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6 THE CLEAN FUTURE ACT:

7 INDUSTRIAL CLIMATE POLICIES TO CREATE

8 JOBS AND SUPPORT WORKING COMMUNITIES

9 THURSDAY, MARCH 18, 2021

10 House of Representatives,

11 Subcommittee on Environment and Climate Change,

12 Committee on Energy and Commerce,

13 Washington, D.C.

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17 The subcommittee met, pursuant to call, at 11:01 a.m.
18 via Webex, Hon. Paul Tonko [chairman of the subcommittee],
19 presiding.

20 Present: Representatives Tonko, DeGette, Schakowsky,
21 Sarbanes, Clarke, Ruiz, Peters, Dingell, Barragan, McEachin,
22 Blunt Rochester, Soto, Pallone (ex-officio); McKinley,
23 Johnson, Mullin, Hudson, Carter, Duncan, Palmer, Curtis,
24 Crenshaw, and Rodgers (ex-officio).

25 Staff Present: Jeff Carroll, Staff Director; Jacqueline
26 Cohen, Chief Environment Counsel; Adam Fischer, Professional
27 Staff Member; Waverly Gordon, General Counsel; Tiffany

28 Guarascio, Deputy Staff Director; Caitlin Haberman,
29 Professional Staff Member; Perry Hamilton, Deputy Chief
30 Clerk; Zach Kahan, Deputy Director Outreach and Member
31 Service; Rick Kessler, Senior Advisor and Staff Director,
32 Energy and Environment; Mackenzie Kuhl, Press Assistant;
33 Brendan Larkin, Policy Coordinator; Dustin Maghamfar, Air and
34 Climate Counsel; Elysa Montfort, Press Secretary; Kaitlyn
35 Peel, Digital Director; Tim Robinson, Chief Counsel; Chloe
36 Rodriguez, Deputy Chief Clerk; Nikki Roy, Policy Coordinator;
37 Andrew Souvall, Director of Communications, Outreach, and
38 Member Services; Rebecca Tomilchik, Policy Analyst; Sarah
39 Burke, Minority Deputy Staff Director; Michael Cameron,
40 Minority Policy Analyst, CPC, Energy, Environment; Jerry
41 Couri, Minority Deputy Chief Counsel for Environment; Nate
42 Hodson, Minority Staff Director; Peter Kielty, Minority
43 General Counsel; Mary Martin, Minority Chief Counsel, Energy
44 & Environment; Brandon Mooney, Minority Deputy Chief Counsel
45 for Energy; Peter Spencer, Minority Senior Professional Staff
46 Member, Energy; and Michael Taggart, Minority Policy
47 Director.

48

49 *Mr. Tonko. Well, good morning, everyone. The
50 Subcommittee on Environment and Climate Change will now come
51 to order.

52 Today's hearing is entitled, "The CLEAN Future Act:
53 Industrial Climate Policies to Create Jobs and Support
54 Working Communities," and we will examine several provisions
55 of the recently-introduced H.R. 1512.

56 Due to the COVID-19 public health emergency, today's
57 hearing is being held remotely. All members and witnesses
58 will be participating via video conferencing.

59 As part of our hearing, microphones will be set on mute
60 for purposes of eliminating inadvertent background noise.
61 Members and witnesses, you will need to unmute your
62 microphone each time you choose to speak.

63 Documents for the record can be sent to Rebecca
64 Tomilchik at the email address we have provided to staff.
65 All documents will be entered into the record at the
66 conclusion of the hearing.

67 I now recognize myself for 5 minutes for an opening
68 statement.

69 I grew up and continue to live in a mill town,
70 Amsterdam, New York, formerly one of the largest carpet-
71 producing cities in the world. And when I was young, the
72 mills closed. My grandparents were among those workers who,
73 through no fault of their own, lost their jobs. Those mills

74 went to the southern States, and then eventually offshore.
75 And the people and community left behind had little to no
76 support for many, many years.

77 I have spent my life, along with other community
78 leaders, working to revitalize our city, to rebuild by
79 building new infrastructure, redevelop waterfront industrial
80 properties, and attract new and innovative businesses. It
81 has taken 60 years, and there is still more work to be done.

82 These types of economic disruptions have happened
83 before. They are happening right now, and they will continue
84 happening, whether or not we pass the CLEAN Future Act.
85 There is always some risk when a community relies on one
86 employer or one industry. We can pretend this is not the
87 case, or we can work together and do better for the people
88 and communities facing this challenge today than was done for
89 my grandparents and my home town.

90 With a national commitment, as is proposed in the CLEAN
91 Future Act, we can treat energy workers with respect. We can
92 provide the resources to accelerate local economic
93 redevelopment and diversification, and we can provide
94 fairness for the workers and communities that have powered
95 our country for decades.

96 The bill proposes a framework for a national energy
97 transition strategy. This has been done for other issues of
98 national importance that cut across several federal agencies.

99 For example, the Office of National Drug Control Policy; the
100 Office of Science and Technology Policy; and the Council on
101 Environmental Quality.

102 And importantly, this approach recognizes that it is not
103 for me or anyone else in Washington to try to dictate these
104 transitions. It must be a community-driven process, since
105 every affected community will have different needs, different
106 wants, and different assets. The CLEAN Future Act provides
107 federal resources and technical assistance to empower local
108 community leaders to manage their own economic transitions.

109 This hearing will also examine some of the bill's
110 provisions regarding the industrial sector. We know the
111 industrial sector is diverse, and does account for a large
112 amount of emissions. Some subsectors are energy-intensive,
113 trade-exposed, and difficult to decarbonize. Decarbonizing
114 the United States industry requires investing in the United
115 States industry. And investing in our manufacturers is the
116 key to America's long-term global competitiveness.

117 The CLEAN Future Act includes several provisions to make
118 those investments. This includes the Clean Energy and
119 Sustainability Accelerator, which provides access to
120 financing to make investments across numerous sectors in
121 support of our Nation's clean energy transition.

122 The CLEAN Future Act also includes an innovative Buy
123 Clean proposal that leverages public procurement to support

124 low-emissions industrial products. Well over 22 percent of
125 the U.S. climate emissions are from the industrial sector. A
126 small number of facilities make up a very large share of that
127 total.

128 Many of these products, including cement and steel, are
129 purchased in large quantities by the public sector. In the
130 United States, nearly one half of all cement, and a fifth of
131 steel, is purchased with tax dollars. These products are
132 critical to our goals of rebuilding America's infrastructure,
133 and we have the opportunity to support building with cleaner,
134 more innovative materials than ever before.

135 Buy Clean brings transparency to the market. It
136 standardizes how to calculate embodied emissions of products
137 so that the private sector and state and local governments
138 can indeed make informed decisions about what they purchase.

139 It also supports federal leadership by requiring federal
140 use of products with a proposed Climate Star label, a
141 voluntary label similar to the popular Energy Star and Water
142 Sense programs.

