critical Materials will now come to order.

50 The chair now recognizes himself for five minutes for an
51 opening statement.

52 Well, again, good morning, and welcome to today's
53 hearing titled, "Clean Power Plan 2.0: EPA's Latest Attack
54 on America's Electric Reliability.'`

55 Since day one, President Biden has jeopardized America's
56 energy security by pushing a "whole of government climate
57 agenda'` that increases energy costs, degrades energy
58 reliability, and harms our economic and national security.
59 At the forefront of this regulatory onslaught is the EPA's
60 recent announcement proposing expensive and unproven
61 greenhouse gas emissions standards on electric generating
62 units, particularly coal and natural-gas-fired power
63 generation, which alone make up 60 percent of America's
64 electric generation capacity.

65 Under the Biden Administration's Clean Power Plan,
66 existing coal-fired generation must either, one, limit its
67 capacity factor to 20 percent; co-fire with 40 percent
68 natural gas; or capture 90 percent of its carbon dioxide with

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69 carbon capture technology. Similarly, natural-gas-fired
70 power generation must either, by varying dates, co-fire with
71 30 percent clean hydrogen; or install carbon capture and
72 sequestration and co-fire with over 90 percent clean
73 hydrogen.

74 Now, this sounds great, except the devil is in the
75 details. These requirements on this timeline -- and let me
76 emphasize "on this timeline" -- experts tell us are
77 infeasible and technically unattainable if the grid is to
78 remain operational. That is a big problem, and I look
79 forward to hearing more about this today.

80 I do wonder, though: Is that by design?

81 We are starting down a path to severe grid reliability
82 challenges throughout the country. In fact, a case could be
83 made that we are already there. Just a few months ago, the
84 nation's largest grid operator, the PJM Interconnection,
85 whose service territory covers the entire State of Ohio,
86 released a report noting it could face severe generation
87 capacity shortfalls by 2030. The report specifically noted
88 that existing EPA regulations, including the coal combustion
89 residuals, the good neighbor rule, and the effluent

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90 limitation guidelines are all reasons for this potential
91 capacity shortfall.

92 Add all this new regulatory attack on baseload
93 generation to that list, even though the proposal is not
94 finalized, it sends signals to the market that investing in
95 new gas-fired power generation or keeping existing units
96 operating through their service life is not economically
97 feasible.

98 In addition, the North American Electric Reliability
99 Corporation, in its annual summer reliability assessment,
100 warned that the vast majority of the country is at elevated
101 risk of insufficient operating reserves during above-normal
102 demand this summer -- not 2030, this summer. Let me
103 emphasize that.

104 This isn't happening by accident. These electric
105 reliability challenges are a direct result of onerous climate
106 regulations favored by many congressional Democrats and the
107 Biden Administration. The Biden Administration has no plans
108 to ensure more reliable generation capacity is connected to
109 the grid.

110 Due to the intermittent nature of renewable energy, a

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111 megawatt of wind or solar is fundamentally not the same as a
112 megawatt of coal, nuclear, or natural-gas-fired generation.
113 That is science folks, it is not -- it is a fact. Yet the
114 Biden EPA insists on regulating reliable sources of energy
115 out of existence.

116 The proposed regulation is another attempt by the
117 environmental left to fundamentally change our nation's
118 electric generation portfolio. This is -- this blatantly
119 contradicts a state's right to choose its own electric
120 generation mix, which is a core component of the Federal
121 Power Act.

122 We saw what happened last time they attempted to
123 regulate natural gas and coal out of existence. In a
124 landmark decision in West Virginia versus EPA, the Supreme
125 Court found that such sweeping regulations by the Federal
126 Government failed the Major Questions Doctrine, which states
127 that an action of major national importance must have
128 explicit direction from Congress. EPA had no such authority
129 then, and it has no such authority now to transform our
130 electric sector.

131 I am also concerned about the process by which this

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132 proposed regulation was developed. According to numerous
133 reports, the EPA submitted an original proposal to the White
134 House for review that did not include regulations on existing
135 natural-gas-fired generation. But after the White House had
136 a chance to review, the EPA reportedly revised the rule to
137 put existing natural-gas-fired generation in their
138 crosshairs.

139 They took this extreme action in spite of the fact that
140 natural gas makes up roughly 40 percent of our electric
141 generation portfolio, and is the primary driver behind
142 emissions reductions in the electric power sector. This is
143 further proof that this Administration is interested in
144 nothing else but decarbonization. Consumer costs and energy
145 reliability and resilience are afterthoughts in their pursuit
146 of a zero-carbon electric grid and a net-zero economy.

147 Thank you to our witnesses for being here today,
148 especially Mr. O'Loughlin and Mr. Snitchler, who hail from
149 the Buckeye State.

150 Thank you both for being here.

151 I look forward to hearing from each of our witnesses on
152 the harmful effects this proposed regulation will have on our

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153 energy sector reliability, resiliency, and affordability.

154 [The prepared statement of Mr. Johnson follows:]

155

156 *****COMMITTEE INSERT*****

157

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158 *Mr. Johnson. And with that, I yield back and I
159 recognize the ranking member from New York, Mr. Tonko, for
160 his opening statement.

161 *Mr. Tonko. Thank you, Chair Johnson, and thank you to
162 our witnesses for attending today.

163 Under the Clean Air Act, EPA has a responsibility and an
164 obligation to protect Americans' public health and the
165 environment from air pollution, and this does include carbon
166 pollution.

167 As we know, the power sector is the second largest
168 source of greenhouse gas emissions in our United States.
169 Many of the coal-fired power plants that we will hear about
170 today will have been operating for over 60 years by the time
171 EPA's proposed rule would require them to take any compliance
172 action. During those decades they have been able to emit
173 limitless carbon pollution without consequences. Now, do my
174 Republican colleagues truly believe these plants should
175 continue to be able to pollute at these levels for as long as
176 possible?

177 Section 111 of the Clean Air Act allows the agency to
178 establish standards of performance. Those standards are for

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179 new and existing electric generating units. EPA has
180 successfully used this authority to reduce air pollution
181 since the 1970s, and each time regulated entities have found
182 cost effective methods by which to comply with reasonable --
183 and with reasonable standards. This proposed rule will be no
184 different, but today I expect we will hear misrepresentations
185 of what is included in the proposal, and fearmongering about
186 how it will jeopardize grid reliability.

187 So I would like to be clear about what is actually in
188 the proposed rule.

189 First, the rule is reasonable. It is a far cry from a
190 government takeover of our power sector. On the contrary, it
191 is based on existing market trends, which include significant
192 coal plant retirements for economic reasons and increased
193 deployment of renewables. This is ultimately a modest rule
194 that builds upon the Inflation Reduction Act, which will
195 further support cost effective compliance with the proposed
196 standards.

197 Second, this proposal provides ample flexibility to
198 entities. The rule has proposed to regulate generating units
199 by subcategories, taking into consideration a variety of

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200 factors such as the size of units, when units plan to retire,
201 and just how often units intend to operate. It acknowledges
202 that, depending on the date of retirement, the cost
203 effectiveness of pollution controls will change.

204 Therefore, units planning to shut down within the next
205 15 years will need to take less stringent steps to comply,
206 and some units will not need to do much of anything at all.
207 This will avoid stranded assets from the installation of
208 pollution controls on power plants that will not operate for
209 long enough to make those investments recoverable.

210 The proposal also allows for several pathways for
211 compliance, and does not dictate a specific type of pollution
212 control strategy. Some units may choose to pursue carbon
213 capture, others may adopt hydrogen co-firing, and it provides
214 ample timelines by which they can strive for compliance,
215 which will allow utilities and grid operators to make those
216 long-term plans.

217 Third, this proposal is targeted. The most stringent
218 emissions controls will only be required on a small number of
219 the largest and, indeed, most-polluting power plants. These
220 are disproportionate polluters: 28 percent of power sector

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221 emissions come from just 45 facilities that provide only 11
222 percent of our nation's power. This rule intends that the
223 most polluting sources of carbon pollution take greater
224 action to reduce that pollution, and it ensures that smaller
225 units, which may have a role to play in grid balancing as we
226 achieve a cleaner electricity mix, are able to continue to
227 operate. For example, existing gas peaker plants, which do
228 not run as often, will likely not be covered at all.

229 Finally, I want to say a word on reliability. Despite
230 this rule being incredibly different from the Obama
231 Administration's Clean Power Plan, many of the attacks
232 against it remain unchanged. Back then we also heard scare
233 tactics that the rule would threaten reliability. What
234 happened instead? Before the rule would have even gone into
235 effect, market trends enabled nearly every state to achieve
236 the 2030 goals of the proposal. Just like then, today
237 members are vastly underestimating just how quickly our
238 electricity system is becoming cleaner, and how quickly
239 pollution control technologies will become cheaper.

240 Now, there certainly are steps Congress should take to
241 strengthen the reliability of our electric grid.

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242 Unfortunately, our Republican colleagues missed a huge
243 opportunity by failing to agree to any serious transmission
244 policies as part of last week's debt ceiling agreement. We
245 could have taken meaningful, common-sense steps to strengthen
246 transmission connections between and amongst regions. This
247 definitely would have enhanced grid resilience in the short
248 term, as we face increasing numbers of extreme weather
249 events, and the long term, as our electricity mix continues
250 to change.

251 Mr. Chair, I believe, despite what we will hear today,
252 EPA has taken a sensible, flexible, targeted, and certainly
253 achievable approach to reduce emission from some of the
254 largest carbon polluters in our country. I do look forward
255 to today's discussion. But more importantly, I look forward
256 to EPA finalizing this proposal.

257

258 [The prepared statement of Mr. Tonko follows:]

259

260 *****COMMITTEE INSERT*****

261

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262 *Mr. Tonko. And with that, Mr. Chair, I yield back.

263 *Mr. Johnson. The gentleman yields back. The chair now
264 recognizes the chair of the full Committee on Energy and
265 Commerce, Mrs. McMorris Rodgers, for five minutes for an
266 opening statement.

267 *The Chair. Thank you, Mr. Chairman. Thank you to our
268 witnesses.

269 Energy is foundational to everything we do, and
270 America's ability to harness it through innovation and
271 entrepreneurship has completely transformed the human
272 condition.

273 Energy powers our economy, and it is why America is
274 leading lifting people out of poverty and raising the
275 standard of living. And we have achieved this while being
276 the leader in emissions reduction and maintaining some of the
277 highest environmental and labor standards in the world.

278 In order to build on this remarkable legacy, we must
279 continue to innovate and take advantage of our abundant
280 natural resources for a diverse energy mix. Today, however,
281 more and more people in America are being forced to face the
282 threats of blackouts and brownouts. This is happening across

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283 the country. In California, rush-to-green policies are
284 driving out baseload and dispatchable generation in exchange
285 for less reliable weather-dependent substitutes. This crisis
286 is playing out in Texas, too, where over-reliance on weather-
287 dependent sources has limited its capacity to endure severe
288 regional weather.

289 Last year, the American -- North American Reliability
290 Corporation [sic], NERC, warned that more than half the
291 nation was at an elevated risk of forced blackouts during the
292 summer. This year NERC is projecting that number will be
293 roughly two-thirds of the nation.

294 The reliability of our electric grid is essential to
295 America's health and safety. Rushing to dismantle our
296 nation's electricity generation is not how we improve
297 people's lives and well-being. Yet the EPA has sought to use
298 the Clean Air Act to restructure the American power sector by
299 shutting down coal-fired power plants and shifting
300 electricity generation to weather-dependent sources.

301 These efforts to transform the nation's electricity
302 system would have damaging and lasting effects on reliability
303 for Americans across the country, and would go well beyond

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304 the EPA's congressionally mandated authority. The Supreme
305 Court ruled just that in West Virginia versus EPA when it
306 found that the EPA's efforts to circumvent Congress and
307 restructure the U.S. power sector through the Clean Air Act
308 were unconstitutional. Given the court's ruling, the EPA
309 must be completely transparent with the public about how its
310 sweeping new rules would jeopardize the reliability of our
311 electric grid and shut down our economy.

312 This morning the committee sent a letter to the EPA
313 Administrator Regan, demanding the agency extend its comment
314 period for the proposed greenhouse gas and power plant rules.
315 The EPA is setting a strict, costly, and untested standard on
316 both new and existing natural gas generators and remaining
317 coal generators, and the agency is doing it on an extremely
318 fast compliance timeline. This is unacceptable. This
319 complex proposal would affect the entire U.S. coal-generating
320 fleet, all future natural gas power plants, as well as
321 existing plants producing more than 300 megawatts of power.
322 These changes will have a chilling effect on American natural
323 gas, which is critical for generating electricity across the
324 country. It will make life more expensive across the board.

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325 It is clear these profound changes sought by the EPA
326 pose risk to the structure of our entire electric generation
327 and energy mix. The comment period on the proposal should be
328 extended to enable stakeholders time to evaluate and respond
329 fully.

330 In order to ensure the American people have access to
331 affordable, reliable energy to keep them safe, fed, and warm,
332 it is vital that we, the committee of jurisdiction,
333 understand and take actions to address the EPA's proposals
334 and what they mean for the nation's electricity systems, as
335 well as Americans -- America's energy leadership. That is
336 our goal today.

337 [The prepared statement of The Chair follows:]

338

339 *****COMMITTEE INSERT*****

340

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341 *The Chair. And I thank the witnesses for being here,
342 and I look forward to our discussion. I yield back.

343 *Mr. Johnson. The gentlelady yields back. The chair
344 now recognizes the full committee ranking member, Mr.
345 Pallone, for five minutes for an opening statement.

346 *Mr. Pallone. Thank you, Chairman Johnson.

347 Today we will be discussing the EPA's recently proposed
348 new carbon pollution standards for fossil fuel power plants.
349 This proposal is long overdue, and is critical to reducing
350 dangerous air pollution, fighting the worsening climate
351 crisis, and protecting communities across the nation. It
352 builds on the climate and public health investments President
353 Biden and congressional Democrats made with the Inflation
354 Reduction Act, and it is necessary now because the power
355 sector is the second largest source of climate pollution in
356 the United States, yet these power plants are still allowed
357 to spew carbon pollution without any oversight.

358 I think most Americans would be surprised to hear that
359 right now there are no limitations on how much carbon
360 pollution these power plants can emit. It simply defies
361 logic when you consider that, week in and week out,

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362 communities around the nation are devastated by extreme
363 weather events made worse by the climate crisis: lives are
364 lost; homes and livelihoods are destroyed.

365 Power plants are the single largest industrial cause of
366 global warming in the United States. They make up 25 percent
367 of all carbon pollution nationwide. With fossil fuel power
368 plants being such a significant tributary to dangerous air
369 pollution that only exacerbates the worsening climate crisis,
370 these proposed standards are an important complementary
371 action that will benefit all Americans, as well as our
372 environment and our economy.

373 Now, the EPA's proposal will finally set necessary
374 emission limits and guidelines for carbon pollution from new
375 and existing fossil fuel power plants. It will cut dangerous
376 carbon pollution and dramatically improve public health,
377 particularly for communities already overburdened by air
378 pollution. And this is critical to our ongoing efforts to
379 safeguard clean and safe air for all Americans.

380 The proposal is estimated to avoid up to 617 million
381 metric tons of total carbon dioxide through 2042. That is
382 equivalent to the annual emissions of roughly half of the

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383 cars in the United States. And within the same timeframe,
384 EPA projects that the proposed standards will result in up to
385 \$85 billion in net climate and health-related benefits. We
386 are going to save billions of dollars because Americans will
387 be healthier, thanks to this proposal's reductions in carbon
388 pollution.

389 Now, these are significant benefits, but my Republican
390 colleagues would rather ignore them as they continue to push
391 their polluters-over-people agenda. They have no problem
392 letting dangerous air pollution go unchecked. In fact, they
393 are opposed to this proposal. So today we will undoubtedly
394 hear arguments from the Republican majority about how EPA's
395 proposal is illegal, will shut down power plants and turn off
396 the lights. We have heard these claims before, and none of
397 them are true. In fact, they get rolled out whenever this or
398 any administration acts on air pollution or the climate
399 crisis.

400 Now, take the critical investments included in the
401 Bipartisan Infrastructure Law and the Inflation Reduction Act
402 to upgrade our nation's power infrastructure, strengthen the
403 grid, and cut power sector pollution with clean energy tax

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404 credits. Just because none of my Republican colleagues here
405 today voted for these laws doesn't mean they don't get --
406 exist. They did get enacted. The truth is the market,
407 bolstered by these few -- by these key Federal investments,
408 is already driving changes in the power sector. And EPA's
409 proposal merely builds on this existing momentum.
410 Republicans are simply not interested in finding solutions to
411 our carbon pollution problems. They are not interested in
412 developing a plan to help us reduce emissions while still
413 maintaining a safe, reasonably-priced electricity system.

414 The Clean Air Act is clear. EPA has both the authority
415 and obligation to protect Americans from dangerous carbon
416 pollution, and Republicans have not offered any practical
417 solution to address the serious threat of air pollution and
418 the climate crisis. Frankly, I think the Republican policy
419 of just say no to any climate action is just getting old.

420 In my opinion, the EPA's proposal, combined with the
421 historic climate investments Democrats made last Congress,
422 will put us on track to cleaner air, better health, a safer
423 climate, and a stronger economy.

424 [The prepared statement of Mr. Pallone follows:]

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425

426 *****COMMITTEE INSERT*****

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428 *Mr. Pallone. And with that, Mr. Chairman, I yield back
429 the balance of my time.

430 *Mr. Johnson. The gentleman yields back. We now
431 conclude with member opening statements. The chair would
432 like to remind members that, pursuant to the committee rules,
433 all members' opening statements will be made part of the
434 record.

435 We want to thank all of our witnesses for being here
436 today and taking the time to testify before our subcommittee.

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

440 Our witnesses today are Mr. Patrick O'Loughlin. He is
441 president and CEO of Buckeye Power and Ohio Rural
442 Cooperatives. Welcome.

443 Mr. Todd Snitchler is president and CEO of the Electric
444 Power Supply Association, or EPSA.

445 Mr. Jay Duffy is litigation director with the Clean Air
446 Task Force.

447 And Mr. Michael Nasi is a partner with the Jackson
448 Walker law firm.

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449 We appreciate you being here today. We will now
450 recognize Mr. O'Loughlin for five minutes to give an opening
451 statement.
452

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453 STATEMENT OF PATRICK O'LOUGHLIN, PRESIDENT AND CEO, BUCKEYE
454 POWER INC. AND OHIO RURAL ELECTRIC COOPERATIVES; TODD
455 SNITCHLER, PRESIDENT AND CEO, ELECTRIC POWER SUPPLY
456 ASSOCIATION (EPSA); MICHAEL J. NASI, PARTNER, JACKSON WALKER;
457 AND JAY DUFFY, LITIGATION DIRECTOR, CLEAN AIR TASK FORCE

458

459 STATEMENT OF PATRICK O'LOUGHLIN

460

461 *Mr. O'Loughlin. Thank you, Chairman Johnson.

462 Buckeye Power operates as a not-for-profit electric
463 cooperative owned by and serving 25 electric distribution
464 cooperatives that provide electric service to approximately 1
465 million Ohioans. Ohio Electric Cooperative members are
466 largely residential, and generally living in rural and lower-
467 income parts of the state.

468 Buckeye owns and operates a diverse set of generating
469 resources to meet the power demand requirements of our
470 members reliably and economically every hour of every day,
471 during normal weather, and during extreme weather events.
472 Today we use coal, natural gas, hydropower, biogas, and solar
473 generation, coordinated with an extensive demand response

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474 program to achieve this mission.

475 Buckeye Power has invested more than \$1 billion in
476 environmental control technologies over the last 20 years,
477 and achieved not only full compliance with all current
478 environmental regulations, but truly state-of-the-art
479 emission reductions.

480 Today, however, our electric power system is already
481 straining to provide reliable, continuous service.
482 Throughout the country we are experiencing supply emergencies
483 any time there is an extreme weather event. The demand for
484 electricity is continuing to increase, and is expected to
485 increase at an even faster pace as more and more end uses are
486 electrified, especially the growing demand for electricity to
487 fuel our transportation needs.

488 New generation additions in recent years have been
489 limited almost exclusively to natural gas, wind, and solar,
490 but they have not kept pace with the rapid and disorderly
491 retirement of coal-fired generation over this period.
492 Reliability challenges have continued to grow as that always-
493 available generation is increasingly being replaced by
494 intermittent renewable sources. These retirements and many

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495 more expected in the coming years have largely resulted from
496 a never-ending flood of environmental regulations.

497 EPA's existing 2020 wastewater discharge rule has caused
498 several more plants to plan to retire by 2028. EPA has since
499 proposed a new wastewater rule that creates even greater
500 hurdles to continued operation.

501 The proposed greenhouse gas rule for power plants forces
502 unproven emission control concepts on power plant operators
503 in unrealistic timeframes. If enacted, it will jeopardize
504 nearly every coal-fired power plant by 2039 and, in fact,
505 most by 2030. Buckeye Power will likely be required to shut
506 down all of our coal units by 2030, which currently supply
507 more than 80 percent of our annual energy requirements, and
508 we have nearly no hope of replacing this generation within
509 that short timeframe.

510 Carbon capture for coal-fired power plants has not been
511 proven on more than a portion of the flue gas at a few sites,
512 and has not been able to operate on a continuous basis at the
513 required removal rates that EPA proposes. Large-scale carbon
514 capture projects cannot be permitted, designed, procured, and
515 installed on more than a few units -- being those that are

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516 already in advanced design stages today -- by the 2030
517 deadline EPA requires in order for continued operation.

518 The more than 500-page rule follows 3 other major
519 environmental rules either proposed or finalized by EPA aimed
520 at fossil-fired power plants just this year, all with
521 somewhat questionable support from both an economic and
522 technical viewpoint.

523 We are a small company. Our entire office staff is
524 about 80 people charged with running a generation
525 transmission utility to meet our members' needs. We are not
526 a regulatory review company, yet we are forced to review and
527 comment on these very significant regulations in only 60
528 days. Our company and our member consumers can't afford to
529 implement full-scale science experiments at our production
530 facilities.

531 We all need a reliable electric system for our safety,
532 security, and well-being. We can and have implemented large-
533 scale environmental improvements at our power plants when we
534 have commercially available technology that has been
535 demonstrated at a reasonable cost. This proposed rule
536 ignores these needs that a well-functioning electric system

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537 requires.

538 Thank you for having me here today, Chairman.

539 [The prepared statement of Mr. O'Loughlin follows:]

540

541 *****COMMITTEE INSERT*****

542

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543 *Mr. Johnson. The gentleman yields back.

544 The chair now recognizes Mr. Snitchler for your five
545 minutes.

546

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547 STATEMENT OF TODD SNITCHLER

548

549 *Mr. Snitchler. Good morning, Chairman Johnson and the
550 committee. Try that again. Good morning, Chairman Johnson,
551 and to the committee. Thank you for the opportunity to
552 appear before the subcommittee this morning.

553 EPSA is the national trade association representing
554 America's independent power producers that compete every day
555 in regions operating competitive wholesale markets. I would
556 like to note that my testimony represents the position of
557 EPSA, and not necessarily the review -- the views of any
558 particular member.

559 EPSA members own and operate generating assets which
560 account for roughly 20 percent of the nation's installed
561 capacity. Those assets include nearly 115,000 megawatts of
562 natural-gas-fired generation. Members also own and operate
563 nuclear, wind, solar, battery storage, and coal resources.

564 EPSA's members have a deep commitment to the electric
565 grid and its reliability, and strongly support the clean
566 energy expansion. However, as -- even as this energy
567 expansion takes place, we cannot lose sight of job number

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568 one, which is to ensure reliability of the system.

569 To ensure reliability, the energy expansion must be done
570 by augmenting investment in clean resources with an
571 appropriate attention to dispatchable resources, and not
572 simply ignoring the impacts of efforts to drive dispatchable
573 resources from the grid.

574 I would like to highlight a few key aspects from my
575 testimony.

576 First, natural gas generation is critical, and a
577 critical component to electric grid reliability, and will
578 only increase in importance as variable weather-dependent
579 resources become a greater part of our generation mix. In
580 the coming years, natural gas generation will be even more
581 important to our electric grid reliability in an era of
582 evolving climate priorities.

583 As the nameplate capacity for wind and solar resources
584 on the electric grid increases, the potential volatility of
585 real-time renewable energy production increases, as well.
586 Grid operators will need sufficient dispatchable resources
587 like natural gas that can serve as a balancing resource as
588 renewable energy output rises and falls. The most prominent

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589 voices highlighting reliability concerns are NERC, FERC, and
590 the grid operators themselves: neutral, independent parties
591 with a great understanding of the threats facing the electric
592 grid.

593 Second, electrification policies are only going to
594 increase demands on the power grid at a time when state and
595 Federal policies and regulations are driving existing
596 dispatchable resources off the system. The electric grid
597 expansion is not about a static level of demand being met by
598 dynamic generation resources. Electrification policies are
599 going to continue to increase demand for additional
600 electricity generation. That means we will need more
601 resources, not less, and those resources will have to
602 complement each other to deliver on the goal of reliability.

603 Third, innovative technologies like carbon capture and
604 sequestration, long duration electric storage, and hydrogen
605 co-firing are promising, but are not yet commercially ready
606 for widespread adoption. Some who would dismiss concerns
607 about the loss of both natural gas and coal generation cite
608 advancements in both long duration battery storage and CCS
609 technologies to calm fears about reliability. It is

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610 important to note that, as of June 2023, not a single
611 commercial power plant in the United States uses CCS
612 technology, and there are no megawatts of long duration,
613 multi-day battery storage interconnected to the bulk power
614 system. Co-firing hydrogen with natural gas to reduce carbon
615 emissions is another developing technology that shows
616 promise, yet does not have significant commercial adoption
617 today.

618 Under the proposed rule, these technologies will be the
619 key pieces needed to ensure reliability. However, despite
620 not being widely used, there is an intense rush to disconnect
621 existing resources vital to economic -- to electric grid
622 reliability on the assumption that these not-yet-available
623 technologies will be available when they are needed.

624 The voices seeking to dismiss reliability concerns by
625 arguing the electric industry has always been able to meet
626 policy demands and ensure power is reliable ignore the
627 specifics of the current situation, and directly contradict
628 the reliability concerns voiced by NERC, FERC, and the grid
629 operators.

630 Our concern is that the EPA's proposed rule once again

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631 puts aspirational policy goals ahead of operational reality.
632 If finalized, these proposed rules will likely lead to power
633 plant retirements or reduced availability due to operational
634 limits at a time when reliability coordinators and regulators
635 have warned that our nation is already facing a reliability
636 crisis due to the accelerated retirement of dispatchable
637 resources.

638 EPSA's members maintain a strong commitment to
639 reliability, and stand ready to help the nation meet its
640 reliability and growing energy needs while enabling the
641 coming energy expansion.

642 Thank you for the opportunity to be here, and I look
643 forward to your questions.

644

645

646

647 [The prepared statement of Mr. Snitchler follows:]

648

649 *****COMMITTEE INSERT*****

650

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651 *Mr. Johnson. The gentleman yields back.

652 The chair now recognizes Mr. Duffy for five minutes.

653

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654 STATEMENT OF JAY DUFFY

655

656 *Mr. Duffy. Thank you, Chairman Johnson, Ranking Member
657 Tonko, and honorable members of the committee. My name is
658 Jay Duffy. I am the litigation director at Clean Air Task
659 Force, a non-profit organization. I have been an attorney
660 with CATF for 10 years, working on the rules that we will be
661 talking about today.

662 CATF's mission is to push the technology and policy
663 changes needed to achieve a zero-emissions, high-energy
664 planet at an affordable cost. In furtherance of that
665 mission, CATF advocates for and defends strong pollution
666 control standards for power plants.

667 A series of listings, findings, and rulemakings made
668 pursuant to congressional instructions in the Clean Air Act
669 require EPA to set standards and emission guidelines for
670 greenhouse gases from fossil-fuel-fired power plants.

671 The Clean Air Act is technology forcing and forward
672 looking, and its standards of pollution are based on
673 pollution controls that the administrator determines are
674 adequately demonstrated and cost reasonable.

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675 The Supreme Court recently spoke more favorably about
676 traditional, at-the-source pollution controls that are cost
677 reasonable and cause a power plant to operate more cleanly.
678 But a pollution control need not be on every street corner in
679 order to be the basis of standards. Standards have been
680 upheld on the basis of pilot control technology, test
681 programs, operation of one-plant vendor information, and the
682 performance of controls in other industries.

683 History shows that pollution control options can be
684 developed, available, and cost reasonable, yet sit on the
685 shelves gathering dust until some regulation or incentive
686 pushes or pulls an industry to reduce their pollution.
687 Accounting for the changing role and trajectory of the
688 regulated power plants and the recent limits imposed by the
689 Supreme Court, EPA has undertaken its job, as defined by
690 Congress in the Clean Air Act, and it has proposed emission
691 standards and guidelines for greenhouse gases from existing
692 and new power plants. The proposal can and it should be
693 strengthened, but the core elements of the proposal are
694 strong.

695 It is key to reality: coal plants are retiring;

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696 overall, fossil plants are running less; and they are
697 supporting an increasingly renewable grid; pollution control
698 costs are coming down, both due to learnings through the
699 industry and advancements and incentives passed by Congress.

700 Generally, EPA's proposal provides a pathway for older
701 plants that are approaching retirement and plants that do not
702 operate as much to control their pollution based on fuels and
703 efficiency. And let's be clear: As proposed, that is the
704 majority of the fleet.

705 Irrespective of this rule, EPA's model projects that
706 coal-fired generation capacity will fall from 100 gigawatts
707 in 2028 to 33 gigawatts in 2035, and that 84 percent of new
708 and existing gas units will fall into the proposed low and
709 intermediate subcategories with less stringent standards.
710 But for those baseload power plants that are operating the
711 most and polluting the most, EPA proposes that they meet an
712 emission limit commensurate with carbon capture and
713 sequestration or hydrogen co-firing.

714 EPA first found CCS adequately demonstrated and cost
715 reasonable in 2015 for new coal-fired power plants.
716 Post-combustion capture has only become more cost reasonable,

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717 widespread, and proven since that time. When EPA set
718 standards based on sulfur scrubbers in the 1970s, there were
719 only 3 units in operation, and 1 vendor for the technology.
720 After regulation, the technology was successfully deployed,
721 cost declined, and the control became the industry standard.

722 At least 13 vendors have done significant testing, and
723 offer carbon capture and pollution standard -- carbon capture
724 pollution controls specifically for coal and gas-fired power
725 plants. And carbon capture has been -- or CCS -- has been
726 installed and proven on two large-scale coal-fired power
727 plants, and carbon capture is currently operating on three
728 coal-fired power plants in the United States.

729 The Bellingham Natural Gas Combined Cycle Plant
730 demonstrated post-combustion capture from 1991 to 2005,
731 capturing 85 to 95 percent of its CO2 emissions. There are
732 also several FEED studies that determine the technical and
733 economic feasibility of applying post-combustion capture to
734 coal and gas-fired power plants. Due to learning by doing
735 and the 45Q tax credits, EPA found the cost of CCS even more
736 reasonable now than they did in 2015, and it is well below
737 the cost of sulfur scrubbers, a comparable pollution control.

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738 EPA's record to support standards based on CCS is robust, and
739 more than sufficient for the purposes of a forward-looking
740 and technology-forcing statute.

741 The impacts of this proposal are modest and manageable.
742 Several overlapping layers of security are in place to ensure
743 that we do not need to choose between public health and
744 reliable electricity.

745 Thank you for inviting me to this important hearing. I
746 look forward to the discussion.

747 [The prepared statement of Mr. Duffy follows:]

748

749 *****COMMITTEE INSERT*****

750

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751 *Mr. Johnson. The gentleman yields back.

752 The chair now recognizes Mr. Nasi for five minutes.

753

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754 STATEMENT OF MICHAEL J. NASI

755

756 *Mr. Nasi. Thank you, Chair Johnson, Ranking Member
757 Tonko, and members of the subcommittee. My name is Mike Nasi
758 of the Austin office of Jackson Walker, and thank you for the
759 opportunity to testify today regarding EPA's new section
760 111(b) and (d) new carbon rule for new and existing power
761 plants.

762 As an environmental lawyer who has celebrated the
763 success of the Clean Air Act in classes, businesses, and
764 companies alike, I regret that the rule reflects a recent
765 trend by EPA to act as an energy policymaker, as opposed to
766 an environmental regulator.

767 As a practitioner with 28 years in the power sector and
768 20 years in CCS development, I am aware of the promises and
769 the challenges we face in CCS. I am also involved in
770 hydrogen projects, so I am no stranger to their promise or
771 problems, either. It is with that background that I come
772 before you today to express concerns about EPA's new carbon
773 rule, and to point out the immediate and lasting impacts it
774 will have on our nation's grid, our economic security, and

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775 the rule of law.

776 In my written testimony I spend some time giving a sense
777 of the risky state of the electric grid, because it is
778 essential that we have that in mind when we enter into a
779 discussion about the carbon rule.

780 I heavily -- I am heavily involved in other EPA dockets,
781 each of which will have significant grid impacts, but none as
782 significant as the new carbon rule.

783 One of the graphics I include in my written testimony
784 depicts the compressed timeline that will force premature
785 retirements of coal plants on the front end, and ultimately
786 drive massive, wide-scale retirements of both coal and gas on
787 the back end. For the existing coal fleet, we stand to lose
788 about 155,000 megawatts of coal -- and that is not the coal
789 that is already planning on retiring, that is the coal that
790 is planning on sticking around -- because they will be faced
791 with the immediate doubt and -- about the prudence of
792 continuing to spend dollars on facilities whose useful lives
793 are now going to be cut short because of the deadlines and
794 the infeasible control requirements that are starting in just
795 January of 2030, which will be, at best, 3 years, you know,

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796 to do -- to come into compliance by the time the state plans
797 are completed.

798 Just to give you perspective, 155,000 megawatts is the
799 amount of power needed to power between 78 and 140 million
800 homes.

801 For the existing gas fleet, which is in -- also in the
802 same range of potential impacts ranging up to about 204,000
803 megawatts, they are going to be faced with an impossible
804 choice. They are either going to have to down-dispatch to
805 stay out of the baseload category, which in many regions will
806 be uneconomic and means they will retire, or they will have
807 to take the unprecedented risk of hoping that CCS and/or
808 these hydrogen technologies will work.

809 For the hydrogen pathway, it involves displacing fully
810 30 percent of the natural gas they currently use with low GHG
811 hydrogen, a water-consumptive fuel that is not yet in
812 existence at scale. And in just 6 years after that they have
813 to go to a 96 percent co-firing of low-GHG hydrogen. Again,
814 a non-existent fuel, but then will require a whole new
815 transportation pipeline system. If the low hydrogen pathway
816 isn't chosen, they must deploy the already-mentioned carbon

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817 capture at a scale and in a timeframe that is unprecedented,
818 even if it is conceivable.

819 For those contemplating new gas generation, this rule
820 has already chilled investment in efficient, combined cycle
821 gas plants and large-frame combustion turbines because, as of
822 last month, they will be held to the same standards with
823 unproven technologies in their future. And our inability,
824 our slowing of this new gas build is going to prevent us from
825 filling the void that is being left by the continued
826 retirement of coal, nuclear, and older gas units.