143 Buy Clean leverages things that are already occurring in
144 the private sector, through environmental product
145 declarations, while seeking to improve data quality, guard
146 against unfair foreign competition, and reward investments in
147 U.S. manufacturing.

148 The CLEAN Future Act's industrial sections are critical

149 to the growth and the retention of U.S. manufacturing jobs,
150 and the promotion of markets for new and innovative products.
151 And the worker and community title is critical to fulfilling
152 our commitment that no one is left behind during this energy
153 transition.

154 I believe these are areas where we should be able to
155 find bipartisan support. I am looking forward to today's
156 testimony, and hope we can work together to improve these
157 sections of the committee's proposal.

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

159

160 *****COMMITTEE INSERT*****

161

162 *Mr. Tonko. With that I now yield to the chair --
163 excuse me, the ranking member -- of the Subcommittee on
164 Environmental and Climate Change, our ranking member, Mr.
165 McKinley, for 5 minutes for his opening statement.

166 Representative McKinley?

167 *Mr. McKinley. Thank you, Mr. Chairman. We are here to
168 examine the CLEAN Future Act, but it reminds me, during the
169 Vietnam War an American general was paraphrased as saying,
170 "We had to destroy the town to save it. We had to destroy
171 the town to save it.'" It reminds me of the motivation
172 behind this proposal.

173 The goal of the Act is to decarbonize the U.S. economy
174 by 2050, have net-zero emissions from power plants by 2035,
175 80 percent by 2030. In so doing, we are going to destroy
176 livelihoods, disrupt families, decimate communities, increase
177 utility bills, threaten the stability of the of the -- of our
178 grid, and we will still experience negative effects of
179 climate change, since the rest of the world isn't following
180 suit.

181 Look, Chairman, we agree we need to work to reduce
182 carbon emissions. But we also need to understand the
183 consequences before we rush into such a punitive action.

184 Let's keep in mind, last year 60 percent of our power
185 came from fossil fuels: coal, gas, and oil. It is
186 reasonable to understand that this total transformation, it

187 may be -- is it reasonable to undertake this total
188 transformation of our electric grid in less than 14 years, or
189 even 9?

190 Look at solar energy. They are predicting -- in their
191 publication this week, they are predicting they are going to
192 quadruple their capacity in solar in the next 10 years. That
193 -- now, make sure we understand, that means they are going
194 from 2.3 percent of the mix to 9 percent. But remember, coal
195 and gas are still 60 percent. According to the utilities we
196 have consulted, decarbonizing our power sector by 2035 and 80
197 percent by 2030 will take a miracle.

198 So, Paul, at what cost, if we increase costs for
199 families with higher utility bills? According to the
200 Institute for Energy Research, \$2,000 per household,
201 annually.

202 It will destroy jobs, not just coal miners and
203 pipeliners, but all the secondary jobs that rely on them:
204 the railroad workers, the barge operators, and machinists,
205 the fabricators. I could go on and on. Where will these
206 workers go? Many of them are making 70, 80, \$100,000.

207 We get -- yes, we get these vague promises about making
208 solar panels, or windmills. About these promises, Terry
209 Sullivan, the president of the Labor International Labor
210 Union, said it is pie-in-the-sky BS -- and he didn't say BS
211 -- about these green jobs being good, middle-class jobs, he

212 said, because they are not.

213 As a result, single-industry towns like Welch, West
214 Virginia; Gillette, Wyoming; Hazard, Kentucky; Cadiz, Ohio,
215 they are going to be crushed. Not to mention we will be left
216 with a grid that is far less reliable and resilient, with
217 more frequent blackouts. Haven't we learned anything from
218 California and Texas about how fragile our grid is?

219 And for what gain? Even if America totally
220 decarbonizes, the rest of the world is still increasing its
221 consumption of fossil fuels. We still have wildfires on the
222 West Coast, droughts and flooding in the Midwest, and
223 hurricanes on the East.

224 Mr. Chairman, we want to work in a bipartisan fashion to
225 address climate change and utilize all-of-the-above energy
226 resources. This committee has demonstrated a history of
227 bipartisanship. And if you will let us, we can do it again.

228 Let's not destroy the village in order to save it.

229 So we have -- on our panel we have Kevin Sunday, from
230 the Pennsylvania Chamber of Commerce who is going to be
231 testifying today. He will explain Pennsylvania's dependence
232 on fossil fuel resources for economic growth and job
233 creation, and discuss the devastation, the impact this
234 legislation will have on his state.

235 I look forward to this conversation today, and I hope
236 that we can work with Frank Pallone and his -- and all of you

237 on this committee, how we can make this a bipartisan bill, or
238 start with something that is bipartisan from the very
239 beginning.

240 [The prepared statement of Mr. McKinley follows:]

241

242 *****COMMITTEE INSERT*****

243

244 *Mr. McKinley. So I thank you, and I yield back my
245 time.

246 *Mr. Tonko. The gentleman yields back. The chair now
247 recognizes the very busy chair of the full committee, Mr.
248 Pallone, for 5 minutes for his opening statement.

249 Chairman Pallone?

250 *The Chairman. Thank you, Chairman Paul Tonko. I like
251 the characterization of busy. Thank you.

252 Today we are holding our first legislative hearing on
253 H.R. 1512, the CLEAN Future Act, which is our comprehensive
254 and ambitious legislation to combat the climate crisis and
255 achieve 100 percent clean economy by no later than 2050.

256 And I just want to say to my friend, Mr. McKinley, the
257 ranking member, look, we obviously want to do things on a
258 bipartisan basis. I will keep repeating that over and over
259 again. But I also want to stress, you know, this is the
260 innovation committee. This is the innovation country. And
261 we can't be left behind.

262 I guess, you know, I know that climate change is viewed,
263 obviously, as an environmental issue, a health issue, but it
264 is also a security issue. And, you know, I constantly say to
265 Mrs. Rodgers that, you know, I agree with her that China is
266 the enemy, that China is the competition. But I am just so
267 afraid that, if we don't innovate, if we don't think about
268 the future, if we don't think of what is going to happen in

269 10 or 20 years, that China is going to eat our lunch, and
270 they are going to take our jobs, and they are going to -- you
271 know, and we are just going to be left behind in this global
272 competition.

273 So, you know, keep a -- keep -- when you say, like my
274 colleague from West Virginia, that, you know, that we have to
275 look at this long term, that is exactly what we are trying to
276 do. We are trying to look at this long term, and be
277 innovative and creative in what we do, because we don't want
278 to be left behind.

279 But anyway, I just wanted to say that this CLEAN Future
280 Act is the product of nearly 30 hearings and countless ideas
281 and recommendations from members. At the heart of our bill
282 is the commitment to achieving net-zero greenhouse gas
283 pollution no later than 2050, with an interim goal of
284 reducing pollution by 50 percent from 2005 levels by 2030.
285 And science is the impetus for our goal, innovation is the
286 impetus.

287 The climate crisis presents one of our greatest
288 challenges, but it also prevents -- presents one of our
289 greatest opportunities. And I want to stress the
290 opportunities through innovation. Today's hearing will
291 examine clean future provisions that seize the opportunity to
292 use climate action to create jobs and support working
293 communities.

294 First we have the federal Buy Clean program, which would
295 steadily reduce emissions from construction materials and
296 products used in federally-funded projects. This innovative
297 program leverages government funding and procurement power to
298 fundamentally transform and strengthen the competitiveness of
299 the U.S. manufacturing sector.

300 And next, and first of its kind, we have the Clean
301 Energy and Sustainability Accelerator, which would help
302 states, communities, and companies transition to a clean
303 economy. Capitalized with \$100 billion, the accelerator will
304 mobilize public and private investment.

305 Finally, the worker and community transition title
306 ensures every worker and community has federal-level support
307 and resources during the nation's transition to a clean
308 economy. The legislation creates a new Office of Energy and
309 Economic Transition in the Executive Office of the President,
310 and this office develops programs that support dislocated
311 workers, and provide financial assistance to local
312 governments. This assistance, coupled with the bill's
313 infrastructure investments, will support economic
314 development.

315 Now, collectively, these three provisions provide new
316 opportunities to decarbonize the industrial sector, but also
317 bolster our economy.

318 And, you know, I also wanted to mention before I close

319 that there are pathways to industrial decarbonization that
320 already exist. We have many technologies and programs
321 available now that, with meaningful funding and wider
322 deployment, would drive industrial sector improvements. Just
323 today EPA announced that 95 manufacturing plants earned
324 Energy Star certification in 2020 for being amongst the most
325 energy-efficient plants in industries like automotive,
326 baking, cement.

327 And I know that the Republicans believe in efficiency,
328 believe in resiliency. They talk to me about it all the
329 time. Energy efficiency is crucial as part of a
330 decarbonization strategy, and this Energy Star industrial
331 program will help us reach our clean economy goals.

332 So I guess what I really want to stress is I believe
333 that these and other climate policies in the CLEAN Future Act
334 will empower America's workers with new, good-paying jobs,
335 and ensure that we do not fall behind in global competition.
336 They will revitalize our communities with the support they
337 need to rebuild from the pandemic, and leave no one behind.
338 So I just think that, you know, we are working on protecting
339 the environment, protecting our health. But at the same
340 time, through innovation, we can get there and create more
341 jobs, and be competitive, and not be left behind.

342 And so, you know, I understand what you are saying, Mr.
343 McKinley.

344 I don't disagree with a lot of the things you say, but
345 let's think of ways that we can do this together, which is, I
346 think, our common goal.

347 [The prepared statement of The Chairman follows:]

348

349 *****COMMITTEE INSERT*****

350

351 *The Chairman. Thank you, Chairman Tonko.

352 *Mr. Tonko. The chair yields back. The chair now
353 recognizes Representative Rodgers, the ranking member of the
354 full committee, for 5 minutes for her opening statement.

355 Representative Rodgers.

356 *Mrs. Rodgers. Thank you. Thank you, Mr. Chairman
357 Tonko and Chairman Pallone. I appreciated what you had to
358 say there. We have shared goals around protecting our
359 health, protecting our environment, leading the world in
360 innovation.

361 Our concern is, first of all, America is leading.
362 America is leading in bringing down carbon emissions today.
363 We are doing that through American innovation, American
364 technology. We are doing it through carbon capture, advanced
365 nuclear. We are leading the world in advanced nuclear
366 technology that is absolutely fundamental to the goals around
367 bringing down carbon emissions.

368 Our concern is that the agenda, as we hear being
369 promoted right now by many Democrats, is one that is focused
370 on solar and wind and batteries that are controlled by China.
371 And so I am very concerned that there is a lack of
372 recognition that 90 percent of the solar panels, 80 percent
373 of the wind machines, 90 percent of the rare-earth minerals,
374 the batteries, are in Asia or in China.

375 And so the future, a clean energy future that is based

376 upon those kind of solutions that are dominated by China, is
377 really a pro-China agenda. It is making us vulnerable. Have
378 we not learned anything through COVID and the concern around
379 supply chains as to the vulnerability and the dependence that
380 we have on China for basic, fundamental needs?

381 So that is -- I think that summarizes why there is a
382 fundamental concern with the direction that is being laid out
383 right now.

384 We -- you know, the Republicans on this committee -- we
385 are ready, and we are ready to work with you to address the
386 climate risk. We must pursue policies that will not
387 undermine our communities or our national security. It means
388 protecting energy affordability, and reliability, and
389 building a stronger economy.

390 We should also work together to help the nation confront
391 all future risk. We should preserve what is best for our
392 nation, our communities, our families, and the freedom and
393 dignity of workers. This is the path to securing a cleaner
394 energy future. You can achieve a clean future by relying
395 upon free enterprise and private initiative. This will
396 unleash innovation and transform how we make and do things
397 with massive benefits for our society. It is how America has
398 led the world in lifting people out of poverty, and
399 empowering people to build better lives.

400 America will win the future by building on our assets

401 and our strengths. That includes our abundant resources,
402 which helps us preserve and strengthen our strategic
403 relationships to confront the national security challenges.
404 This is the practical path that Republicans support in our
405 legislative work to update permitting and reduce regulations
406 in order to deploy new, cleaner technologies more quickly and
407 at a lower cost. This path rejects one-size-fits-all central
408 planning -- as experience tells us, is suitable only for
409 special interest and federal regulators.

410 So today we are talking about the CLEAN Future Act. It
411 is a 1,000-page bill, and it seeks to transform the nation's
412 economy, its energy systems, the way people live on a
413 timeframe and at a scale that far surpasses anything
414 practical. For example, energy technology expert Mark Mills
415 testified before this panel last month on the scale of this
416 transformation, if it were possible just for the power
417 sector. He said this about meeting the goals of 2035: "It
418 would require a continuous construction program at least 600
419 percent bigger than any single peak year for utility
420 construction that has occurred in the U.S., China, or Germany
421 over the past half century.'"

422 Given technological and market realities, this bill
423 would increase American reliance on China, and do little to
424 reduce global emissions or improve America's competitive
425 edge. This is not the policy outcome we want. But we will

426 be on this path if we rush down the top-down, regulatory
427 controls over our power, transportation, and industrial
428 sectors.

429 The problem is, at this pace, it is a rush. And it
430 makes no allowance for technological readiness. Carbon
431 capture for natural gas or industrial processes are tough.
432 It is very tough. And it is chilling. It is a chilling
433 impact for energy workers today in America.

434 Let's reject the central planning. Let's free our
435 innovators by reducing regulations.

436 [The prepared statement of Mrs. Rodgers follows:]

437

438 *****COMMITTEE INSERT*****

439

440 *Mrs. Rodgers. And with that, I yield back, Mr.
441 Chairman.