827 Turning to the legal defects of the new carbon rule, the
828 Clean Power Plan certainly triggers major questions and,
829 contrary to those who have suggested otherwise, is running
830 afoul of the Supreme Court's decision in *West Virginia v EPA*.

831 No matter how much EPA and supporting advocates will try
832 to argue that this rule is simply technology-forcing, the
833 technologies they chose to force don't just force technology
834 at the power plant; they force our entire nation to consent
835 to, among other things, the construction of thousands of
836 miles of hydrogen and CO2 pipelines and CO2 storage sites.
837 Even if such an unprecedented national energy infrastructure

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838 overhaul was conceivable, it is simply not EPA's job to
839 mandate it.

840 This reliance on outside defense infrastructure is what
841 distinguishes CCS from scrubbers, which you have referred to,
842 for sulfur dioxide. When we put scrubbers in place, the
843 entire system is in our control at the plant. We have the
844 systems to manage it all on site. By contrast, CCS
845 necessarily requires outside-the-fence infrastructure to
846 transport and inject that CO₂. In all but a handful of
847 cases, that will be outside the control of the power plant
848 operator.

849 In conclusion, I urge the committee to request the EPA
850 to withdraw this proposal and rework the rule. EPA should
851 simultaneously re-examine the grid impacts of this rule. And
852 at the very least, EPA should extend the current 60-day time
853 period to make sure that we do this rule right, because if we
854 do it wrong it will be irreversible and ultimately tragic.
855 Thank you.

856 [The prepared statement of Mr. Nasi follows:]

857

858 *****COMMITTEE INSERT*****

859

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860 *Mr. Johnson. The gentleman yields back, and I thank
861 our witnesses for their testimony, and we will now move into
862 the Q&A portion of the hearing. I will begin the
863 questioning, and I recognize myself for five minutes.

864 You know, the timing of this proposal rule -- proposed
865 rulemaking could not be worse. Our nation's largest grid
866 operator, PJM, which covers my district and the entire State
867 of Ohio, warned it could face significant capacity shortfalls
868 by the end of the decade. It cited specific EPA rules as the
869 primary driver behind this energy shortfall.

870 And it is not just Ohio. In fact, the governor of
871 Virginia sent me a copy of a letter he sent to the EPA
872 yesterday in advance of this hearing. Virginia, part of the
873 PJM grid, just as Ohio is, Governor Youngkin warns that "This
874 proposal not only ignores this looming potential energy
875 crisis, but exacerbates the problem.'" I have the letter
876 right here, and I am entering it into the record.

877 [The information follows:]

878

879 *****COMMITTEE INSERT*****

880

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881 *Mr. Johnson. The North American Electric Reliability
882 Corporation, NERC, also has noted that significant portions
883 of the country face capacity shortfalls during normal and
884 above-normal demand scenarios. In fact, the CEO of NERC
885 stated just last week before a Senate hearing that, "The pace
886 of change is overtaking the reliability needs of the
887 system.' "

888 Unless reliability and resilience are appropriately
889 prioritized, current trends indicate the potential for more
890 frequent and more serious long-duration reliability
891 disruptions, including the possibility of national
892 consequence events.

893 I mean, I have heard my colleagues talk about the EPA's
894 mission to manage public health. When is freezing to death
895 and suffering from heat exhaustion because you can't heat and
896 cool your home because your power is shut down -- why is that
897 not a public health issue? And I don't understand why the
898 EPA doesn't see that.

899 I have a question for each of you on the panel, starting
900 with my fellow Ohioans.

901 Mr. O'Loughlin, for the record here, if this rule goes

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902 into effect along with the litany of other EPA rules on power
903 generation, can my constituents in the PJM grid and families
904 across the country expect equal to or better grid reliability
905 in 2032 than they do right now?

906 *Mr. O'Loughlin. Chairman Johnson --

907 *Mr. Johnson. A quick answer, if you could.

908 *Mr. O'Loughlin. I don't see any possible way that
909 would be true. We are at great risk today, and this will
910 definitely make it significantly worse.

911 *Mr. Johnson. Okay. Mr. Snitchler.

912 *Mr. Snitchler. Mr. Chairman, we would have concerns
913 about what the ultimate outcome would be of the litany of
914 policies EPA --

915 *Mr. Johnson. Is that a no under these rules? You
916 don't think it is going to be --

917 *Mr. Snitchler. It has yet to be determined, but it
918 sets us up for a real reliability challenge.

919 *Mr. Johnson. Okay. What about Mr. Duffy?

920 *Mr. Duffy. I think we can maintain reliability. There
921 are plenty of flexibilities in this rulemaking, and long
922 timelines --

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923 *Mr. Johnson. Yes or no, will it be the same or equal
924 to or better?

925 *Mr. Duffy. I think we can maintain reliability.

926 *Mr. Johnson. Okay. Mr. Nasi.

927 *Mr. Nasi. There is no way, if you look at the data of
928 the RTOs, that our reliability will not be in a much worse
929 shape.

930 *Mr. Johnson. Okay. I am also concerned this rule
931 sends negative signals to the energy industry to invest in
932 critical natural gas infrastructure. My district sits atop
933 the Utica and Marcellus Shale, where we produce clean,
934 abundant American natural gas for a number of power
935 generation facilities in our region. However, due to many of
936 the market subsidies like tax credits for unreliable and
937 non-dispatchable wind and solar, natural gas generation is
938 becoming increasingly less economically competitive.

939 On top of that, it is clear that EPA regulations are
940 taking this one step further: threatening the economic
941 viability of current and future gas-fired generation. For
942 example, the proposed rule sets unrealistic requirements like
943 co-firing with over 90 percent hydrogen by certain fast-

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944 approaching dates, despite the fact this technology has never
945 even been adequately demonstrated.

946 So, Mr. Snitchler, can you explain to us how this rule
947 will further harm the economic viability of reliable gas
948 generation on our electric grid now and into the future?

949 *Mr. Snitchler. As owners of natural gas resources or
950 developers of new natural gas resources, we are always
951 looking for some degree of certainty that would ensure the
952 long-term viability and low-cost operation, because, unlike
953 regulated utilities, competitive power generators have to
954 compete to be the lowest cost, most efficient unit to run.

955 And when you find yourself in a situation where you are
956 not sure that you will be able to earn a reasonable rate of
957 return, and you are asked to make billions of dollars of
958 investments, that has a chilling effect on investment that
959 suggests that we will not see the needed amount of natural
960 gas resources that, if you want to increase your wind and
961 solar resources, you need to have additional natural gas
962 resources to support them. They work together. And if you
963 turn off one, you are left with only the other.

964 *Mr. Johnson. I would submit that PJM's report actually

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965 says that, of all the retirement and the energy coming off of
966 the grid, only six percent of it is -- of the replacement is
967 natural gas, only six percent.

968 With that, I yield back and I recognize the ranking
969 member, Mr. Tonko, for his questions.

970 *Mr. Tonko. Thank you, Chairman Johnson.

971 Many utilities -- excuse me -- and power producers have
972 already made commitments to close their oldest and their most
973 polluting power plants -- these announcements long predate
974 this proposal -- and this is largely because all across the
975 country renewable energy is able to compete with existing
976 fossil fuel resources.

977 So Mr. Duffy, your testimony mentioned that EPA's
978 modeling projects coal-fired power plant capacity will
979 decline from 100 gigawatts in 2028, and I believe you said 33
980 gigawatts in 2035, irrespective of this rule. Can you expand
981 upon this trend in the power sector toward cleaner
982 alternatives?

983 And just how does EPA's proposed rule align with trends
984 already underway?

985 *Mr. Duffy. Sure. So what EPA does here is it uses

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986 design features that they have used for decades with the
987 Clean Air Act. So they took the fleet, they divided it into
988 subcategories, and then set standards for those
989 subcategories. They took into account the fact that these
990 plants are already planning on retiring. It doesn't make
991 sense to do a big, huge pollution control project on a plant
992 that is intending to retire. So there are pathways there.

993 And then, as we have mentioned before, the natural gas
994 fleet is operating at lower capacity factors to support an
995 increasingly renewable grid. And so for those plants there
996 are less stringent standards. It is the baseload plants that
997 is -- an increasingly small percentage that have the more
998 stringent standards.

999 *Mr. Tonko. And again, Mr. Duffy, last year Congress
1000 enacted the Inflation Reduction Act. How do the incentives
1001 included in that law complement the rule?

1002 And will the IRA help reduce compliance costs?

1003 *Mr. Duffy. Yes, for sure. In 2015, when EPA decided
1004 that -- determined that CCS was -- adequately demonstrated
1005 cost reasonable, the 45Q credit was at \$20. It is now at
1006 \$85. So that significantly changes things.

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1007 And then the baseline, of course, of what the generation
1008 mix looks like right now has been changed, making, you know,
1009 carbon pollution standards easier to meet.

1010 *Mr. Tonko. Right. Mr. Duffy, your testimony mentioned
1011 analysis that the proposed rule would only cover 7 percent of
1012 existing natural gas plants, which must be greater than 300
1013 megawatts and have a capacity factor greater than 50 percent
1014 to be covered. And I am sure there are many environmental
1015 and public health organizations that feel too few existing
1016 gas plants are covered.

1017 And for the record, I would like to see more sources
1018 covered, too. But for now let's just examine what EPA has
1019 actually proposed. Can you please help make this clear to
1020 everyone?

1021 Has EPA gone to great lengths to tailor this rule, as
1022 proposed, toward the largest and the most polluting sources?

1023 *Mr. Duffy. Yes, the most stringent standards are
1024 certainly on that small percentage that runs baseload.

1025 *Mr. Tonko. And when setting these thresholds, was EPA
1026 considering the already-underway long-term expected shift in
1027 our electricity mix, where some of these gas plants --

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1028 smaller, less polluting ones that don't run as frequently --
1029 may play a role in balancing a grid that is much more reliant
1030 on renewable resources?

1031 *Mr. Duffy. Certainly. I mean, EPA makes clear that
1032 power trends were a driving factor in how they designed this
1033 rule, and also that reliability was of paramount concern in
1034 the design.

1035 *Mr. Tonko. Right. Well, we made great efforts to make
1036 certain that we don't claw back some of the incentives of the
1037 IRA, which are extremely beneficial to this entire picture.

1038 To summarize, many existing coal plants are already
1039 planning to retire, and certainly will not be required to
1040 take meaningful actions under the rule. And many existing
1041 gas plants, which can play a smaller but certainly perhaps
1042 needed a role -- needed role in grid balancing and
1043 reliability, are also not covered by the rule.

1044 This, therefore, I believe, is reasonable and achievable
1045 as an approach that allows EPA to target the most polluting
1046 units, while following pre-existing power sector market
1047 trends. We should not suggest otherwise.

1048 And with that, Mr. Chair, I yield back.

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1049 *Mr. Palmer. [Presiding] I thank the gentleman for his
1050 questions. The chair now recognizes the chairman of the full
1051 committee, the gentlelady from Washington, Mrs. McMorris
1052 Rodgers, for her questions.

1053 *The Chair. Thank you.

1054 Delivering electric power reliability and affordability
1055 is vital for public health and safety. Yet irresponsible
1056 climate policies have relentlessly been pushing to eliminate
1057 the baseload generation that is essential for assuring that
1058 people have power, especially when they need it the most.
1059 Grid authorities are finally speaking up about the risk to
1060 the public, as witnesses today are highlighting.

1061 The Biden Administration, like the Obama Administration,
1062 has set policy goals to decarbonize the grid by 2035. And it
1063 is a pace that is dangerous to the public. The Obama
1064 Administration used the Clean Air Act to circumvent Congress
1065 as a weapon to force retirements and drive out baseload
1066 power, even when proposed standards did not withstand legal
1067 challenge. It looks like the Biden EPA is attempting the
1068 same thing.

1069 Mr. Nasi, would you briefly walk through the estimates

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1070 in your testimony for the immediate and long-term impacts of
1071 EPA's proposals, how much coal and gas generation could be
1072 retired?

1073 *Mr. Nasi. Thank you, Chairwoman, I will. Pages 11 and
1074 12 of my testimony set out the data. EPA's models about what
1075 is going to happen, frankly, are not credible; they don't
1076 confer with NERC, FERC, RTOs, or states to develop them; and
1077 they conflict specifically with many of my clients' plans.

1078 So you have to look at the data, and the data from EIA,
1079 both Forms 860M and 923, show that about 55,000 megawatts of
1080 coal is expected to retire by 2032, but 155,000 megawatts are
1081 not. And so that is what is on the block, the chopping block
1082 for retirement, for the reasons I explained.

1083 On the gas fleet, because they have done this by
1084 capacity factor, you look at that same data set, and you look
1085 at the capacity factors. And those that are over a 45
1086 percent capacity factor -- it depends on an economic test,
1087 but grossly speaking, that would impact 194,000 megawatts of
1088 existing gas-fired generation. At the best case, if it is
1089 actually only over a 55 percent capacity factor, it is
1090 126,000 gigawatts of existing gas. So EPA's predictions are,

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1091 frankly, at odds with the data and the announced plans of
1092 folks, and the compressed timelines are going to force those
1093 retirements.

1094 *The Chair. Thank you. Do you know how many plants
1095 would actually comply with this rule?

1096 *Mr. Nasi. I mean, we will have a handful of plants --
1097 I said in my written testimony I am a big supporter of CCS
1098 technology, I have been involved in projects for 20 years --
1099 a handful of projects that are sitting on great geology that
1100 might be able to take the risk. But that is in the hundreds
1101 and maybe a couple thousand megawatts of that massive fleet.
1102 The other facilities are just too dependent upon pipeline
1103 infrastructure that doesn't exist and, on the gas side,
1104 hydrogen that doesn't exist. Low GHG hydrogen is not a
1105 commercial product.

1106 And so to bank a standard on something that doesn't
1107 exist in reality now -- and even because of metallurgical and
1108 other reasons, frankly, can't realistically be moved around -
1109 - is a big problem.

1110 *The Chair. Thank you.

1111 Mr. O'Loughlin and Mr. Snitchler, you are either

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1112 directly responsible for producing and providing power or
1113 represent the companies that do so. Would retirements on
1114 this scale that Mr. Nasi just described substantially change
1115 the generation mix on the grid?

1116 *Mr. O'Loughlin. It will. And what is particularly
1117 being targeted are baseload generation units, which may be
1118 few in number, but they provide a large percentage of the
1119 energy and a large percentage of the reliability services
1120 that we depend on.

1121 You know, as I have said earlier, anybody that has
1122 seriously looked at our current situation realizes that we
1123 have elevated risk right now during extreme weather events,
1124 and any decline in those baseload resources greater than what
1125 we are already expecting is certainly going to have a
1126 negative impact on that, going forward.

1127 *Mr. Snitchler. I would echo the comments about the
1128 need for us to ensure that we have sufficient resources. And
1129 if you look at the EIA data from their most recent report --
1130 it just came out about a month ago -- it talks about the
1131 potential need for additional resources to support the
1132 system, even under a high renewables penetration scenario.

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1133 It is at a minimum of 9 gigawatts of new natural gas, or as
1134 high as 360 gigawatts of new natural gas which would be
1135 required in order to ensure reliability on the system. That
1136 suggests to me that we are going to need more, not less. It
1137 is a both-and not an either-or scenario.

1138 *The Chair. Thank you. Back to Mr. Nasi.

1139 You were involved in the litigation over President
1140 Obama's Clean Power Plan, which eventually resulted in West
1141 Virginia v EPA. Do you think section 111 of the Clean Air
1142 Act authorized EPA to transform the electric system like
1143 this, or is it just another example of the Federal agency
1144 circumventing Congress's Article I authorities?

1145 *Mr. Nasi. Absolutely. You know, the Clean Air Act is
1146 based in a principle that you can't infer massive powers from
1147 Congress in vague language. And the Act requires -- and the
1148 Supreme Court's opinion requires -- that the system of
1149 emission reduction start and finish inside the fence of a
1150 facility.

1151 When you are banking on an overhaul of an entire energy
1152 system, you are technology-forcing in a way that is
1153 explicitly prohibited by both the Act and by the Supreme

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1154 Court.

1155 *The Chair. Thank you. We are the elected
1156 representatives of the people. We should be making these
1157 decisions around the Clean Air Act.

1158 I yield back.

1159 *Mr. Palmer. The gentlelady yields. The chair now
1160 recognizes the gentlewoman from Colorado, Ms. DeGette, for
1161 her questions.

1162 *Ms. DeGette. Thank you very much, Mr. Chair. So the
1163 Clean Air Act was specifically designed to give the EPA the
1164 authority to regulate air pollution, to improve public health
1165 and the environment, and has held accordingly. And it was
1166 also designed to be a driver of technologies that can address
1167 air pollution in a forward-thinking way.

1168 So, Mr. Duffy, I want to ask you, would you agree that
1169 the Clean Air Act is technology-driving?

1170 *Mr. Duffy. I would and, I think more importantly, so
1171 would the courts.

1172 *Ms. DeGette. Right.

1173 *Mr. Duffy. They -- history shows that you can have
1174 pollution controls that are not -- you know, being deployed,

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1175 but they are not being deployed because there is not a
1176 regulation to require them. Why would you install a
1177 pollution control if there is no regulation to do so?

1178 *Ms. DeGette. Exactly. And this rule that we are
1179 talking about today, as proposed, fits in with the
1180 description of technology-driving under the Clean Air Act.
1181 Is that right?

1182 *Mr. Duffy. That is right. I mean, for, you know, the
1183 fuels and efficiencies, which is the bulk of -- the basis of
1184 the standards, those have been done for decades. CCS, there
1185 is adequate demonstration that it can be scaled up for this
1186 source category.

1187 *Ms. DeGette. And also, this draft rule is aligned with
1188 EPA's previous work under the Clean Air Act. And I am
1189 wondering if you can expand your last answer to explain
1190 exactly how the draft rule is similar to previous EPA rules.