442 *Mr. Tonko. Thank you. The gentlewoman yields back.

443 The chair would like to remind members that, pursuant to
444 committee rules, all members' written statements, opening
445 statements, shall be made part of the record.

446 I now will introduce the witnesses that we have for
447 today's hearing.

448 First, Dr. Rebecca Dell, Ph.D., director of the industry
449 program at Climate Works Foundation.

450 Mr. Bob Perciasepe, president, Center of [sic] Climate
451 and Energy Solutions, C2ES, on behalf of the Renewable
452 Thermal Collaborative.

453 Mr. Kevin Sunday, director of government affairs,
454 Pennsylvania Chamber of Business and Industry.

455 And finally, Mr. Jason Walsh, executive director of the
456 BlueGreen Alliance.

457 At this time I recognize Dr. Dell for 5 minutes to
458 provide an opening statement.

459 And again, welcome, Dr. Dell.

460

461 STATEMENT OF REBECCA DELL, PH.D., DIRECTOR, INDUSTRY PROGRAM,
462 CLIMATEWORKS FOUNDATION; BOB PERCIASEPE, PRESIDENT, CENTER
463 FOR CLIMATE AND ENERGY SOLUTION (C2ES), ON BEHALF OF THE
464 RENEWABLE THERMAL COLLABORATIVE; KEVIN SUNDAY, DIRECTOR OF
465 GOVERNMENT AFFAIRS, PENNSYLVANIA CHAMBER OF BUSINESS AND
466 INDUSTRY; AND JASON WALSH, EXECUTIVE DIRECTOR, BLUEGREEN
467 ALLIANCE

468

469 STATEMENT OF REBECCA DELL

470

471 *Ms. Dell. Thank you very much. Good morning, Mr.
472 Chairman and Ranking Member, and thank you to the entire
473 subcommittee for the invitation to testify on the CLEAN
474 Future Act.

475 Today I will address the importance of Buy Clean for
476 rebuilding our infrastructure, investing in American
477 manufacturing, and addressing the climate crisis.

478 As you all know, this bill establishes a Buy Clean
479 program to steadily reduce greenhouse gas emissions from
480 federal construction. I will explain what Buy Clean is, and
481 why it is important for addressing bipartisan concerns like
482 infrastructure and national competitiveness. I will mention
483 -- and I will mention some complementary actions that
484 Congress can take to accelerate progress in American
485 manufacturing.

486 We all know that we need a major national infrastructure
487 investment. The American Society of Civil Engineers recently
488 gave our infrastructure an overall grade of C-. Climate
489 change will only accelerate this need. So why should we
490 support by Buy Clean?

491 First, Buy Clean is important because it targets the
492 most important sectors. As Chairman Pallone reminded us,
493 this bill sets a national target of 50 percent reduction of
494 greenhouse gas emissions by 2030 and 100 percent by 2050. We
495 simply cannot achieve these goals without dramatically
496 reducing industrial emissions, which account for a quarter or
497 more of national emissions. These emissions are heavily
498 concentrated in a small number [inaudible] making building
499 materials, like steel and cement. The government is the
500 largest consumer of building materials, buying nearly half of
501 cement and a fifth of steel. Buy Clean policies require or
502 incentivize the government to buy building materials made
503 with cleaner processes.

504 The environmental stakes are not small. Without Buy
505 Clean, the infrastructure bill passed through the House last
506 year could lead to an additional 200 million tons of CO2
507 emissions from making the associated building materials. As
508 you consider a major infrastructure reinvestment as part of
509 the economic recovery from COVID-19, it is more urgent than
510 ever that we modernize our infrastructure in a way that does

511 not contribute to the climate crisis.

512 Second, Buy Clean is powerful because it uses government
513 leverage to increase innovation and competitiveness in
514 manufacturing. Countries and companies around the globe have
515 realized that climate-safe manufacturing and construction
516 practices are essential for their long-term competitiveness.
517 We are significantly behind many other large economies in
518 Europe and Asia in this respect.

519 Buy Clean offers companies that want to invest in clean
520 manufacturing the opportunity to profit by it. It is not a
521 burden on American manufacturing, but an investment in high-
522 quality jobs. It prevents foreign producers from getting
523 around the rules, and domestic producers would have the same
524 advantages they always have had, like Buy America
525 requirements.

526 The best part is that Buy Clean is affordable. Cement
527 is responsible for the largest share of emissions in public
528 construction. But it only accounts for about one percent of
529 the cost of projects. Because it is such a small portion of
530 the total cost, even if clean cement is more expensive than
531 conventional cement in the near term, it won't significantly
532 change the overall cost of infrastructure.

533 Finally, Buy Clean -- in order for Buy Clean to be
534 successful, it needs leadership and innovation investment.
535 Buy Clean policies should be complemented by dramatically

536 increased investments in industrial innovation and
537 commercialization of critical industrial technologies. This
538 is long overdue.

539 Manufacturing and construction generate more employment
540 and almost as much GDP as the health care industry. Yet
541 health care is supported by the innovation activities of NIH,
542 with an annual budget of \$42 billion, or 5,000 percent of
543 what the government spends on industrial innovation.
544 Congress should fund programs to commercialize critical new
545 industrial technologies at a much larger scale than
546 currently.

547 To succeed, this entire agenda needs high-level
548 leadership. Currently, the highest-ranking person in the
549 federal government whose job it is to advance the future of
550 American manufacturing has the rank of acting office
551 director. In order for both innovation investments and Buy
552 Clean programs to be successful, Congress should create an
553 additional assistant secretary of energy for manufacturing
554 and industry, as recommended in this bill.

555 In conclusion, Buy Clean supports American innovation
556 and competitiveness, it reduces greenhouse gases and local
557 pollution, and it does not significantly increase costs. We
558 should use Buy Clean, supported by expanded and elevated
559 investments in industrial innovation, to affordably address
560 the climate crisis and increase the competitiveness of

561 American manufacturing.

562 Thank you very much, and I look forward to answering
563 your questions.

564 [The prepared statement of Ms. Dell follows:]

565

566 *****COMMITTEE INSERT*****

567

568 *Mr. Tonko. Thank you very much, Dr. Dell. And now we
569 will move to Mr. Perciasepe.

570 You are recognized, sir, for 5 minutes, please.

571

572 STATEMENT OF BOB PERCIASEPE

573

574 *Mr. Perciasepe. Okay, thank you. Thank you, Mr.
575 Chairman and Ranking Member McKinley. Thank you all for
576 inviting me today. I am here to testify, as you mentioned,
577 on behalf of the Renewable Thermal Collaborative.

578 I am the president of Center for Climate Energy
579 Solutions. And before joining the Center 7 years ago, I was
580 the deputy administrator of the Environmental Protection
581 Agency.