1191 *Mr. Duffy. Sure. So, you know, I have used the
1192 example of sulfur scrubbers. You know, in the 1970s we were
1193 hearing these same sorts of arguments because there was only
1194 one vendor out there for sulfur scrubbers. There were only
1195 three in operation. And they set standards, and cost

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1196 declined, the pollution control was deployed, there were 16
1197 vendors by the end of the decade, and it became the industry
1198 standard.

1199 *Ms. DeGette. Right, that is right. So this rule, it
1200 seems to me, seems like sort of the next step in combating
1201 air pollution from coal and gas-fired plants.

1202 And so I want to move on and say EPA projects that coal-
1203 fired electricity generation will fall to 33 gigawatts in
1204 2035, regardless of whether this rule was implemented or not.

1205 So how does this rule complement the trends that are
1206 already taking place in the markets?

1207 *Mr. Duffy. Right. I mean, it was actually pursuant
1208 to, you know, large trade associations' request that that EPA
1209 set these glide paths, these pathways for plants that are
1210 nearing the end of their useful lives, such that they didn't
1211 have to install major pollution control technologies and make
1212 that investment when they wouldn't be able to recoup it. So
1213 that seems to me a meaningful -- a reasonable path forward
1214 when these plants are, you know, at the end of their useful
1215 lives.

1216 Those that continue to run, CCS is cost effective and

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1217 available and, most importantly, reduces nearly all the
1218 pollution, the climate pollution, from the power plant. And
1219 so that is the basis of the standards for that sector.

1220 *Ms. DeGette. Yes, and frankly, we are seeing this in
1221 my home state of Colorado already, where the coal-fired
1222 plants, for business reasons, are coming offline and people
1223 are moving to other alternatives.

1224 And so Mr. Tonko asked you the question, and I think it
1225 is worth expanding on it. The Inflation Reduction Act
1226 actually lowered the cost for the new technologies, is that
1227 right?

1228 *Mr. Duffy. That is right. As I said, it is kind of a
1229 two-part answer. It, number one, reduced the cost of CCS to
1230 be even more reasonable and, in some places, you know, cost
1231 effective, not just, you know, a cost of doing business. And
1232 so there is that.

1233 And then there is also the fact that the grid is being
1234 supported in a way where, you know, replacement generation is
1235 more and more affordable.

1236 *Ms. DeGette. Yes. So in your opinion, does this rule
1237 seem overly burdensome, or does it seem like a common-sense

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1238 next step that EPA should take?

1239 *Mr. Duffy. This seems like a pretty traditional,
1240 inside-the-fence rule that EPA has been doing for decades
1241 under section 111.

1242 *Ms. DeGette. Great. Thank you very much.

1243 I yield back.

1244 *Mr. Palmer. I thank the gentlelady. The chair now
1245 recognizes the gentleman from Georgia, Mr. Carter, for his
1246 questions.

1247 *Mr. Carter. Thank you, Mr. Chairman, and thank each of
1248 you for being here. This is extremely important, and this is
1249 something I am very concerned with, and that is EPA and other
1250 agencies promulgating rules and essentially doing the work of
1251 what is supposed to be Congress and the elected officials,
1252 and then what we are going to find here is that this is going
1253 to send negative signals to the entire power industry to
1254 invest in baseload generation. And that is not what we need.

1255 You know, I am still stinging from the State of the
1256 Union address, when the President of the United States, in
1257 the same breath, blamed the high price of gasoline on the
1258 fact that the fossil fuel industry was not investing in the

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1259 infrastructure, and then in the next breath said, oh, we are
1260 not going to need fossil fuels in the next 10 years, anyway.
1261 Duh.

1262 I mean, this is serious stuff here, and I am very
1263 concerned about this. We are putting every rule imaginable
1264 into the way of the most reliable power-generating sources we
1265 have. Sixty percent of this nation's energy comes from
1266 natural gas and coal, and we are -- and here is the EPA,
1267 putting these rules and regulations in the way of this. And
1268 it is just -- when you talk about carbon capture technology,
1269 it is just not economical yet. Do we want to get there?
1270 Yes, we want to get there. But it is -- we are not there
1271 yet, and that is a problem.

1272 I had the opportunity to travel with the conservative
1273 conference -- the Conservative Climate Caucus, to Europe.
1274 And what we recognized there and what we saw was that they
1275 have allowed their policies to get ahead of their innovation
1276 in Europe, and now they have got a mess. Now they are going
1277 back to coal after they shut down their nuclear plants and
1278 everything else. We should learn an important lesson there
1279 that we not let our policies get ahead of our innovation.

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1280 Mr. O'Loughlin, I want to ask you. In light of this
1281 rule, in light of the rule that we are discussing here today
1282 and many others from EPA, where do you see investments in the
1283 power sector going?

1284 *Mr. O'Loughlin. Yes, well, it is a difficult answer
1285 for baseload generation. Obviously, the government is
1286 incenting more wind and solar, and I think we will see more
1287 of that, and we -- which is fine.

1288 But the investment -- you know, I would like to expand a
1289 little bit on why I am so confident that we are going to see
1290 a lot of closures of coal plants, and probably some basic
1291 natural gas, and it is the state of carbon capture systems,
1292 which are -- have been demonstrated to be able to capture
1293 carbon at some larger scale, but they have never been
1294 demonstrated according to the requirements in this EPA
1295 proposed rule. They have never captured a full output of a
1296 unit of the size and scope of the units that we operate. It
1297 has never been required to operate on a continuous basis at a
1298 90 percent capture rate, and they just simply have not been
1299 demonstrated to even be able to do that, let alone to do it
1300 at a reasonable cost.

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1301 So I am quite confident that many operators of coal
1302 plants are not going to be able to just throw money away on
1303 this -- what I will call a science experiment -- that this
1304 might work on a full-scale --

1305 *Mr. Carter. Understood.

1306 *Mr. O'Loughlin. -- large, baseload-generating unit.

1307 *Mr. Carter. Thank you.

1308 Mr. Snitchler, let me ask you. How is it simply
1309 proposing this rule, simply proposing it and subjecting the
1310 industry to further regulatory uncertainty, affect planning
1311 and investment? How does a company do that?

1312 *Mr. Snitchler. The degree of uncertainty that is
1313 raised chills investment, quite simply.

1314 If you look at the --

1315 *Mr. Carter. Sort of like if the President says we are
1316 not going to need fossil fuel in the next 10 years?

1317 *Mr. Snitchler. Well, if you are looking at making a 20
1318 or 30-year investment in infrastructure to a power plant, you
1319 are not going to make a 20-year or 30-year investment on a
1320 10-year time horizon. So you elect not to make that
1321 investment.

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1322 The challenge becomes, as we look at this energy
1323 expansion, as I noted before, with electrification, increased
1324 load, you are going to need more resources, not less. And as
1325 the resource mix changes, it is not a one-for-one
1326 replacement. If you add 10,000 megawatts of wind or solar,
1327 you still need to have 1,000 megawatts or more of natural-
1328 gas-fired resources in order to back them up when they don't
1329 operate. And so they work symbiotically, and they are
1330 required to work together.

1331 *Mr. Carter. Let's talk about pipelines for a second,
1332 and that is important to me because we just got a letter, the
1333 Georgia delegation just got a letter from the Georgia Public
1334 Service Commission to the entire delegation telling us how a
1335 lack of pipelines is threatening our ability to be
1336 competitive. Do you think that is true?

1337 *Mr. Snitchler. I think the need for infrastructure is
1338 clear. If we are going to need to see an expansion of the
1339 natural gas system, even if it operates less frequently and
1340 at a lower capacity factor, it is going to need to be able to
1341 have access to the resources. And right now there is not
1342 sufficient access to those resources. And that creates a

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1343 problem, because if you can't -- if it is not there, it
1344 doesn't matter if you build a plant or not.

1345 *Mr. Carter. Is it a financial problem or a liability
1346 problem or both?

1347 *Mr. Snitchler. It is an all-of-the-above problem.

1348 *Mr. Carter. Okay. All right, Mr. Chairman, I
1349 appreciate it.

1350 Thank you both. Thank all of you for being here. This
1351 is extremely important.

1352 And thank you, Mr. Chairman. I will yield back.

1353 *Mr. Johnson. [Presiding] The gentleman yields back.
1354 The chair now recognizes the gentlelady, Ms. Schakowsky, for
1355 five minutes.

1356 *Ms. Schakowsky. Thank you, Mr. Chairman. Under the
1357 proposed rule, EPA estimates that the new standard would
1358 actually have net climate, health, and -- climate and health
1359 benefits to the tune of about \$85 billion.

1360 Specifically, the new standards would prevent more than
1361 1,000 premature deaths, 300,000 asthma attacks, 38,000 school
1362 absences, 66,000 losses in jobs that we would be able to
1363 save.

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1364 So, Mr. Duffy, I wanted to ask you, can you go into more
1365 detail about the -- about how the rule would actually result
1366 in some cost savings, especially when it comes to health
1367 care?

1368 *Mr. Duffy. Sure. You know, so as Ben Franklin said,
1369 an ounce of prevention is worth a pound of cure, and that
1370 certainly is the case with the Clean Air Act. These health
1371 benefits, EPA estimates, will outweigh the compliance costs
1372 seven to one. So I think that is important here. And as you
1373 mentioned, between 2024 and 2042, the range of health
1374 benefits associated with this rule is 64 billion to 85
1375 billion.

1376 So I think, you know, we need to be conscious of what --
1377 the purpose of this Act here, which is to protect public
1378 health.

1379 *Ms. Schakowsky. Thank you. And also, Mr. Duffy, I
1380 wanted to ask you, did the clean energy provisions that are
1381 included in the bills that we have passed -- we have talked
1382 about the Inflation Reduction Act, et cetera -- and the EPA
1383 rule increase costs to American consumers?

1384 I think that is sort of a bottom line that people are

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1385 asking. And what is you're your view? I think we ought to,
1386 you know, set the record straight.

1387 *Mr. Duffy. Yes, let's do that. So per the Princeton
1388 University's REPEAT Project, enacting the Inflation Reduction
1389 Act would lower annual U.S. energy expenditures by at least 4
1390 percent in 2030. That is a savings of nearly \$50 billion per
1391 household per year for businesses, households, industry.
1392 That translates into hundreds of dollars in annual energy
1393 savings costs for U.S. households.

1394 *Ms. Schakowsky. Thank you. So in your testimony you
1395 state that fossil fuel power plants are operating at lower
1396 capacity, and that what we are seeing now is that renewable
1397 generation is actually accounting for greater energy
1398 production.

1399 *Mr. Duffy. Yes, that is right. I mean, that is the
1400 trends and, you know, the power sector trends that EPA is
1401 keying these rulemakings to. They want to make sure that
1402 they are supporting an ongoing transition that is happening
1403 already.

1404 So, as you mentioned, you know, fossil plants are
1405 running less to support an increasingly renewable grid;

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1406 baseload power plants are retiring; pollution control costs
1407 are coming down. These are things that are happening in
1408 reality. And it is EPA's job to look at what is happening in
1409 the world and determine the best systems of emission
1410 reduction for carbon pollution.

1411 *Ms. Schakowsky. So we are hearing a lot about -- a lot
1412 of pessimism, I think, about the possibility of the kind of
1413 innovation that we need to have in order to achieve both our
1414 goals of power generation and also health care. Can you
1415 comment on that?

1416 *Mr. Duffy. Absolutely. I am similarly struck. I
1417 think, you know, the Clean Air Act has driven, you know,
1418 American innovation for decades.

1419 Once a regulation is set, industry generally over-
1420 complies, has costs come down lower than even anticipated,
1421 and then we don't have the air pollution and the public
1422 health detriments that are associated with their pollution.

1423 *Ms. Schakowsky. So you think that we can achieve the
1424 goal to -- we don't have to make a choice between clean air
1425 and energy?

1426 *Mr. Duffy. No, I don't think so. And that is how the

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1427 Clean Air Act is designed: it provides those factors, it
1428 gives EPA the job of looking at what are the pollution
1429 controls that are out there, which ones are adequately
1430 demonstrated, which ones are cost reasonable, consider
1431 energy. So all of those things are the job of EPA, and they
1432 have set about doing that here, and I think it is -- they did
1433 it fairly successfully.

1434 *Ms. Schakowsky. Thank you.

1435 And I yield back.

1436 *Mr. Johnson. The gentlelady yields back. The chair
1437 now recognizes Mr. Palmer for five minutes.

1438 *Mr. Palmer. Just a couple of points here. I would
1439 like to quote the former chairman of this committee, John
1440 Dingell, who said that he was present when we -- meaning
1441 Congress -- wrote the Clean Air Act, and he thought it was
1442 clear enough that not even the Supreme Court was stupid
1443 enough to determine that the EPA had the authority to
1444 regulate greenhouse gases. I think I agree with Congressman
1445 Dingell, Chairman Dingell.

1446 I just want to point out a couple of things. One, I
1447 keep hearing people talk about this existential threat that

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1448 climate change is to the country. And I don't know where
1449 they get that information, because even the Intergovernmental
1450 Panel on Climate Change findings indicate that there has been
1451 no connection to human activity to increase the frequency or
1452 the intensity of hurricanes, or droughts, or any of that. So
1453 I just want to -- I just wish people would stick to the
1454 science.

1455 But there has been a lot of discussion about the health
1456 impacts. And there was an article a couple of weeks ago in
1457 The Economist where they had done a study, and they
1458 determined that 68,000 people died as a result of higher
1459 energy costs in Europe, 68,000. Is that a problem, Mr.
1460 Duffy?

1461 *Mr. Duffy. Absolutely.

1462 *Mr. Palmer. Well, why would you inflict that on
1463 American people?

1464 *Mr. Duffy. I think that is a false choice.

1465 *Mr. Palmer. No, it isn't a false choice, because it is
1466 the conversion of European hydrocarbon energy to renewables
1467 that precipitated this. It is the problem in the UK, an
1468 enormous problem in the UK. Residential household energy use

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1469 in the UK has gone down 10 percent not because they have
1470 become more efficient, but because they can't afford it.
1471 That 68,000 is more than the estimated number of people who
1472 died from COVID at 59,700.

1473 And I think it is a huge problem, Mr. Nasi, that we
1474 continue to make these moves that have -- could have and are
1475 having enormously devastating consequences for people,
1476 particularly people who are living in energy poverty already.

1477 *Mr. Nasi. Yes, sir. I mean, I think on page 18 of my
1478 testimony I conclude with a statement of you really don't
1479 even have to debate climate change to know that the Clean Air
1480 Act directs this agency, this EPA, to do a materiality
1481 analysis.

1482 I mean, we can zero out our entire fossil fleet and we
1483 make a 0.7 percent difference in global CO2 concentrations.
1484 That is not a debate about climate science. That is assuming
1485 all linkages that IPCC would assume. That is just math. And
1486 so when you balance that against the actual exposure of -- to
1487 life and treasure that are associated with outages, it is a
1488 big problem.

1489 In Texas I was without power a week. We killed between

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1490 250 and 700 people. It is an embarrassment. It is a
1491 cautionary tale for the entire world to follow. We
1492 accelerated too fast, too far. And this rule would do more
1493 of the same.

1494 *Mr. Palmer. Well, not only would it do that, not only
1495 would it endanger the lives of American people, it makes --
1496 it becomes a national security issue, as well, because we
1497 cannot have a power grid that is 100 percent renewable
1498 without being almost 100 percent reliant on China to provide
1499 the resources that we need, many of -- much of which was
1500 built with slave labor, but that is a whole different point.
1501 I guess that is just considered collateral damage by some
1502 folks who are supporting renewables.

1503 But wouldn't that not only be a problem for our economy,
1504 but also for our national security?

1505 *Mr. Nasi. Yes, I mean, it is a big geopolitical issue.
1506 I mean, I think the sad truth is, for those that would
1507 actually want to see CCS deployed, which I actually have
1508 historically been a supporter of, the picture is global. And
1509 the fact that the United States is defunding fossil projects,
1510 even if they are CCS-equipped, is a problem.

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1511 We need to turn -- everybody can agree that we need to
1512 help bring people out of energy poverty. That will have
1513 material health benefits to human flourishing. And nothing
1514 we do domestically is going to change that reality, and so it
1515 is just a misallocation of capital. We should be focusing on
1516 the bigger picture.

1517 *Mr. Palmer. What is interesting is that, as India and
1518 China have gone to fossil fuel coal predominantly to build
1519 out their energy infrastructure, the life expectancies in
1520 those countries have gone up dramatically --

1521 *Mr. Nasi. Right.

1522 *Mr. Palmer. -- over the last 25 years, yet there are
1523 still 2.4 billion people who don't have access to reliable
1524 energy. They are cooking their food indoors using wood, and
1525 biomass, cow dung, other stuff. I think the WHO estimates
1526 about 500,000 have died as a result of that. What would the
1527 impact be if we could provide them with, say, natural gas as
1528 a means of providing energy, and particularly as a means of
1529 cooking their food?

1530 *Mr. Nasi. I mean, I spoke to the United Nations a few
1531 months ago, and I simply stated climate deprivation is not a

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1532 moral climate -- I am sorry, energy deprivation is not a
1533 moral climate policy. We should be empowering them to build
1534 gas and bring themselves out of energy poverty.

1535 *Mr. Palmer. Mr. Chairman, I think what he just said
1536 should be taken note of, that the policies that are being
1537 pushed are immoral, and the dangers that they inflict on
1538 people.

1539 One quick question, Mr. Duffy, you mentioned that flue
1540 gas scrubbers -- the first one was built in the 1970s. What
1541 company was that? You mentioned the only vendor in 1970.
1542 Do you know what company that was?

1543 *Mr. Duffy. I apologize, I don't know what the
1544 company's name was off the top of my head.

1545 *Mr. Palmer. Well, I worked for the company that built
1546 them.

1547 *Mr. Johnson. Thank you, Mr. Duffy. The gentleman's
1548 time has expired. The chair now recognizes Mr. Sarbanes for
1549 five minutes.

1550 *Mr. Sarbanes. Thanks very much, Mr. Chairman. Thank
1551 you to the panel.

1552 I can't think of a greater moral imperative than to

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1553 successfully make this transition to renewable sources of
1554 energy as quickly as we can, but also practically, if we are
1555 going to address climate change and address the health
1556 effects that we see from reliance on fossil fuels for
1557 sourcing electricity and other power.

1558 The EPA's proposed power plant rule, which, obviously,
1559 we are talking about today, is part of a very sensible,
1560 ongoing effort by the Biden-Harris Administration to ensure
1561 that reliable energy does not come at the expense of public
1562 health. That is the idea here. And the rule would set very
1563 reasonable pollution limits on power plants protecting the
1564 health and well-being of Americans across the country. In
1565 particular, I will just mention the low-income often -- and
1566 communities of color that have often borne the brunt of such
1567 pollution, again, if we want to tie it back to a moral
1568 imperative underlying this.

1569 The rule is not an over-reach. It is a sound, common-
1570 sense, practical step to take. It is exactly what the EPA
1571 should be doing.

1572 I want to touch on reliability, which is a topic,
1573 obviously, that we have been talking about quite a bit here

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1574 today. I represent central Maryland, which is firmly within
1575 the PJM grid. Earlier this year PJM forecasted that its grid
1576 would see roughly 40 gigawatts of retirements, retirements I
1577 will note that it explicitly did not tie to the rule that we
1578 are discussing today. It has also had, as of the time of
1579 that report, 290 gigawatts of capacity trying to connect to
1580 PJM's grid.

1581 Mr. Duffy, we have heard some fearmongering clearly
1582 about retirements today, but could you talk a little bit
1583 about how the grid operators actually have quite a big lever
1584 to get more power onto their grid quickly by reforming their
1585 interconnection policies?

1586 *Mr. Duffy. So fortunately or unfortunately, I am not a
1587 FERC attorney, but I can -- you know, I -- as I am not
1588 prepared to speak on kind of reforming the interconnection
1589 policies. But what I can share is that the proposal is going
1590 to allow grid operators, plant owners, and states significant
1591 lead time in order to, you know, deal with these sorts of
1592 issues so that they can -- the flexibilities can accommodate
1593 the dynamics in their grid.

1594 EPA has also committed to near constant communication

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1595 with DoE and FERC throughout this process. I am also happy
1596 to talk about kind of the reliability features that are in
1597 this rule --

1598 *Mr. Sarbanes. Right.

1599 *Mr. Duffy. -- to help support the rule.

1600 *Mr. Sarbanes. I appreciate that.

1601 Mr. Chairman, without objection, I would like to enter
1602 into the record a report prepared by Wilson Energy Economics
1603 critiquing the PJM report.

1604 *Mr. Johnson. Without objection, so ordered.

1605

1606 [The information follows:]

1607

1608 *****COMMITTEE INSERT*****

1609

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1610 *Mr. Sarbanes. Thanks very much.

1611 My Republican colleagues are concerned, clearly, about
1612 energy reliability in these discussions about EPA potentially
1613 regulating pollution from power plants. But I think they may
1614 be actively -- or maybe it is unwittingly -- ignoring the
1615 significant reliability shortcomings of fossil fuels.

1616 So Mr. Duffy, maybe take a shot at that. Can you
1617 describe the reliability concerns associated with fossil
1618 fuels -- because we keep hearing about it on the other side
1619 of the ledger -- and why we should remember that fossil fuels
1620 are not 100 percent reliable?

1621 *Mr. Duffy. Sure. I mean, especially with aging coal
1622 plants, they -- you know, as they reach their remaining
1623 useful life, there is more time that they have to -- they
1624 break down and need to be fixed. You know, we have had coal
1625 piles being frozen before. So it is not a -- there is not a
1626 silver bullet here. And the best way to keep fossil on the
1627 grid at baseload is with this virtually free carbon pollution
1628 technology.

1629 *Mr. Sarbanes. I appreciate that. I mean, the goal
1630 here, obviously, is to strike a balance as we move as quickly

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1631 and intentionally as we can towards a new portfolio when it
1632 comes to how we power our society and, frankly, how we lead
1633 globally here. And we have got more to do in that respect.

1634 So I want to thank you for explaining how we don't have
1635 to choose between reasonable pollution regulation, which will
1636 lead to healthier communities on the one hand, and reliable
1637 electricity, which, from what I can discern, EPA's rule will
1638 actually enhance over time.

1639 With that, Mr. Chairman, I yield back. Thank you.

1640 *Mr. Johnson. The gentleman yields back. The chair now
1641 recognizes the gentleman from Texas, Mr. Crenshaw, for five
1642 minutes.

1643 *Mr. Crenshaw. Thank you, Mr. Chairman.

1644 We are here today to discuss yet another horribly
1645 unrealistic rule proposed by the EPA. This rule would
1646 require that we reduce CO2 emissions from power plants to
1647 such an extent that most coal and many natural gas plants
1648 will likely be forced offline by the end of the decade. So
1649 we are in a country where our energy demand will increase by
1650 at least 30 percent over the next couple of decades. This
1651 EPA wants to reduce our energy generation, which is just

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1652 genius.

1653 And I heard earlier that power plants are the biggest
1654 emitter of carbon dioxide in America, and so we have to, you
1655 know, save Americans from them. Yet they are also the
1656 biggest emitter of electricity. Yes, electricity. And I
1657 don't know how that doesn't matter to this Administration or
1658 the entire Democrat Party. Why does no one seem to have an
1659 answer for how we might replace that power generation,
1660 replace that electricity? Why won't anyone from this
1661 Administration or the other side of the aisle acknowledge how
1662 physically impossible it is to replace baseload energy with
1663 renewables?

1664 I would love answers, answers, for instance, how we are
1665 going to come up with a land mass the size of South Dakota to
1666 put the amount of solar and wind farms necessary to replace
1667 such generation, or the thousands of miles of additional
1668 power lines, or the additional steel required, the copper,
1669 the cobalt, all of the critical minerals. Where is that
1670 going to come from? There is just some whimsical assumptions
1671 that it will all work out because Greta Thunberg says it
1672 will.

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1673 Now, if the goal is to protect Americans, maybe
1674 protecting their ability to heat their homes or cool their
1675 homes in the summer might be important. You know, not a
1676 single American is actually harmed by CO2 as a pollutant, and
1677 yet that has been the claim by my colleagues in this hearing
1678 as we all breathe out copious amounts of CO2. It is not the
1679 pollutant giving anyone asthma. Can we at least stick to the
1680 science if we are going to have this discussion?

1681 And if the claim is that additional CO2 warms the planet
1682 over time, then we might consider the fact that all -- if the
1683 U.S. completely abolished all CO2 emissions, then it would
1684 have a negligible effect on temperature and climate. And
1685 that is not according to me, that is according to all
1686 relevant climate modeling. A carbon-free America by 2050
1687 would reduce CO2 concentration by a mere 2.2 percent, and a
1688 negligible effect on the climate.

1689 So once again, we find ourselves in a really simple
1690 policy discussion about costs versus benefits. This EPA
1691 seems content to impose massive costs on Americans without
1692 any clear benefits to speak of. I don't think the mission,
1693 the original one, of the EPA was supposed to be to reverse

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1694 human flourishing, but it certainly seems that that is the
1695 goal now. They want to remove power generation from an
1696 already stressed electrical grid.

1697 And for what benefit? None. Just some hand-waving and
1698 sloganeering about, you know, saving the earth and protecting
1699 people and our children. But catchy slogans and angry
1700 teenagers from Sweden are not a good excuse to upend the
1701 American way of life and threaten the reliability of the
1702 power grid.

1703 Mr. Nasi, you mentioned that over 55,000 megawatts of
1704 existing coal is already scheduled for retirement by 2032.
1705 And because of this proposed rule, we have got another
1706 potential 155,000 megawatts at risk of retirement. I just
1707 have a question. Is there any real chance that this loss of
1708 generation gets replaced by reliable energy, or even
1709 intermittent renewable energy?

1710 *Mr. Nasi. Well, I mean, even if theoretically we could
1711 fill that gap with natural gas generation, as you have heard
1712 multiple witnesses testify, this rule just put a chilling
1713 effect.

1714 I mean, I have clients that are trying to build new gas.

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1715 This rule freezes everybody in place, not just because of the
1716 general uncertainty, but as of May 23rd, you know, last
1717 month, any plant built after that date is subject to things
1718 that don't exist today. And who is going to invest and
1719 finance that project, right? And so it is a problem that we
1720 are not going to solve.

1721 And to the point of EPA modeling what coal plants are --
1722 it is not EPA's job to say whether a coal plant is going to
1723 retire. It is actually, under the Clean Air Act, the state's
1724 job. And EPA is running right through that stop sign, and
1725 modeling a rule predicting something that is contrary to the
1726 data. And actually, the Clean Air Act contemplated that and
1727 told them, no, you are going to actually have to ask the
1728 state's opinion, and they have not.

1729 *Mr. Crenshaw. Mr. O'Loughlin, could you build upon
1730 that notion of potential investment in reliable baseload
1731 energy because of this rule?

1732 *Mr. O'Loughlin. Yes. The rule -- I mean, there has
1733 been this choice between reasonable environmental regulation
1734 and reliable electricity. I agree we don't have to make that
1735 choice. But I would say this is not a reasonable

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1736 environmental regulation. It is going to force unproven
1737 technologies onto plants, and operators like ourselves that
1738 have to answer to consumers are not going to invest in things
1739 that they can't reliably depend on to meet their needs and
1740 create further stranded costs above what has already been
1741 created by the -- by this rule.

1742 So it is going to cause us to not invest in our current
1743 facilities, and it has sort of shut off natural gas as an
1744 option, because it has got the same problem: unproven
1745 technologies to try to replace our coal fleet.

1746 *Mr. Crenshaw. Thank you, and I yield back.

1747 *Mr. Johnson. The gentleman yields back. The chair now
1748 recognizes the gentlelady from New York, Ms. Clarke, for five
1749 minutes.

1750 *Ms. Clarke. Thank you, Mr. Chairman, and I thank our
1751 Ranking Member Tonko. I thank our panelists for being here
1752 to testify for us today.

1753 And while I am glad that this subcommittee is
1754 considering the importance of power plant emissions to ensure
1755 our constituents have clean air to breathe, I reject the
1756 premise of the hearing that we cannot set our nation on a

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1757 path to decarbonize the power sector without having reliable
1758 and low-cost energy -- electricity.

1759 The State of New York is a clear counter-example to the
1760 false Republican narrative. Our state passed the Climate
1761 Leadership and Community Protection Act of 2019, and is now
1762 well on its way to achieving 70 percent renewable energy by
1763 2030 without significant reliability concerns. If
1764 Republicans were serious about their concerns with
1765 reliability, they would commit to working with Democrats to
1766 modernize our nation's transmission infrastructure, which
1767 would immediately improve reliability and resiliency against
1768 extreme weather events and lower energy costs.

1769 My first question is to Mr. Duffy.

1770 In your testimony you called the EPA's current proposal
1771 a reasonable approach in line with the power sector's trends,
1772 but note that it should be strengthened. I agree with the
1773 assessment. I was disappointed to see the proposal lack
1774 action toward peaker power plants, which in New York
1775 represent more than 50 fossil fuel power plants. Many of
1776 these have been operating since the 1970s or earlier, and
1777 have little or no pollution control equipment to reduce

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1778 emissions, and are located almost exclusively in
1779 environmentally overburdened communities of color.

1780 In what ways can this rule be strengthened, especially
1781 with regard to the nation's dirtiest power plants and in ways
1782 to protect the most vulnerable communities from overlapping
1783 sources of pollution?

1784 *Mr. Duffy. Sure. Thank you for that question. So
1785 there are two things that -- you know, it is early days in
1786 reviewing this big proposal, but there are two things that
1787 come to mind as far as strengthening it.

1788 One is, as you mentioned, the coverage of the existing
1789 gas plants. So EPA has proposed to cover those that are
1790 bigger than 300 megawatts and that are operating more than 50
1791 percent of the time. That covers just 7 percent of the
1792 existing natural gas fleet, less than 30 percent of their CO2
1793 emissions. EPA has asked for comment on down to 150
1794 megawatts and 40 percent capacity factors. That would move
1795 us up to 44 percent of all units covering almost 80 percent
1796 of emissions. So there is a really big swing that can happen
1797 there, and we have been looking at that.

1798 The second is on timelines. It makes a lot of sense to

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1799 have longer timelines for big pollution control technology,
1800 construction like CCS, but for things like fuels and
1801 efficiencies. We are looking at whether that can be done on
1802 a shorter timeframe.

1803 *Ms. Clarke. Thank you. It is important that when
1804 policy prioritizes polluters over public health, it is our
1805 most vulnerable community members -- seniors, pregnant women,
1806 children -- who are hurt the most. Further handcuffing our
1807 economy to fossil fuels does nothing but trap our frontline
1808 communities in unhealthy environments, as communities of
1809 color are often the ones bearing a disproportionate share of
1810 the impacts from pollution and climate change.

1811 I mentioned earlier that New York has led the country in
1812 setting emissions reductions goals and making actionable
1813 plans to meet those goals. For example, New York's Peaker
1814 Rule is expected to retire over 1,600 megawatts of fossil
1815 fuel peaker power plants by 2025, setting the state on a path
1816 towards 70 percent renewable energy by 2030, and saving
1817 countless lives caused by environmental pollution.

1818 However, I know not every one of my colleagues is
1819 blessed to represent a state that has taken significant steps

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1820 toward climate pollution reductions. Mr. Duffy, EPA's
1821 proposed rule included necessary flexibility to account for
1822 the different resources and meet states where they are. What
1823 flexibilities are available to states to comply with these
1824 standards, and does that flexibility account for the need for
1825 grid reliability and resiliency?

1826 *Mr. Duffy. Yes. So the way the Clean Air Act works,
1827 EPA sets emission guidelines for existing sources. The
1828 states then write their own plans. Generally, they have to
1829 have those -- the standards be equivalent to what EPA has
1830 proposed. They can go stronger. They can also consider the
1831 remaining useful life and other factors of these plants and
1832 have less stringent standards.

1833 EPA is also taking a lot of comments on how -- whether
1834 or not trading and averaging and different types of
1835 compliance programs could be equivalent with EPA's emission
1836 guidelines. So there is a lot of flexibility for the states
1837 to engage with local communities, with the power plant
1838 owners, and design a plan that works for them.

1839 *Ms. Clarke. Very well. Thank you.

1840 I remain committed to ensuring my constituents have

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1841 clean air to breathe, and that we act with the urgency the
1842 climate crisis demands.

1843 With that, Mr. Chairman, I yield back.

1844 *Mr. Johnson. The gentlelady yields back. The chair
1845 now recognizes the gentleman from Pennsylvania, our vice
1846 chair of the Environment, Manufacturing, and Critical
1847 Materials Subcommittee, Dr. John Joyce.

1848 *Mr. Joyce. First of all, I want to thank you, Chairman
1849 Johnson, for holding today's important hearing.

1850 Over the past few years we have heard the Biden
1851 Administration proudly discuss the so-called wonders of
1852 renewable energy. And unfortunately, the rush to adopt green
1853 technology will have dramatic consequences on the reliability
1854 of the electric grid. This year the regional transmission
1855 organization PJM released a report on the state of the grid
1856 and its load capacity. There were significant decreases in
1857 energy resources for the third year in a row, especially in
1858 coal. This continued decline of energy has led PJM to
1859 project that its reserve margin will decrease from 23 percent
1860 currently to a maximum of 15 percent, or perhaps even as low
1861 as 5 percent by 2030.

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1862 Through my conversations with Pennsylvania utility
1863 companies, I know how close we came last Christmas Eve to
1864 rolling blackouts as the temperatures dropped to below zero
1865 degrees Fahrenheit. I am deeply concerned that escalating
1866 EPA regulations will further push baseload power generation
1867 off the grid and close the critical power plants that are
1868 desperately needed for the energy that my constituents rely
1869 on summer, winter, fall, and spring.

1870 One example in my home state is the closure of Homer
1871 City Generation facility as the largest coal power plant in
1872 the state. Losing its generating capacity will move my
1873 constituents one step closer to the rolling brownouts that
1874 Texas and California have experienced. It could not be
1875 clearer that the regulatory uncertainty created by the EPA is
1876 a large factor driving investment away from plants like
1877 these.

1878 Our nation has led the world in emissions reduction, and
1879 we can continue to do that through American innovation and
1880 American ingenuity. But we cannot afford to let --
1881 government policies written with a misunderstanding of real
1882 world will put Americans at risk.

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1883 My first question is for you, Mr. O'Loughlin. I am
1884 concerned about how deployable some of the new power
1885 generation technology is in the short term. Has a power
1886 plant with carbon capture and storage or a power plant that
1887 is hydrogen co-fired to date been adequately demonstrated for
1888 24/7 power generation and connected to the grid? Does that
1889 exist right now?

1890 *Mr. O'Loughlin. It does not. We don't have any
1891 examples of those in the United States today. And as I said,
1892 the CCS projects that have been demonstrated to date have
1893 been at a much lesser reliability and at a lower quantity of
1894 flue gas that they have been able to treat.

1895 And I think there has been some disagreement about how
1896 reasonable this is and what the effect on reliability is.
1897 EPA has worked on this rule for 18 months. We now have 60
1898 days to digest it and respond to it. And I guess I would
1899 suggest that EPA provide an adequate time for an independent
1900 review of the reliability impacts of this rule, because I
1901 think there is a lot to it and I think that it is likely to
1902 have a very significant negative impact on reliability at
1903 coal plants and at natural gas plants.