582 The Renewable Thermal Collaborative is a global
583 coalition of companies and institutions committed to scaling-
584 up renewable heating and cooling at their facilities, thus
585 reducing carbon emissions. The collaborative was founded in
586 2017, and it is facilitated by C2ES, the David Gardiner &
587 Associates, and the World Wildlife Fund.

588 The industrial sector is very challenging to decarbonize
589 due to its very tremendous -- its tremendous amount of
590 diversity, and its reliance on a large quantity of energy and
591 heat. And the fundamental nature of many of the core
592 manufacturing processes also produce greenhouse gases.
593 Industrial emissions account for about 29 percent of the
594 emissions in the United States, and they are projected to
595 grow over the next decade under our current situation, as the
596 -- and become, potentially by 2030, the largest source of

597 emissions in the United States.

598 The goals of the Thermal Collaborative are to create a
599 community of corporate buyers of technology, of service to
600 establish policy support, and to put us on a path so that the
601 industrial sector can reduce its thermal emissions by 30
602 percent by 2030, with a goal of full sector decarbonization
603 by the middle of the century, in 2050.

604 Policy, and the use of policy, has been an underutilized
605 resource for achieving decarbonization in the industrial
606 sector. And the Thermal Collaborative recently published a
607 report which surveyed leading policies across the world, in
608 Europe and in the United States, on advancing low-carbon
609 technologies. We explored a number of policy approaches to
610 catalyze a wide variety of renewable thermal technologies,
611 including geothermal, beneficial electrification, green
612 hydrogen, solar thermal technologies, renewable natural gas,
613 biomass, and biogas, and others.

614 The -- advancing the low-carbon solutions -- the level
615 of policies at the state level are often targeted to specific
616 technologies, or specific companies, or specific corporate
617 and business sectors, and they tend to be fragmented. At the
618 federal level, if you used it as an example of what has been
619 done in the power sector, the production tax credit and the
620 investment tax credit has spurred billions of dollars of
621 investment, and reduced the cost of renewable energy in the

622 power sector.

623 We identified a number of policies that could really
624 help in the industrial sector: expanded research and
625 development; demonstration and deployment; grant programs;
626 and a national financial facility that could provide grants,
627 as well as crucial financing; deployment initiatives;
628 procurement, as you just heard from Dr. Dell; and renewable
629 thermal portfolio standards that could help.

630 The CLEAN Future Act is on track on a number of these
631 points, and I will mention three things in particular.

632 The Clean Energy Manufacturing Grant Program would
633 support a range of zero and low-emitting technologies,
634 including some of the technologies mentioned in the opening
635 comments already today. The carbon -- the -- and there is a
636 special attention to the carbon and energy-intensive
637 industries.

638 The Carbon Mitigation Fund would support beneficial
639 electrification, and could be benefited by expanding the
640 eligibility to other low-carbon renewable thermal
641 technologies that meet a robust sustainability criteria.

642 And the third one I will mention is the Clean Energy
643 Sustainability Accelerator. In many ways I look at this as
644 the accelerator of innovation. You have lots of innovation
645 taking place already, as many have already mentioned. But
646 what we have here is a financial facility that will help

647 accelerate the deployment of those innovations as they occur,
648 getting to that next step of implementation and deployment,
649 which is very important. And it has a wide variety of
650 flexibilities enabled to -- to enable it to accomplish those
651 goals.

652 Let me just say, in conclusion here, that fragmented
653 policies that apply only to certain locations or certain
654 technologies or certain kinds of business classes will result
655 in uneven approaches. Federally-based financial incentives,
656 such as are envisioned in the CLEAN Futures [sic] Act, would
657 really help accelerate the innovation that we need in the
658 industrial sector.

659 And I will stop with that, and look forward to your
660 questions. Thank you, Mr. Chairman and Ranking Member.

661 [The prepared statement of Mr. Perciasepe follows:]

662

663 *****COMMITTEE INSERT*****

664

665 *Mr. Tonko. Well, thank you, Mr. Perciasepe, for your
666 input. And now we will move to Mr. Sunday.

667 And again, welcome, Mr. Sunday. It is good to have you
668 joining us, and you are recognized for 5 minutes, please.

669

670 STATEMENT OF KEVIN SUNDAY

671

672 *Mr. Sunday. Thank you, sir, and good morning, Chairman
673 Tonko, Ranking Member McKinley, and members of the committee.
674 Thank you for the honor and privilege to appear before you
675 today to represent the Pennsylvania Chamber of Business and
676 Industry.

677 We are the largest business advocacy organization in the
678 state of Pennsylvania, which itself is the number-2 state for
679 natural gas development, energy production, and nuclear
680 power. We are the biggest power producer in the 13-state PJM
681 grid, and we are also a leader in a number of manufacturing
682 segments.

683 My testimony talks about how Pennsylvania's energy and
684 industrial base have helped put this country in the catbird
685 seat for sustainable economic growth. And I re-emphasize
686 that our workers and companies are up to the task in meeting
687 the many challenges of the 21st century. Let me make a few
688 summary points in my testimony.

689 First, the development of Marcellus Shale has led to
690 massive investment in the new pipeline, energy, and
691 manufacturing infrastructure. And projects like the Shell
692 petrochemical facility in southwest Pennsylvania are totally
693 changing the course of a region that was left behind a
694 generation ago.

695 We are seeing natural gas and renewable resources being
696 paired together to develop resilient microgrid projects at
697 critical infrastructures like airports and the Navy Yard in
698 Philadelphia. Combined heat and power projects are helping
699 universities, hospital systems, and manufacturers in pulp and
700 paper and food product segments manage costs and improve
701 sustainability. And manufacturers in Pennsylvania are
702 underway with a project to use carbon capture and natural gas
703 liquids to sustainably produce ammonia, hydrogen, and
704 fertilizer.

705 And at the same time, air quality in our state is
706 improving dramatically. We are in statewide attainment, or
707 very close to it, for all national ambient air quality
708 standards. Since 2005 no state has reduced CO2 emissions
709 more than Pennsylvania, but 1. And, as EPA officials
710 recently noted, the nationwide 2030 goals of the Obama
711 Administration's Clean Power Plan have already been achieved,
712 due to market forces.

713 In part because of Pennsylvania's resource base to help
714 this country reduce emissions and send power prices in our
715 regional grid down to generational lows, no country has the
716 story to tell like that of the United States when it comes to
717 reducing costs and emissions while growing the economy. The
718 United States has lapped the European Union in growth over
719 the past decade-and-a-half, while reducing emissions more.

720 And our energy prices are much lower.

721 And so, while it is reasonable to discuss setting long-
722 term goals, we have real challenges today, and we need smart
723 policy that will unlock further investment and environmental
724 gains. A more predictable, rational, and flexible air
725 quality permit process, including reforms to new-source
726 review, will allow for more investment in domestic
727 facilities, including carbon capture, and a stronger domestic
728 manufacturing base, instead of production in other countries
729 who don't share our country's commitment to stewardship.

730 In addition, whether it is a bridge, or port, or an
731 energy infrastructure component, it takes entirely long [sic]
732 to build any new infrastructure in this country if that
733 project is touched by the National Environmental Policy Act.
734 And it is imperative we streamline the federal decision-
735 making process if America is going to have the infrastructure
736 to compete.

737 The pandemic and recent energy crisis in multiple states
738 have shown the need for smart, durable, bipartisan policy
739 that accommodates resilient energy resources and that allows
740 manufacturers to quickly retool. It is vital we leverage our
741 human capital and knowledge bases in a host of traditional
742 industries to meet the challenges of tomorrow, especially
743 given the economic data showing the only rural regions of the
744 country that are keeping up, in terms of productivity and

745 wage growth, are those with natural resource economies.

746 And moreover, energy security in the coming decades will
747 require policy that accommodates expanded mining for critical
748 minerals, efficient build-out of energy and
749 telecommunications infrastructure, and continued investment
750 into exploration and production of hydrocarbons and nuclear
751 power.

752 Finally, given our nation's environmental requirements
753 are much more stringent than other countries', it is
754 imperative that regulatory policy doesn't end up offshoring
755 key industries like refining, steel, cement, concrete,
756 aggregates, and timber, all resources that we are going to
757 need, regardless of what the energy mix looks like.

758 In closing, because our state's success has helped the
759 United States keep energy costs lower than nearly every other
760 developed nation while outpacing them in growth, I hope you
761 consider our contributions and assets as you work towards
762 producing durable, bipartisan, effective policy that keeps
763 the United States in a flagship position in this increasingly
764 challenging and dynamic global marketplace.

765 Again, thank you for the opportunity to appear before
766 you this morning, and I am happy to take any questions you
767 may have, and look forward to the discussion.

768 Thank you.

769

770 [The prepared statement of Mr. Sunday follows:]

771

772 *****COMMITTEE INSERT*****

773

774 *Mr. Tonko. Thank you, Mr. Sunday, for your
775 contribution to today's hearing.

776 And finally, we will move to Mr. Walsh.

777 Mr. Walsh, you are recognized for 5 minutes, and
778 welcome.

779

780 STATEMENT OF JASON WALSH

781

782 *Mr. Walsh. Thank you, Chairman Tonko and Ranking
783 Member McKinley, distinguished members of the subcommittee.
784 My name is Jason Walsh. I am the executive director of the
785 BlueGreen Alliance. On behalf of my organization, our labor
786 and environmental partners, and the millions of members and
787 supporters they represent, I want to thank you for convening
788 this hearing today regarding the CLEAN Future Act and how it
789 can help us rebuild our economy, while creating good jobs,
790 reducing pollution, and revitalizing communities.

791 Congress has taken historic action to address the COVID-
792 driven health and economic crisis, yet significant challenges
793 facing our nation remain. We went into this pandemic with
794 three ongoing and interconnected crises: income inequality,
795 racial injustice, and climate change, each of which
796 exacerbates the other. Legislation should tackle these
797 crises at the same time with intersecting solutions. And the
798 CLEAN Future Act is one such piece of legislation.

799 The Act will help revitalize American manufacturing,
800 support workers and communities impacted by our nation's
801 energy transition, and invest in clean infrastructure to
802 create good, accessible union jobs.

803 First, the CLEAN Future Act includes an important focus
804 on the industrial sector. As an integral part of a strategy

805 to address the climate emergency head on, we have the
806 opportunity to modernize and transform our industrial base to
807 make it the cleanest and most competitive in the world,
808 creating a new generation of good, union manufacturing jobs,
809 making clean technology, and making all products in cleaner
810 ways.

811 The CLEAN Future Act includes a number of key provisions
812 aimed at this outlined in my written testimony. What I will
813 flag today is the Buy Clean provisions in the bill, which
814 ensure that federal procurement supports cleaner domestic
815 manufacturing of the materials that go into our public
816 infrastructure projects.

817 I want to note, in particular, the establishment of an
818 interagency transparency and disclosure program to enhance
819 the quality and availability of data used to calculate
820 emissions of eligible materials, and strengthen our
821 understanding of the competitiveness of U.S. manufacturers
822 across industries. We believe this is an important and
823 necessary first step, and, coupled with robust reinvestment
824 in domestic manufacturing, can help ensure that the United
825 States leads the world in manufacturing the technologies and
826 products of the future in an increasingly carbon-constrained
827 global economy.

828 The CLEAN Future Act is a great first step, but we urge
829 additional enhanced loan and grant funding for wide-scale

830 deployment of emissions-reducing processes across energy-
831 intensive manufacturing subsectors in America, as well as to
832 fill critical supply gaps in clean technology and material
833 supply chains. These policies will help upgrade and
834 modernize the U.S. industrial base, and drive a new
835 generation of industrial development that rebuilds good
836 American jobs and is clean, safe, and equitable for workers
837 and communities alike.

838 As we work to rebuild our economy while tackling the
839 underlying crises of climate change and economic and racial
840 inequality, we must prioritize equitable rebuilding and
841 investments in those workers and communities most in need,
842 including those impacted by changes in our nation's energy
843 economy. America's energy transition is well underway, but a
844 transition that is fair for workers and communities isn't
845 something that will happen organically.

846 We need a broad, holistic, government-wide response.
847 This response must keep workers and communities whole,
848 revitalize and diversify local economies, and address
849 inequities, while ensuring the retention and creation of good
850 paying jobs. And we should be clear that the best approach
851 to energy transition among workers and communities and
852 sectors not already impacted is one that prevents economic
853 disruption and employment loss before it happens.

854 BGA strongly supports several structural reforms

855 established in the CLEAN Future Act to realize these goals.
856 We believe these reforms must go hand in hand with additional
857 policies outlined in my written testimony, such as the
858 establishment of an interagency grant program; a broad system
859 of support for workers; the reclamation of damaged lands and
860 waters; and bankruptcy reform.

861 Lastly, the CLEAN Future Act includes a number of
862 provisions aimed at ensuring that critical infrastructure
863 investments made across the bill will boost our economy and
864 create jobs, while simultaneously reducing pollution,
865 combating climate change, and strengthening our communities.
866 Thanks to key, cross-cutting Buy America, prevailing wage,
867 project labor agreement, and community benefit provisions in
868 the bill, these investments will deliver quality, family-
869 sustaining jobs, and accessible pathways into those jobs for
870 all Americans.

871 In closing we want to thank the committee for beginning
872 this conversation, and look forward to providing additional
873 feedback and working with you as we move forward on this bill
874 and your broader agenda for the 117th Congress.

875 Thank you again for the opportunity to testify today.

876 [The prepared statement of Mr. Walsh follows:]

877

878 *****COMMITTEE INSERT*****

879

880 *Mr. Tonko. You are most welcome, and thank you, Mr.
881 Walsh, and thank you to all of our witnesses for the input
882 that is tremendously valuable to the discussion of this phase
883 of activity in the CLEAN Future Act.