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1904 *Mr. Joyce. I share your concerns about that negative
1905 potential impact.

1906 Mr. Nasi, utilities have to make decisions in the next
1907 few years about the future of their generation fleets, and
1908 there is simply not enough time to prove and deploy the
1909 technology that EPA expects. For example, if a coal plant
1910 does not plan to retire, it must be running with carbon
1911 capture and storage at 90 percent by 2030. Similar decisions
1912 will be required for existing natural gas generations, as
1913 they are mandated to add carbon capture or hydrogen in
1914 similar timeframes.

1915 Including the time needed for state regulations to be
1916 implemented, how much time will utilities have to decide the
1917 fate of their existing fleets? Is it 10 years? Is it five
1918 years? Is it two years? What can we expect?

1919 *Mr. Nasi. Well, thank you, Doctor. And on page 11 of
1920 my testimony I put together a graphic, because that is really
1921 the heart and soul of the reliability problem is that by the
1922 time the states get their two -- years and they will use
1923 every bit of that, because they will need it -- we will
1924 basically have three years to build this stuff.

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1925 And every day at power plants -- and I am at their
1926 boards all the time -- they are making capital decisions
1927 about can I afford to keep on putting money into a plant, and
1928 they always evaluate how much life do I have. And if I have
1929 got a 30-year remaining useful life that just got cut down to
1930 10, I am not going to make a capital investment. That is
1931 what accelerates the retirements, is when you force people to
1932 amortize it over a shorter period of time.

1933 *Mr. Joyce. Mr. Snitchler, without a clear path for
1934 replacement of natural gas generation, what are the options
1935 for operators? Will baseload nuclear be available to replace
1936 the 140 gigawatts of coal or the 40 to 60 percent of the coal
1937 fleet within 3 years?

1938 *Mr. Snitchler. Well, given the experience of the
1939 nuclear fleet now, there is only one nuclear unit currently
1940 under construction in the United States, and that is in
1941 Georgia. So I don't think we are going to see a rapid
1942 expansion of nuclear resources that are capable of filling
1943 that gap. And unless there is a technology breakthrough that
1944 we are hoping for -- but you can't plan your grid around hope
1945 -- then we are not going to find ourselves in a spot where we

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1946 have sufficient resources, should those retirements occur.

1947 And so the technologies that are evolving and may work
1948 -- small modular reactors, and carbon capture, and hydrogen
1949 co-firing -- all are great on the drawing board, but they are
1950 not commercially available today. And if we want to meet
1951 those aggressive timelines, you have to have technology that
1952 can be deployable now.

1953 *Mr. Joyce. I think that you concluded with a great
1954 take-home message. We cannot build that just on hope.

1955 Thank you, Mr. Chairman, and I yield.

1956 *Mr. Johnson. The gentleman yields back. The chair now
1957 recognizes the gentleman from California, Mr. Ruiz, for five
1958 minutes.

1959 *Mr. Ruiz. Thank you, Mr. Chairman.

1960 My home state of California has made serious efforts to
1961 move away from an addiction or dependance on fossil fuels as
1962 we look towards the future. The Inflation Reduction Act and
1963 the CHIPS and Science Act have made much-needed investments
1964 in domestic battery manufacturing and lithium recovery. This
1965 funding is essential to advancing renewable energy here at
1966 home.

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1967 A smooth transition -- smooth transition -- is needed to
1968 remove our grids from the dirty climate-changing energy of
1969 the past and catapult us into the future of a new, reliable
1970 and clean energy grid. This includes powering our homes and
1971 businesses with solar, wind, and battery storage, and all of
1972 the above.

1973 However, we cannot move forward at the expense of
1974 vulnerable or frontline communities. We cannot invest in
1975 production without enforcement of the Clean Air Act standard
1976 for healthy air quality. I believe we can advance our grid
1977 while keeping our air quality safe to breathe.

1978 The American Lung Association has given all three of the
1979 counties in my district a failing grade for air particle
1980 pollution, which has serious impacts on the health of my
1981 constituents. And as you know, I am an emergency medicine
1982 physician and public health expert, and that is very
1983 important to me. That is why I am particularly passionate
1984 about supporting the EPA's congressionally-granted authority
1985 to protect the public's health and the environment, including
1986 through pollution standards like the one we are discussing
1987 today.

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1988 And as a physician, I have seen firsthand the connection
1989 between a person's health and the environment where they
1990 live, and the very real effect of environmental injustices.
1991 Communities that face the biggest burdens are often times
1992 marginalized, impoverished communities of color, and they
1993 have 10 years less life expectancy who live in high-polluted,
1994 poor air quality communities than in other places that don't
1995 have the same pollution in their air. So it has real-life
1996 health impacts in the communities.

1997 Mr. Duffy, how would the EPA's proposed rule reduce
1998 pollution from power plants?

1999 *Mr. Duffy. Sure. So this rule will significantly
2000 reduce pollution associated with especially the baseload
2001 plants, but will also control those that are running less
2002 often.

2003 You know, this is -- also, this is part of a whole suite
2004 of power sector rules. Some are more focused on hazardous
2005 air pollutants and local criteria pollutants. This, of
2006 course, is focused on CO2. It will have co-benefits
2007 associated with that. And as you mentioned, the impacts of
2008 climate change are falling most heavily on those overburdened

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2009 communities already.

2010 The other thing EPA is doing in this rulemaking is to
2011 ensure active community engagement when these state plans are
2012 written such that, you know, the concerns of local
2013 communities can be brought to bear when power plants are --
2014 and states are considering how to move forward.

2015 *Mr. Ruiz. Well, according to the American Lung
2016 Association's 2023 report card, my congressional district
2017 ranks as one of the worst for air pollution in the country.
2018 From a large volume of transportation, warehouse development,
2019 and air particulate matter from saline mineral dust in the
2020 Salton Sea region, the communities in my district suffer from
2021 a high rate of asthma and other respiratory health
2022 complications.

2023 Can you elaborate more on the engagement with local
2024 community partners?

2025 *Mr. Duffy. Yes, yes. So EPA has in its proposal, as
2026 well as a complementary rule, which is -- it is called
2027 implementing -- how to implement these sort of 111D
2028 rulemakings -- has really elevated and made it clear that,
2029 you know, shallow community engagement is no longer

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2030 sufficient for meeting the meaningful engagement requirements
2031 of the Clean Air Act. And so they will need to demonstrate
2032 in their plans that they have reached out to the communities
2033 that are most impacted, and that they have gotten sufficient
2034 input about concerns associated with the technologies,
2035 concerns associated with health, et cetera, such that the
2036 plans are reflective of those concerns.

2037 *Mr. Ruiz. One of the biggest concerns are the
2038 cumulative impact of polluting projects, industries that come
2039 in. And taking an individual and assessing the increment of
2040 pollution that they add over time, although the individual
2041 emission can meet certain criteria to allow them to pursue,
2042 over time you are just adding to a conglomerate of dirty air,
2043 which has significant impact.

2044 So where are we with assessing the cumulative impacts?

2045 *Mr. Duffy. Right. I mean, I think that is why it is
2046 so important that Administrator Regan came in and said, you
2047 know, not only for communities, but also for companies we are
2048 going to set the rules of the road early with a lot of lead
2049 time, and we are going to, you know, make sure that our
2050 fossil fleet is operating cleanly. We are going to do that

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2051 by focusing on hazardous air pollutants, on the criteria of
2052 PM, ozone pollutants, and we are going to focus on climate
2053 pollution such that these can be comprehensive solutions that
2054 communities can engage with, power companies can plan, the
2055 grids can plan, the states can plan.

2056 *Mr. Ruiz. As part of meaningful consultation, they
2057 bring community -- and I have worked on this, especially
2058 during -- with some of the tribes that often experience
2059 check-the-box -- we sent out a message and now we -- you
2060 know, now, because they haven't responded, we have done our
2061 job.

2062 *Mr. Duffy. Right.

2063 *Mr. Ruiz. And it is a problem that we are dealing in
2064 in Energy, in this committee, with wanting to allow cable
2065 companies to do the same for tribes to enter their land, to
2066 build, you know, on their land without their permission if
2067 they don't respond within 45 days.

2068 *Mr. Duffy. Right.

2069 *Mr. Ruiz. But part of the meaningful consultation
2070 means to have conversations about mitigation efforts in case
2071 something goes bad.

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2072 *Mr. Duffy. Right.

2073 *Mr. Ruiz. Is that part of the necessity? So in case
2074 something goes bad, that the -- those that pollute the area,
2075 the water -- the air, in this case, can -- there is some kind
2076 of accountability, some kind of recompense to the local
2077 communities?

2078 *Mr. Duffy. Right. So in here EPA has enforcement
2079 authority, obviously, if they do not meet their standards.
2080 And if a plant has committed to retirement or to doing a CCS
2081 project, there are increments of progress to make sure that
2082 they are on a path to achieving those pollution reductions.

2083 *Mr. Johnson. Okay --

2084 *Mr. Ruiz. Thank you.

2085 *Mr. Johnson. Thank you. The gentleman yields back.
2086 The chair now recognizes the gentleman from Georgia, Mr.
2087 Allen, for five minutes.

2088 *Mr. Allen. Thank you, Chairman Johnson, and -- for
2089 holding this important hearing today. And I know we are all
2090 learning a lot, and as we discussed the Biden
2091 Administration's proposed rule that would severely impact the
2092 reliability of our power grid and would shut down American

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2093 energy.

2094 You know, this was going on under the Obama
2095 Administration when I first was elected to Congress. My --
2096 all of my EMCs had spent millions of dollars putting in these
2097 scrubbers to meet that Administration's rule. And, of
2098 course, now here we are. And so, you know, it is no doubt
2099 since President Biden's first days in office, he has launched
2100 a war on fossil fuel.

2101 And it occurred to me sitting in this hearing, you know,
2102 most of my district is rural. My air quality is excellent.
2103 In fact, I need carbon to grow my trees and my crops. And it
2104 seems like, to me, that the big problem is in these big,
2105 congested cities. They are the air quality problem. Why do
2106 people live there? I don't understand that. They can come
2107 to my rural America and have excellent quality of living --
2108 you know, the costs are much lower -- and grow their own
2109 food.

2110 But anyway, the recent proposed rule by the
2111 Environmental Protection Agency, the Clean Power Plan 2.0, is
2112 one of this Administration's latest attempts to end the use
2113 of natural gas in our nation. We have heard today how

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2114 detrimental this would be to the reliability of our grid.

2115 Mr. O'Loughlin, in your testimony you referenced the
2116 retire-or-else strategy of EPA compliance, where you can
2117 avoid excessive compliance costs, if compliance costs is even
2118 possible, by simply retiring units earlier than their planned
2119 service dates. That is a serious issue of reliability.

2120 Last month I asked the EPA Administrator Regan about
2121 whether manufacturers, utilities, or others pay attention to
2122 potential future regulatory costs and compliance costs when
2123 making long-term decisions to maintain or expand operations.
2124 The more EPA signals and outlines what it plans for
2125 regulations, owners of facilities take that into account.
2126 And he agreed they did.

2127 We know from experience that some of EPA's rules will
2128 never be implemented, but that is not the problem. The
2129 problem is EPA appears to be sending as many signals as
2130 possible that future costs are going to increase. And with
2131 that, owners and investors will decide to shut down some
2132 power generation permanently. That is why I am so glad that
2133 we have unit 3 in Georgia in my district running at 100
2134 percent, the first nuclear power facility built. In fact, I

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2135 tell my friends from California they are going to have to
2136 come to Georgia to charge their electric cars.

2137 You know, that is the entire -- that is the retire-or-
2138 else strategy. Administrator Regan refused to say that that
2139 was the case, but from the evidence of all the compliance
2140 requirements across all the rules that the EPA has presented,
2141 utilities and power producers, do you think that is what is
2142 going on, Mr. Nasi, Mr. Snitchler? Would you both like to
2143 share your thoughts on this?

2144 *Mr. Nasi. Yes, I mean, I will start with I do a lot of
2145 work in rural America. Rural electric cooperatives are
2146 trying to serve their populations, and they are having to
2147 make these difficult decisions. And as Mr. O'Loughlin has
2148 done a great job of articulating, you can't sit around that
2149 board table and make multi-million, multi-hundred-million-
2150 dollar decisions to keep a facility going if you have no idea
2151 whether you are going to live out its useful life.
2152 Otherwise, you have to accelerate that expenditure onto the
2153 ratepayers.

2154 So I think it is a very intentional effort, frankly, by
2155 the Administration --

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2156 *Mr. Allen. Yes.

2157 *Mr. Nasi. -- to create that kind of uncertainty.

2158 *Mr. Allen. To punish rural America, yes.

2159 Mr. Snitchler?

2160 *Mr. Snitchler. I think one of the challenges that you
2161 bump into is also that not every resource is the same in that
2162 utilities have a different business model than independent
2163 power producers do. And we don't have captive customers on
2164 which we can rely to recover those costs over any period of
2165 time.

2166 And so when a rule has additional costs or expenses that
2167 are going to be incurred on the part of the shareholders or
2168 the investors, then business decisions have to be made about
2169 whether you are going to continue to operate that, whether
2170 you are going to continue to make investments to prolong its
2171 life, or you make the business decision to say it is more
2172 cost effective to retire it.

2173 *Mr. Allen. I mean, is this a responsible use of EPA's
2174 Clean Air Act authorities, Mr. Snitchler?

2175 *Mr. Snitchler. I won't opine as to whether it is an
2176 appropriate or reasonable use. We find ourselves in the

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2177 position of having to comply with whatever the rules are.
2178 And the challenge I think we find with this rule is that,
2179 unlike the last Clean Power Plan proposal under the Obama
2180 Administration, there isn't a coal fleet that can retire and
2181 a natural gas fleet that will be able to support the system.
2182 If this rule is implemented and it has a negative effect on
2183 natural gas resources, we don't have sufficient wind, solar,
2184 and nuclear to power the country.

2185 *Mr. Allen. Thank you. Thank you so much for your time
2186 and your expertise.

2187 I yield back.

2188 *Mr. Balderson. [Presiding] Thank you, Mr. Allen. Next
2189 up is Mr. Peters from California.

2190 *Mr. Peters. Thank you, Mr. Chairman. I guess I have
2191 been around here a while now. When I first came in the
2192 argument the industry was making was for clean coal, and the
2193 environmentalists were very skeptical of carbon capture.
2194 Today the Administration is asking for clean coal and the
2195 environmentalists like carbon capture. And in fact, carbon
2196 capture and sequestration is a clean energy technology that
2197 is supported by Republicans and Democrats and now a diverse

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2198 group of industries.

2199 In 2020 I was proud to coauthor the USE IT Act with my
2200 Republican colleague from West Virginia, California and West
2201 Virginia working together -- Dave McKinley. That passed in
2202 the spending bill. In 2021 the bipartisan Infrastructure
2203 Investment and Jobs Act provided \$12 billion in new
2204 investments for CCS, and the Inflation Reduction Act made the
2205 strongest investment in CCS to date by increasing the
2206 existing CCS tax credit to \$85 per ton.

2207 As I said, environmentalists had been very skeptical of
2208 this, and now we are trying to offer it, and it is -- now it
2209 is getting resistance.

2210 So despite major technological advancements and broad
2211 support for CCS, my colleagues apparently are choosing to
2212 undermine the technology today. But to be very clear, CCS
2213 will be a cost-effective approach to complying with the
2214 proposed EPA power plant standards, and the proposed rule is
2215 a reasonable, flexible approach to reducing climate pollution
2216 while maintaining an affordable and reliable electric grid.

2217 Beyond the specifics of the rule, I would share my
2218 concern about ensuring that our power system is reliable. I

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2219 do believe we have major challenges ahead of us, particularly
2220 with increasingly severe weather events.

2221 I would just offer that one of the best ways to improve
2222 grid reliability is inter-regional electric transmission,
2223 which can improve reliability by making more power resources
2224 available to grid operators across more geographic locations
2225 so if extreme weather hits one state, a robust system of
2226 inter-regional transmission helps ensure that the power stays
2227 on and the costs stay low. And that transmission doesn't
2228 discriminate among energy sources. The imported power could
2229 come from coal, gas, nuclear, hydro, solar, wind, whatever.

2230 The research is clear that inter-regional transmission
2231 is essential to maintaining an affordable, reliable power
2232 system, and we are terrible at building it today. We are bad
2233 at it. According to the Americans for a Clean Energy Grid,
2234 North America has built just seven gigawatts of
2235 inter-regional transmission, and less than half of that in
2236 the United States. Since 2014, 7. South America has built
2237 22; Europe, 44; and China, 260.

2238 And that is largely a permitting and siting issue. For
2239 example, the Department of the Interior recently approved the

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2240 TransWest transmission line, which will carry power from
2241 Wyoming to California, to begin construction. The permitting
2242 took 15 years. So I invite my colleagues on the other side
2243 to work with us to advance bipartisan transmission policies
2244 for liability, and for better cost for consumers, and for a
2245 stable grid.

2246 So back to this rule. The Intergovernmental Panel on
2247 Climate Change found that carbon capture and sequestration,
2248 or CCS, will be an essential technology to reach our climate
2249 goals by mid-century. Mr. Duffy, can you elaborate on the
2250 role that CCS will play in a decarbonized energy system?

2251 *Mr. Duffy. Sure. So this is more broadly. The, you
2252 know, leading climate experts, economists, energy systems
2253 experts say that carbon capture and sequestration is an
2254 essential tool needed to cut carbon pollution and address
2255 climate change. The International Energy Agency has reached
2256 the exact same conclusion, calling it impossible to meet our
2257 goals without CCS.

2258 *Mr. Peters. Do you agree with EPA's determination that
2259 CCS should be considered a best system of emission reductions
2260 under their proposed rule?

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2261 *Mr. Duffy. I do. As I have said, you know, it is a
2262 technology-forcing, forward-looking statute, and there is
2263 sufficient evidence that the technology is available to be
2264 deployed.

2265 *Mr. Peters. I don't begrudge or -- in any way -- the
2266 industry's skepticism or their statement of a difficulty of
2267 complying. But I just want you to touch on the research
2268 defending CCS as a cost-effective emissions control
2269 technology. Can you comment on that for me?

2270 *Mr. Duffy. Sure, sure. So DoE and NETL have recently
2271 done -- released studies on the costs of CCS. Those are the
2272 costs that EPA uses in this rulemaking. Their cost estimate
2273 for 90 percent CCS, including transport and storage, and
2274 considering 45Q is \$11 a ton for existing gas plants. You
2275 are up \$22 a ton for existing coal plants and up \$15 a ton
2276 for new gas plants.

2277 Now, that is the low end and assumes a high capacity
2278 factor, but EPA undertook a conservative approach, still
2279 found it well within the line of comparable pollution
2280 controls like scrubbers.

2281 *Mr. Peters. And I would just conclude by saying again

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2282 to my colleagues, I am happy to talk about reliability, and I
2283 do think we face real challenges. I just want that
2284 conversation to include transmission as a focus.

2285 And with that, Mr. Chairman, I yield back.

2286 *Mr. Balderson. Thank you, Mr. Peters. Next is me,
2287 next in line.

2288 Welcome, the two Ohio boys. This is like old times,
2289 isn't it?

2290 Thank you all for being here, not only the Ohio ones.
2291 But my first question is for Mr. O'Loughlin, and I would like
2292 to follow up on a point that Mr. Carter raised earlier.

2293 Regardless of future actions or issues that may arise
2294 with litigation down the road, how does the EPA's latest
2295 carbon proposal impact the planning and investments for your
2296 members in Ohio today and the near future?

2297 *Mr. O'Loughlin. Thank you, Congressman. It clearly
2298 creates a stranded cost risk for us today and also going into
2299 the future. It also creates a reliability risk, as the
2300 timeframe that has been laid out is not something that we can
2301 meet. And I think we have looked at other studies. We have
2302 been watching carbon capture technology for some time. It is

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2303 at least 7 to 10 years to put a system into place in a
2304 commercial basis if it would work, which is unclear to us at
2305 this time. And the rule requires it by 2030, and there is
2306 just no way we can make that.

2307 So we are not able to invest in something that can't be
2308 on time, and we don't know what the cost will be because,
2309 ultimately, we are accountable to our consumers for recovery
2310 of that cost, and that is just not a wise use of their funds.
2311 And it is going to have a reliability impact, because it is
2312 going to force -- if it is enacted as proposed, it is going
2313 to force the retirement of several units like ours that right
2314 now provide the backbone of a reliable electric system.

2315 *Mr. Balderson. Okay. Thank you. Continuing, Mr.
2316 O'Loughlin, as you know, the PJM report that came out a few
2317 months ago shows that 40 gigawatts of existing generation in
2318 the region are at risk of retirement by 2030, which you
2319 somewhat just explained there. Do you think renewables can
2320 make up for more retirements that will be forced because of
2321 this policy?

2322 *Mr. O'Loughlin. Well, I don't and, more importantly, I
2323 think PJM does not. And I also think NERC and pretty much

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2324 anybody else that has looked at it has realized that we are
2325 not going to be able to site and build that much --
2326 interconnect that much in that timeframe, and also that it
2327 doesn't provide the same reliability services that the
2328 existing baseload fleet provides and -- because of its
2329 intermittent nature.

2330 And so I think, again, I would say it would be a great
2331 idea for EPA to allow some independent analysis of the
2332 reliability impacts so that you can hear differing views on
2333 it, but why not take a little bit of time and let the
2334 independent authorities like PJM, like NERC go ahead and
2335 study it and tell us what they think? Because that
2336 prediction they made was even prior to this rule being
2337 issued. So -- and I think it is hard to see that it wouldn't
2338 have a further negative impact on reliability.

2339 *Mr. Balderson. Speaking for Ohio, in terms of
2340 potential rate increases, blackouts, or general reliability
2341 concerns, is that all part of it, too?

2342 *Mr. O'Loughlin. It sure is. You know, so I was here a
2343 couple of months ago. Last Christmas Eve we were very close
2344 to having rolling blackouts. We had mandatory conservation

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2345 requests. And we have retired 5,000 megawatts within PJM
2346 just since December. And so we are at a tipping point on
2347 reliability today in Ohio, and we have retired -- we used to
2348 have 21 coal-fired power plants in 2009 operating in Ohio.
2349 Today we have four. We have lost about 15,000 megawatts of
2350 capacity. About half of that has been replaced with other
2351 sources. And we continue to see this having a further
2352 negative effect.

2353 *Mr. Balderson. Thank you.

2354 Mr. Snitchler, as you know, I recently introduced the
2355 Grid Reliability and Resiliency Improvement Act, which would
2356 require NERC, in consultation with FERC, the Department of
2357 Energy, and RTOs and ISOs to issue a report every two years
2358 addressing long-term reliability concerns with the electric
2359 grid.

2360 The PJM report that we have discussed came out months
2361 before the EPA's tailpipe emissions proposal and this Clean
2362 Power Plan 2.0. So the EPA is actively increasing demand
2363 while forcing retirements and taking resources offline.

2364 Do you think it would be a good policy for the agencies
2365 responsible for ensuring grid reliability and the operators

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2366 of the bulk power system report back to us on potential
2367 issues and threatened grid reliability?

2368 *Mr. Snitchler. It would seem to me that having the
2369 people who are most closely aligned and responsible for
2370 reliability ought to be the ones who are advising Members of
2371 Congress about what the situation is on the ground. And so
2372 we would strongly support that type of information being
2373 provided by dispassionate third parties that allow you to
2374 make wise policy choices instead of having aspirational goals
2375 get ahead of operational realities.

2376 *Mr. Balderson. I will follow up with that. And in the
2377 same vein, we know the EPA is issuing these proposals without
2378 providing detailed information on how they will impact
2379 reliability. That is the concern I raised with Administrator
2380 Regan a few weeks ago before the before this subcommittee.
2381 Do you think it would make sense for NERC to provide an
2382 independent assessment before EPA rules affecting the power
2383 sector are finalized and go into effect?

2384 *Mr. Snitchler. I think it would be helpful to have all
2385 of the information. NERC has been providing updates for
2386 years and warnings for at least the last four or five years

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2387 about reliability concerns that it sees. So their
2388 involvement and engagement in rulemaking to at least have an
2389 eyes-wide-open approach seems like that would be an informed
2390 way for rulemakings to proceed.

2391 *Mr. Balderson. Okay. Thank you all very much. I
2392 yield back my time and I yield now to the gentlelady from
2393 California, Ms. Barragan.

2394 *Ms. Barragan. Thank you, Mr. Chairman.

2395 The EPA's new carbon pollution standards for power
2396 plants is important for the U.S. efforts to fight the climate
2397 crisis and to reduce air pollution in communities of color.
2398 Ninety percent of the top fifty polluters are power plants
2399 that burn coal or gas. Many are in low-income communities
2400 and communities of color.

2401 Mr. Duffy, how will the EPA propose carbon pollution
2402 standards benefit environmental justice communities?

2403 *Mr. Duffy. Sure. So this is part of a whole suite of
2404 EPA actions focusing on local pollutants, hazardous
2405 pollutants. And this, of course, is focused on CO2, which
2406 has broad implications, but of course environmental justice
2407 communities are -- have a -- are shouldering a heavier burden

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2408 of the impacts.

2409 This rule also, you know, has co-benefits that --
2410 particulate matter and other pollutants that will impact
2411 public health, also requires meaningful engagement during the
2412 state planning process.

2413 *Ms. Barragan. Well, thank you. I can tell you that in
2414 my congressional district doctors' offices and the clinics
2415 have asthma inhalers, like, stocked up in boxes because they
2416 are expecting more children there to come in who have
2417 developed asthma because of the air pollution and the impact
2418 there.

2419 Mr. Duffy, why is it important that existing gas plants
2420 were included in the proposed rule?

2421 *Mr. Duffy. Yes, thank you for this question. It is
2422 really important.

2423 First is because the Clean Air Act requires it. EPA set
2424 standards for new gas plants in 2015. That sets a -- that
2425 triggers a responsibility to set standards for the existing
2426 gas fleet.

2427 Second, in 2022 the gas fleet emitted 661 million metric
2428 tons of CO2. That is 43 percent of total sector CO2

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2429 emissions. The emissions from the gas fleet have increased
2430 by 65 percent since 2010.

2431 And third, not covering the existing gas fleet is kind
2432 of robbing Peter to pay Paul. You end up just leaking all of
2433 the emissions from, you know, from coal and the other sources
2434 that -- sectors that are regulated, and the existing gas
2435 fleet will just run more. And that is unacceptable when
2436 there is a pollution control that is cost reasonable and
2437 available.

2438 *Ms. Barragan. Thank you. One of the concerns that I
2439 have is that only the largest gas plants that run the most
2440 frequently are covered.

2441 *Mr. Duffy. Yes.

2442 *Ms. Barragan. However, smaller gas plants that mainly
2443 run during the hottest summer months can cause unhealthy air
2444 in frontline communities. How important is it for our
2445 climate and environmental justice efforts for the EPA to
2446 strengthen the rule to cover more gas power plants?

2447 *Mr. Duffy. Very important. And we are looking at
2448 that, and will likely be advocating for expanded coverage.
2449 Right now, EPA is proposing to cover seven percent of the

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2450 natural gas units. They are requesting comment on taking a -
2451 - on covering a larger portion, and that would end up
2452 covering 80 percent of emissions if it was down to what --
2453 the lowest thing that they are taking comment on, which is, I
2454 think, 100 megawatts and 40 percent capacity factor.

2455 *Ms. Barragan. Great, thank you. Mr. Duffy, there has
2456 also been support from the White House for a more ambitious
2457 timeline of 2035 for coal plants to curb emissions by 90
2458 percent or retire, rather than year 2040. It is a faster
2459 timeline feasible, and should this rule be strengthened to
2460 include it?

2461 *Mr. Duffy. Yes, I -- well, I am trying to get the
2462 timelines right. I think if you -- for coal, if you retire
2463 by 2040 you need to start -- you need to install -- if you
2464 retire after 2040, the compliance period is 2030. For gas it
2465 is out to 2035. So with gas, with the gas fleet, yes.

2466 I think there are places where these big, kind of carbon
2467 capture, hydrogen pollution control technologies will need
2468 time to build out, to construct, to get permitted, et cetera.
2469 But the other pollution standards that are associated with
2470 efficiencies and fuels, those can be done on a shorter

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2471 timeline.

2472 *Ms. Barragan. And Mr. Duffy, is there anything else
2473 that you haven't been asked today, or information that you
2474 think should be shared with the public?

2475 *Mr. Duffy. No, I think, you know, the agency is doing
2476 exactly what the Supreme Court told it to do. It is basing
2477 reasonable standards for the biggest polluters on traditional
2478 inside-the-fence approaches that are going to cause these
2479 power plants to operate more cleanly and protect public
2480 health.

2481 *Ms. Barragan. Well, thank you. Thank you for your
2482 work. You know, I am a big advocate for environmental
2483 justice communities to make sure that we all have access to
2484 clean air and to be able to breathe clean air. We have seen
2485 the health impacts. I have heard from constituents and
2486 people across the country who just want to breathe clean air
2487 and who are seeing the impacts to climate and these
2488 emissions. So thank you.

2489 With that, I yield back.

2490 *Mr. Balderson. Thank you. I now turn it over to the
2491 gentleman from Texas, Mr. Pfluger.

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2492 *Mr. Pfluger. Thank you, Mr. Chairman, and I thank the
2493 witnesses for being here.

2494 This is a national security issue. We are literally
2495 facing decisions and a pacing of the decisions that will lead
2496 us to a grid that not only is unreliable, but it will make
2497 the winter storms and the other events that we have seen
2498 recently, honestly, look like a junior varsity exercise when
2499 you have a lack of dispatchable and readily available energy.

2500 I will start by saying that in the last 10 years a
2501 billion people have been lifted out of poverty worldwide, and
2502 that has happened because we have affordable, reliable energy
2503 that is able to get to places like sub-Saharan Africa, the
2504 Indian subcontinent, and other places in the world that have
2505 never had energy before. So the fact that we are literally
2506 facing rule after rule after rule from unelected bureaucrats
2507 who are not cooperating, communicating, or consulting with
2508 industry, with communities, with Congress is unbelievable.

2509 Our current baseload, annual baseload, demands about
2510 four trillion kilowatt hours per year. And so my question --
2511 I will start with Mr. Nasi.

2512 I really enjoyed your testimony, and all of you. Does

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2513 the EPA or the Department of Energy have a plan for providing
2514 baseload power when you look at what they are trying to do
2515 with this latest rule?

2516 *Mr. Nasi. Well, I mean, first and foremost, it is
2517 EPA's statutory obligation to evaluate those impacts, but not
2518 to do so in a silo. And that is one of the fundamental
2519 things that I think you have heard many of us say, is that
2520 this thing needs to be rebooted with real consultation, not
2521 just with NERC, FERC, but also with the regional transmission
2522 organizations and, ultimately, those who have the sovereign
2523 power over the grids: the states. It is the exclusion of
2524 the states that is the biggest problem to me, as a
2525 practitioner, because we are the ones who actually are on the
2526 ground keeping the grid alive, as you know. We both
2527 experienced Winter Storm Uri.

2528 So it is a problem, and so they need to start over. And
2529 frankly, before they do a rule they should evaluate what is
2530 possible, not try to rationalize how we might get out of it
2531 after they have already cooked the rule.

2532 *Mr. Pfluger. Do you think that they have a plan?

2533 *Mr. Nasi. They --

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2534 *Mr. Pfluger. And have they done the math?

2535 *Mr. Nasi. They have models. And I have already said
2536 their models explicitly contradict the data and the actual
2537 real-world expectations of power plant operators. And it is
2538 not the first time.

2539 We try to work with the EPA to improve their models. I
2540 think there is a lot of well-intentioned people at EPA, but
2541 the fact is that this rule has a model that doesn't measure
2542 up to reality.

2543 *Mr. Pfluger. Mr. O'Loughlin -- thank you for that.
2544 Mr. O'Loughlin, do you think that the EPA has done the math
2545 on what is going to be required, supply-wise, to meet demand?

2546 *Mr. O'Loughlin. Well, they have done some modeling,
2547 and I would just suggest that they take the time and go ahead
2548 and let the independent reliability experts, the ISOs like
2549 PJM, NERC go ahead and do an independent reliability
2550 assessment, and let's just see what an independent view of
2551 that looks like.

2552 *Mr. Pfluger. A couple of weeks ago we had the
2553 Secretary of Energy before this committee, the full
2554 committee, and I asked her what the demand would grow to if

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2555 the 2032 EV mandate took place. And I quote, it would
2556 double.

2557 Do we have the ability to service a doubling of
2558 electricity demand with this EPA rule, Mr. O'Loughlin?

2559 *Mr. O'Loughlin. Yes, we are strained today. We don't
2560 -- this is not going to enable the baseload capacity that we
2561 are going to need to meet greater demand.

2562 And oh, by the way, you know, carbon capture requires
2563 about 25 percent of the output of a power plant to operate.
2564 Hydrogen is electrolysis, green -- is a very electric-
2565 intensive activity, so those would be further demands on the
2566 electric system that we would see placed through this rule.

2567 *Mr. Pfluger. Why are companies shutting down their
2568 carbon capture plants, carbon capture, you know, features of
2569 production plants right now?

2570 *Mr. O'Loughlin. Yes, well, I am not intimately
2571 familiar, but I do understand that the two that have been
2572 operating in North America are -- largely have been providing
2573 for enhanced oil recovery as part of their economic stream,
2574 which is unclear that this rule would even allow for that,
2575 which we haven't really talked much about, but it also

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2576 requires storage of carbon dioxide, which is something that
2577 is definitely unproven at the scale that is being requested
2578 here.

2579 *Mr. Pfluger. And I think that is the reason.

2580 And Mr. Chairman, I would like to submit for the record
2581 a letter from the Texas General Land Office to the EPA
2582 highlighting Dr. Buckingham's extreme concern with the EPA's
2583 implementation of this Clean Power Plan 2.0.

2584 *Mr. Johnson. [Presiding] Without objection, so
2585 ordered.

2586 [The information follows:]

2587

2588 *****COMMITTEE INSERT*****

2589

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2590 *Mr. Pfluger. You know, the -- I just spoke with the
2591 CEO, one of your colleagues, Mr. O'Loughlin, just a few
2592 minutes ago outside. And I think the answer to this question
2593 of why carbon capture is not working is because it is not
2594 financially sustainable. It doesn't work. Without the funds
2595 and the subsidies, it doesn't work. In fact, the only carbon
2596 pollution that I think is dangerous at this point in time is
2597 that which fills the halls of Congress with the hot air that
2598 comes out, and doesn't actually look at the financial and
2599 economic impacts to our country.

2600 So I appreciate everyone's testimony today. We have to
2601 do the math. And if Secretary Granholm is right, and energy
2602 demand is going to double, then this is a terrible plan that
2603 we would be -- we would not suit our constituents well by not
2604 pushing back on it.

2605 With that, Mr. Chairman, I yield back.

2606 *Mr. Johnson. The gentleman yields back. The chair now
2607 recognizes the gentleman from Idaho, Mr. Fulcher, for five
2608 minutes.