884 So with that we will now move to member questions. I
885 will start by recognizing myself for 5 minutes.

886 Addressing the needs of people and communities that may
887 be disrupted by the energy transition, which is already
888 underway, isn't going to be easy. We should be honest about
889 that. But our current course of action is to do very little
890 in an uncoordinated manner. We need a range of policies and
891 investments, including economic development, workforce
892 development, environmental remediation, and public benefits
893 to ensure fairness for workers and communities in transition.

894 So, Mr. Walsh, let's go to you. How can we most
895 effectively deploy this mix of tools in a coordinated way, so
896 that policies are implemented as efficiently as possible?

897 And can we leverage existing state and federal programs?

898 *Mr. Walsh. Thank you, Congressman. There are several
899 provisions providing support for workers and communities in
900 title 10, which I think are foundational and necessary to
901 achieve the kind of fair and equitable transition that you
902 are talking about, and make it one of sufficient scale and
903 ambition.

904 So this includes the establishment of an Office of

905 Energy and Economic Transition to the Executive Office of the
906 President to coordinate and align activities across the
907 resources of the Federal Government. You mentioned previous
908 precedents and examples like the Office of National Drug
909 Control Policy that we have placed within the EOP. We are
910 going to need that kind of leadership and coordination at the
911 White House level to really drive this transition in a fair
912 and equitable way.

913 There are other provisions, like an interagency task
914 force and stakeholder advisory committee, to enhance
915 coordination of relevant programs. There is a program to
916 provide financial assistance to local governments that have
917 lost significant amounts of revenue due to permanent facility
918 closures, and assist local governments.

919 And there is also a program within title 10 to fund 1-
920 stop community-based organizations that can help local
921 communities access federal funds and other kinds of funds,
922 and provide technical assistance to those communities, as
923 they grapple with some of these challenges. So I think title
924 10 is a really good first start.

925 *Mr. Tonko. Thank you. And having a skilled workforce
926 is a community asset. Having good infrastructure is a
927 community asset. Mr. Walsh, as Congress thinks about
928 infrastructure or economic recovery packages, how can these
929 things be leveraged or improved upon to put potentially

930 affected communities in a better position to deal with local
931 economic disruption?

932 *Mr. Walsh. Well, let's talk about infrastructure. I
933 mean, I think there are a number of infrastructure
934 investments that are badly needed in energy transition
935 communities. Let's start with coal communities, right, where
936 investments in water infrastructure, in broadband, in the
937 reclamation of abandoned mine lands and waters are all
938 crucial, not just for community health, but are also
939 prerequisites for economic development and economic
940 diversification opportunities.

941 We are also going to need a fuller package of supports
942 for workers who are making the transition. I realize that is
943 outside the jurisdiction of this committee, but there are a
944 number of ideas that we have and would be happy to talk with
945 members of the committee about.

946 *Mr. Tonko. Thank you. Thank you very much.

947 Dr. Dell, your Build Clean report makes it clean [sic]
948 that we need a holistic approach with several types of
949 industrial policies to achieve our goals for the sector. And
950 we have tried to cover at least some of those ideas in the
951 CLEAN Future Act.

952 But today United States policy to support manufacturing
953 pales in comparison to our foreign competitors like Germany
954 and like China. Do you have advice on how we should elevate

955 these policies as part of both a national economic strategy
956 and a climate strategy?

957 *Ms. Dell. Thank you, Chairman Tonko, for -- that is a
958 really important question.

959 For a long time, our manufacturing policy in the United
960 States has been quite fragmented, and often pushed down to
961 relatively junior levels of the federal bureaucracy, which
962 makes it very difficult for us to have coherent policy that
963 ties together all of the important issues that have already
964 come up, including workforce development, infrastructure,
965 creation of markets for key new opportunity areas,
966 investments in innovation, all of these.

967 And so what we need are -- is greater focus and
968 attention, and higher-level leadership across multiple parts
969 of the Federal Government. The Department of Energy is a
970 very important part, from the -- on the innovation side. But
971 a holistic approach would also require the Environmental
972 Protection Agency, the Department of Commerce, the Department
973 of the Treasury, and many other parts of the government,
974 which would have to be coordinated from -- at the level of
975 the White House.

976 *Mr. Tonko. Thank you very much. And I certainly think
977 it is important that these policies are built on a
978 transparent, standardized, and high-quality data foundation.
979 So thank you so much for your input.

980 *Ms. Dell. Thank you.

981 *Mr. Tonko. I have exhausted my 5 minutes, and so now
982 will recognize -- I will recognize Representative McKinley,
983 subcommittee ranking member, for 5 minutes, sir, to ask
984 questions.

985 Mr. McKinley?

986 *Mr. McKinley. Thank you, Chairman. And I just want to
987 remind the committee that Kevin Sunday's wife is about to
988 deliver a baby, his second son. So we all have to appreciate
989 the attention that we are getting, his attention, on this
990 very important day.

991 But let me direct some questions to you to see how alert
992 you, Kevin. So the first is, are you aware that the
993 International Energy Agency and others have stated that it is
994 virtually impossible to reach net-zero carbon emissions
995 without carbon capture?

996 *Mr. Sunday. Yes, sir.

997 *Mr. McKinley. Okay. And so, to capture carbon, won't
998 power plants and industrial facilities need a new source
999 review permit to add this equipment?

1000 *Mr. Sunday. It is fact-specific if they will need --
1001 if NSR would apply, but they are going to at least need to go
1002 through the lengthy determination process.

1003 *Mr. McKinley. Thank you. And since NSR is a complex
1004 and convoluted process, EPA has issued more than 690

1005 guidelines and policy documents on it over the recent years.
1006 Would you agree that this process discourages implementing
1007 carbon capture and other clean energy technologies?

1008 *Mr. Sunday. Yes, I would agree with that.

1009 *Mr. McKinley. Okay. So in your testimony, you said we
1010 need -- therefore, we need to reform NSR. My question is, is
1011 there NSR reform in this package?

1012 *Mr. Sunday. Not based on my reading of the bill, no.

1013 *Mr. McKinley. Thank you. So why should we expect
1014 anyone across this country is going to do carbon capture?

1015 So when you factor in it takes 2 to 3 years to get a
1016 permit, an NSR permit that costs millions of dollars to
1017 achieve [inaudible] 2 or 3 years without litigation, and then
1018 add the 5 to 6 years for the engineering design, the
1019 permitting by the states, and the installation of this
1020 equipment, we are talking about -- it is conceivable that a
1021 utility company or manufacturer -- it could take 7 to 10
1022 years to install carbon capture.

1023 So I am back to you, Sunday, is it reasonable then to
1024 assume that we can expect an 80 percent reduction in CO2
1025 emissions by 2030?

1026 *Mr. Sunday. No, sir, I believe that would be a very
1027 tall order without further reforms.