2609 *Mr. Fulcher. Thank you, Mr. Chairman. And to the
2610 panel, thank you for your flexibility. We, as you probably

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2611 know, we have got dueling committees today. And so what I
2612 ask may be a rerun, and so for that I will ask for
2613 forgiveness in advance.

2614 But, Mr. O'Loughlin, I just caught the tail end of your
2615 comments on this last go-around here. And given this Clean
2616 Power Plan, can electric generating units realistically and
2617 economically achieve these -- this Biden Administration goal
2618 and the timeline, given this new set of rules?

2619 *Mr. O'Loughlin. Yes, well, my understanding of the
2620 timeline is the answer is no to that on the timeline. I
2621 think it is unclear and undemonstrated whether carbon capture
2622 will be able to provide the level that is being requested.
2623 But what we have today has not been demonstrated.

2624 And so it is very difficult for small companies like
2625 ours and others to invest in projects that are unclear
2626 whether they will work and that are unclear whether they can
2627 meet the timelines that are required. And it is unclear
2628 whether they can meet the standards that are required, even
2629 if they do work. So it makes it something that we can't in
2630 good faith spend our member consumers' money on.

2631 *Mr. Fulcher. Just to follow up that, do you know if --

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2632 how many coal-fired plants, how many natural-gas-fired plants
2633 will be forced to retire as a function --

2634 *Mr. O'Loughlin. Yes --

2635 *Mr. Fulcher. -- of this?

2636 *Mr. O'Loughlin. I don't know the answer to that. I
2637 know EPA has modeled some things, but I would expect it would
2638 be nearly all the coal-fired power plants would have to
2639 retire in this country if this rule is implemented. There
2640 are a few that have already begun working on carbon capture
2641 projects that might have a chance of at least trying to put
2642 those in service. But most of the industry can't possibly
2643 meet this timeline for coal plants.

2644 Natural gas has a little bit longer, so it is a little
2645 less clear to me what they -- whether they will be able to do
2646 it. But I think the bigger question is whether they will be
2647 willing to invest the money in this unproven technology.

2648 *Mr. Fulcher. Thank you for that.

2649 Mr. Nasi, I am going to direct this to you. I know you
2650 have got some legal background, but if there is someone else
2651 on the panel that wants to take a crack at it, I am perfectly
2652 fine with that, too. Permitting seems to be such a

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2653 significant issue. I can tell you in my state, whether it be
2654 power plants or any kind of a project, you name it, the
2655 permitting always is an issue.

2656 Do you think, given the -- what you understand about
2657 this rule, this new set of rules, will electric companies be
2658 able to build and obtain the permits for CCS hydrogen
2659 infrastructure that is required, moving forward?

2660 *Mr. Nasi. Yes, I mean, as a practitioner in the space,
2661 there is no possibility that we will be able to permit the
2662 scale of pipeline infrastructure necessary to actually
2663 transport CO2 to storage facilities across the entire fleet,
2664 or even a significant component of it.

2665 And, you know, the congressman from California raised
2666 the point about permitting, and how it takes 15 years to do a
2667 transmission line. Welcome to pipeline construction. We
2668 know they are not exactly non-controversial. Rural America
2669 has -- I think, correctly -- got rights to actually stand up
2670 against condemnation when it doesn't make sense.

2671 And so it -- projects are hard and they take a long
2672 time. We don't mandate technology requirements based on the
2673 hope that all that is going to work out and we are going to

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2674 do it three times faster than we ever have. That is just not
2675 the way the Clean Air Act works.

2676 *Mr. Fulcher. Yes, thank you for that. I have got a
2677 minute left.

2678 Mr. Duffy, Mr. Snitchler, if either of you would like to
2679 comment on that, you are certainly welcome in the minute I
2680 have got left.

2681 *Mr. Duffy. I would just say, I mean, you will get no
2682 argument from me that permitting, you know, needs to be
2683 expedited, but it needs to be done in an environmentally
2684 conscious way.

2685 But as far as, you know, class six permits and things
2686 like that, we certainly need to ensure that the
2687 infrastructure that will support this transition is able to
2688 be built out.

2689 *Mr. Fulcher. Okay.

2690 *Mr. Snitchler. I think it is clear that there are a
2691 lot of knock-on effects to this proposed rule that would
2692 require significant amounts of investment: permitting,
2693 siting, construction, labor, all of the materials that will
2694 be required that I don't think are properly accounted for in

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2695 the timeline that has been established.

2696 *Mr. Fulcher. Thank you for that. Thank you to the
2697 panel.

2698 Mr. Chairman, I yield back.

2699 *Mr. Johnson. Would the gentleman yield?

2700 *Mr. Fulcher. Yes, I will yield.

2701 *Mr. Johnson. I thank the gentleman for yielding. I
2702 want to follow up on a question that I asked and I, if I
2703 could, just get a quick yes-or-no answer from you folks.

2704 Do you see the inability to heat our homes in freezing
2705 winter temperatures, the inability to cool our homes in the
2706 heat of the summer in rural Appalachia, and the inability to
2707 cook our food because we don't have electricity because of
2708 brownouts or blackouts, do you see that as a public health
2709 problem, Mr. O'Loughlin?

2710 *Mr. O'Loughlin. I do, and I would say that the lower-
2711 income portion of the people that we serve are the most
2712 negatively affected by that.

2713 *Mr. Johnson. Okay. Mr. Snitchler?

2714 *Mr. Snitchler. I would agree that that is a public
2715 health problem.

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2716 *Mr. Johnson. Mr. Duffy?

2717 *Mr. Duffy. Yes.

2718 *Mr. Johnson. Okay, thank you.

2719 *Mr. Nasi. Yes.

2720 *Mr. Johnson. Mr. Nasi? Okay, thank you.

2721 I yield back, and with that --

2722 *Mr. Fulcher. I --

2723 *Mr. Johnson. -- I now recognize the gentlelady from
2724 Iowa, Dr. Miller-Meeks.

2725 *Mrs. Miller-Meeks. Thank you, Mr. Chair, and I thank
2726 all of our witnesses for being here.

2727 First, let me state -- because I do this at every
2728 hearing we have on Energy and Commerce -- that Iowa is a
2729 state where over 50 percent of its energy is from renewables.
2730 We are now almost up to 60 percent of our electricity is from
2731 wind, and we are an exporter of energy. Despite that, last
2732 year there was concern that we were going to have brownouts
2733 and rolling blackouts in Iowa from a lack of energy.

2734 And so as I think about this entire process, and I
2735 watched what unveiled in Europe this past winter and their
2736 energy crisis in Europe, which was already imposed upon very

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2737 high electricity prices, and then when I think about the
2738 EPA's recently proposed greenhouse gas emissions standards
2739 for coal and natural-gas-fired power plants, I have immediate
2740 concerns about our ability to ensure electric reliability and
2741 meet increased energy demand in the United States, which --
2742 we know demand is going up. At both COP26 and COP27 they
2743 readily admitted demand is going up.

2744 And I also think about the consequences of power
2745 shortages. Of course it varies by region, but there are
2746 several days, if not months of the year that heating and
2747 cooling American's homes is not a luxury, but a necessity.
2748 In fact, a 2012 study showed that the installation of air
2749 conditioning in American homes is the reason why the chances
2750 of dying on an extremely hot day fell 80 percent over the
2751 past half century.

2752 In a previous hearing at the Energy Subcommittee I spoke
2753 about the lives lost globally each year from heat and cold.
2754 Lancet and Wall Street Journal articles in 2021 indicated
2755 exposure to hot or cold temperatures is associated with over
2756 5 million premature deaths globally each year. Heat death is
2757 responsible for about 1 percent of global fatalities,

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2758 600,000, but cold kills 8 times as many people, 4.5 million
2759 annually.

2760 A 2019 study from the National Bureau of Economic
2761 Research estimates that, by driving down gas prices, the
2762 fracking revolution saved more than 11,000 American lives
2763 annually since 2010. Natural gas, targeted by the EPA's
2764 proposed rule, provided 40 percent of the electricity
2765 nationally in 2022. And as we have already heard, Secretary
2766 Granholm estimated that the demand for electricity would
2767 double with the emission standards yielding to electric
2768 vehicles.

2769 If the U.S. does not have the energy to make up what the
2770 EPA proposes to take offline with this rule, it will cost
2771 lives, not just harm the economy. It is not pie in the sky.

2772 It is always puzzling to me as a doctor that -- Mr.
2773 Duffy, do you think our air is cleaner than it was 15 years
2774 ago?

2775 *Mr. Duffy. Yes.

2776 *Mrs. Miller-Meeks. So our air is vastly cleaner than
2777 it was 15 years ago, but yet my colleagues on the other side
2778 of the aisle want to continually allude to increasing asthma

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2779 rates, and it has puzzled me. We are saving lives because of
2780 air conditioning and heating because we have affordable,
2781 reliable electricity, but yet we have cleaner air and asthma
2782 is going up. Maybe we did the wrong thing in the EPA.

2783 Mr. O'Loughlin, the North American Electric Reliability
2784 Corporation, NERC, and RTOs like PJM have warned that energy
2785 availability and electric reliability in the United States
2786 are already at risk as of today. EPA's proposed ruling would
2787 place further restrictions on power plants that would force
2788 early closures of key baseload energy facilities.

2789 Looking to the future, McKinsey's estimated that
2790 electricity demand is expected to triple by 2050. How will
2791 the United States be able to meet the significant increase in
2792 demand if EPA's regulations are finalized?

2793 *Mr. O'Loughlin. Well, that is a great question. I
2794 wish I had a great answer for you, because I am not really
2795 sure how we will be able to meet increased demand with
2796 diminished electric supply.

2797 *Mrs. Miller-Meeks. Does anyone know what the carbon
2798 emissions are from the mining of lithium, cobalt, rare earth
2799 elements that go into a solar panel, or the steel for

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2800 manufacturing for wind turbines, or the petroleum that goes
2801 into wind turbines for their -- or the disposal of those said
2802 units when their life expectancy is expired? Do we know the
2803 carbon emissions? Mr. Duffy, do you know the carbon
2804 emissions?

2805 *Mr. Duffy. I know that there is there is no silver
2806 bullet, and that all of these --

2807 *Mrs. Miller-Meeks. So you have taken that into account
2808 at the EPA?

2809 *Mr. Duffy. EPA's job is to look at these power plants
2810 and determine the best system of pollution control for those
2811 power plants.

2812 *Mrs. Miller-Meeks. So you don't care about the
2813 pollution control of other sources of energy?

2814 *Mr. Duffy. We certainly do. But what we are talking
2815 about today is the rule at issue here.

2816 *Mrs. Miller-Meeks. Thank you. And Mr. Snitchler, how
2817 will the closure of natural gas production affect our carbon
2818 emissions?

2819 *Mr. Snitchler. Natural gas has led to the largest
2820 reduction in emissions in U.S. history. Since 2005

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2821 restructured regions around the country have had emissions
2822 dropped by north of 35 percent. So we are actually going in
2823 the wrong direction if we try to eliminate natural gas, which
2824 has been the largest driver of reduced emissions.

2825 *Mrs. Miller-Meeks. Thank you very much.

2826 Mr. Chair, I yield back my time.

2827 *Mr. Johnson. The gentlelady yields back. The chair
2828 now recognizes the gentleman from California, Mr. Obernolte,
2829 for five minutes.

2830 *Mr. Obernolte. Well, thank you very much, Mr.
2831 Chairman. Thank you to our witnesses. This is a very
2832 important hearing on a very important topic.

2833 Mr. O'Loughlin, thanks for your testimony. I would like
2834 to kind of narrow down exactly what we mean when we talk
2835 about the fact that electricity prices would increase, should
2836 this rule be implemented. Can you tell us what the -- your
2837 average current customer pays for a kilowatt hour of
2838 electricity, and how much that would go up should this rule
2839 become law?

2840 *Mr. O'Loughlin. Yes. Our average price today in Ohio
2841 for electricity in a rural cooperative is between \$0.13 and

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2842 \$0.14 a kilowatt hour, which is pretty close to the national
2843 average. And most of that, about two-thirds of that cost is
2844 made up of the cost of production of generating that
2845 electricity.

2846 I wish I could tell you how much our costs would
2847 increase if we had to implement this rule, but unfortunately,
2848 I am unable to estimate that because I am not really sure
2849 what we are going to do to replace our electricity and what
2850 the market conditions for electricity will likely be if we
2851 have a shortage, other than I know it will be considerably
2852 higher than it is today.

2853 We would replace some with some renewables at a somewhat
2854 higher cost, and we would be forced to close our plants and
2855 have stranded assets which we would need to continue to
2856 recover for the next 10 or 12 years from our member
2857 consumers. And then we would be purchasing electricity to
2858 make up the difference in a constrained market, which I
2859 expect would be significantly higher than today's market
2860 prices.

2861 *Mr. Obernolte. So, I mean, it stands to reason by a
2862 substantial increase we are not talking about a cent or two

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2863 per kilowatt hour.

2864 *Mr. O'Loughlin. Yes.

2865 *Mr. Obernolte. We are talking about something more
2866 substantial.

2867 *Mr. O'Loughlin. I would expect it to be much more
2868 substantial than --

2869 *Mr. Obernolte. Like doubling?

2870 *Mr. O'Loughlin. Like -- yes, I would be speculating at
2871 that point, but it would be easy to see it going up 50
2872 percent or more, yes.

2873 *Mr. Obernolte. Thank you very much.

2874 Mr. Duffy, it -- I was very interested in your
2875 testimony. And by the way, thank you for being here. It is
2876 not easy to be the opposite -- the opposition witness, I
2877 know.

2878 [Laughter.]

2879 *Mr. Duffy. I appreciate that.

2880 *Mr. Obernolte. You used a couple of terms multiple
2881 times. You used the words "affordable" and "cost
2882 reasonable."

2883 *Mr. Duffy. Mm-hmm.

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2884 *Mr. Obernolte. So is a 50 percent increase in the cost
2885 of energy, is that affordable and cost reasonable?

2886 *Mr. Duffy. I don't know about that. But I do know
2887 what EPA did estimate as the electricity price increases.
2888 The Inflation Reduction Act reduces electricity prices four
2889 percent. There is a 2 percent increase in retail price in
2890 2030, which goes down to a quarter of a percentage increase
2891 by 2035, and .08 percent increase in 2040 associated with
2892 EPA's modeling for this rule.

2893 *Mr. Obernolte. I am sorry, you lost me there. The EPA
2894 believes that their rule would decrease the cost of
2895 electricity?

2896 *Mr. Duffy. No, this is a two percent increase. I was
2897 saying the Inflation Reduction Act, in and of itself --

2898 *Mr. Obernolte. Sure, sure. We are talking about this
2899 proposed rule, you know, in isolation.

2900 *Mr. Duffy. Yes. So in isolation, a 2 percent increase
2901 in retail price, 2030; a less than a quarter percent increase
2902 in 2035; and .08 percent in 2040. The benefits of this rule
2903 outweigh the costs seven to one.

2904 *Mr. Obernolte. Okay. Mr. O'Loughlin, who is the

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2905 expert, because he runs a co-op that does energy generation,
2906 just testified that it is going to increase costs 50 percent
2907 for his customers. Do you -- is that wrong?

2908 *Mr. Duffy. I don't have the background information to
2909 know if that is wrong or right. All I can go by is what EPA
2910 has modeled here.

2911 *Mr. Obernolte. Okay. Well, I mean --

2912 *Mr. Duffy. I am sure he is being forthright, but I
2913 don't know the --

2914 *Mr. Obernolte. There is --

2915 *Mr. Duffy. -- background.

2916 *Mr. Obernolte. I am just saying that there is a huge
2917 disparity between the EPA saying, you know, a 2 percent cost
2918 increase and system operators saying a 50 percent cost
2919 increase.

2920 Okay, well, you know, let me just, in the time I have
2921 got, illustrate something that is very poignant for the
2922 people that I represent. I represent a lot of folks that are
2923 on a fixed income, they are retired. They struggle to pay
2924 their bills. My home town -- I wish, Mr. O'Loughlin, that I
2925 lived in your service area, because my local electric

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2926 provider just submitted a rate case to the California Public
2927 Utility Commission asking for base electric rates to be
2928 increased over \$0.40 a kilowatt hour.

2929 Every time those rates go up, more and more of the folks
2930 that I represent get driven into poverty. There was a study
2931 that just occurred a couple of months ago that said that over
2932 a third of Americans have had to choose between paying an
2933 energy bill and paying for other household goods in the last
2934 year. You know, that should be meaningful to everybody.

2935 So we are all protectors of our environment. We want to
2936 be good stewards of our planet. You know, we have to balance
2937 the requirement to do that with also the requirement to
2938 provide basic necessities to the people that live here. And
2939 it is going to be a balance. It can't be all of one or the
2940 other.

2941 And my problem with this proposed rule, an increase of
2942 50 percent does not seem affordable or cost reasonable to me.
2943 And so I really think it needs to be rethought and re-
2944 examined. But I want to thank you very much for your
2945 testimony.

2946 Mr. Chairman, I yield back.

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2947 *Mr. Johnson. The gentleman yields back. And seeing
2948 there are no further members asking -- wishing to ask
2949 questions, I would like to thank, once again, all of our
2950 witnesses from -- for being here today.

2951 I ask unanimous consent to insert in the record the
2952 documents included on the staff hearing documents list.

2953 Without objection, that will be the order.

2954 [The information follows:]

2955

2956 *****COMMITTEE INSERT*****

2957

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2958 *Mr. Johnson. Pursuant to committee rules, I will
2959 remind members that they have 10 business days to submit
2960 additional questions for the record, and I ask that witnesses
2961 submit their response within 10 business days upon receipt of
2962 the questions.

2963 Without objection, the subcommittee is adjourned.

2964 [Whereupon, at 12:59 p.m., the subcommittee was
2965 adjourned.]