1028 *Mr. McKinley. It would. And what about a 100 percent
1029 reduction in CO2 emissions by 2035 in power plants?

1030 *Mr. Sunday. No, same thing.

1031 *Mr. McKinley. Okay. So let me change just --
1032 direction just a little bit on this, and go to plastics,
1033 because that is part of it, under section 902.

1034 During the pandemic, do you recall the shortage of
1035 plastic masks, gloves, shields, and gowns that are PPE?

1036 *Mr. Sunday. Yes, yes.

1037 *Mr. McKinley. And America was -- it was painful and
1038 life-threatening for our health care workers to not have
1039 access to PPE.

1040 So if the current manufacturers were unable to meet the
1041 demand last year and the year before, why -- then wouldn't it
1042 make more sense to make more facilities, have more facilities
1043 to produce more masks, gowns, shields, and gowns [sic]?

1044 *Mr. Sunday. Yes, we should have a streamlined permit
1045 process to accommodate that type of dynamic market.

1046 *Mr. McKinley. So it is fundamental here. Now, so you
1047 turn to section 902 of this bill, it withholds permits, new
1048 permits, for facilities that would produce plastics or the
1049 raw materials to use to produce plastics. Could this
1050 section, therefore, prevent the opening of the new
1051 petrochemical complex north of Pittsburgh and Monaca,
1052 Pennsylvania, or the one being planned in eastern Ohio?

1053 *Mr. Sunday. Yes, I believe that language would
1054 jeopardize future investment into those types of facilities.

1055 *Mr. McKinley. So seriously, we just experienced a
1056 shortage of PPE, and this bill calls for more restrictions on
1057 the plastics industry. Mr. Sunday, am I missing something?

1058 *Mr. Sunday. No, sir. And beyond PPE, we use plastics
1059 in automotive devices, weatherizing homes, recreational
1060 products like canoes and backpacks. We actually use some
1061 petrochemicals in, not just storing and transporting the
1062 vaccine, but the component itself, to capture the messenger
1063 RNA so it can cross the bloodstream. These are vital, life-
1064 sustaining products and medical devices that we rely on, as
1065 you mentioned.

1066 Just to be clear, my wife is not going into labor, like,
1067 at this moment. We are a couple of days away from that, so I
1068 am not being negligent by any means, but I appreciate the
1069 well wishes there, and the opportunity to speak before you
1070 this morning.

1071 *Mr. McKinley. Well, thank you again, Mr. Sunday. I
1072 have got to say it is just bizarre that, in a bill of this
1073 importance, that there is something in there under section
1074 902. I just hope we look at that very seriously, the impact
1075 it could have on us.

1076 And I yield back my time.

1077 *Mr. Tonko. The gentleman yields back. And Mr. Sunday,
1078 to you and your wife, all the best on the pending new
1079 arrival.

1080 The chair now recognizes Representative Pallone, full
1081 committee chair.

1082 Chairman Pallone, you are recognized for 5 minutes,
1083 please.

1084 *The Chairman. Thank you, Chairman Tonko. I wanted to
1085 talk about decarbonizing the industrial sector. In the CLEAN
1086 Future Act we have provisions that will help drive down
1087 emissions in the industrial sector, but at the same time
1088 rebuilding the country's infrastructure and economy. So let
1089 me start with Ms. Dell.

1090 How can we most effectively use a federal Buy Clean
1091 program, which we have in the CLEAN Future Act, to ensure a
1092 new infrastructure is developed in a climate-friendly manner?

1093 And why is that crucial that we do that?

1094 *Ms. Dell. Thank you so much for the question. I think
1095 that the most important reasons why we should invest in a
1096 federal Buy Clean program are, one, that the Federal
1097 Government has enormous leverage over emissions, over
1098 greenhouse gas emissions, so this is how we actually reduce
1099 emissions; and second, this allows us to make a major
1100 investment in critical manufacturing sectors.

1101 The members of the committee may or may not be aware
1102 that, in the last 6 months, all five of the largest steel
1103 companies in the world have committed to bring their
1104 emissions to net-zero by 2050. These are companies in China,

1105 Japan, South Korea, and Europe. No American steel company
1106 has made that commitment. So around the world, companies in
1107 these critical industries are realizing that their future
1108 competitiveness, their long-term success, is tied to their
1109 ability to manufacture in a climate-safe way. And I am very
1110 concerned that this is a fast train leaving the station, and
1111 American firms are waiting on the platform.

1112 And so, what Buy Clean will do is provide market
1113 conditions that allow companies to make a profit by investing
1114 in their long-term competitiveness with clean manufacturing,
1115 and make a profit by investing in the good jobs that come
1116 with that.

1117 *The Chairman. Thank you. I want to ask Mr. Walsh the
1118 same question.

1119 How can we most effectively use a federal Buy Clean
1120 program to ensure new infrastructure is developed in a
1121 climate-friendly manner?

1122 But if you could just answer in a minute, because I have
1123 a question for Mr. Perciasepe, too, that I would like to get
1124 to. Mr. Walsh?

1125 *Mr. Walsh. Yes, I mean, I will echo Rebecca's
1126 statements. It is incredibly important that we create
1127 markets, right, for producing some of these products in
1128 lesser-emission ways.

1129 We work closely with a number of industry leaders in the

1130 iron and steel industries and the cement industries, and the
1131 only thing, really, standing in their way is clear demand
1132 signals that the Federal Government can be a market leader in
1133 producing.

1134 I do think the emphasis in title 5 on other forms of
1135 investment in clean technology manufacturing are also really
1136 important. I think we are particularly interested in and
1137 excited by the Clean Energy Manufacturing Grant Program,
1138 which also invests in the kind of supply chains that we are
1139 going to need as we make this transformation.

1140 *The Chairman. Well, thank you.

1141 So, we also need additional policies and incentives to
1142 reach net-zero greenhouse gas emissions in the industrial
1143 sector. And to that end the Renewable Thermal Collaborative
1144 recently released a suite of policy recommendations for
1145 Congress to consider. So, Mr. Perciasepe, can I ask you, how
1146 could we use existing laws and policies to quickly curb
1147 greenhouse gas emissions from the industrial sector?

1148 And hi, how are you doing, by the way?

1149 *Mr. Perciasepe. Hello. It is great to see all of you,
1150 really.

1151 Well, there is -- there are plenty of existing policies
1152 in the Federal Government that are designed to provide
1153 technical assistance to or advice to many different
1154 manufacturers: the advanced manufacturing program at the

1155 Department of Energy, and even some of the technical
1156 assistance programs at EPA.

1157 But what the Clean Futures [sic] Act does is take --
1158 harnesses some of that, and expands on that. And I think
1159 that is a really important part, Mr. Chairman, for us to
1160 accelerate those activities that the Federal Government is
1161 able to do.

1162 We have a fragmented system. And I think Dr. Dell
1163 mentioned that, that you don't have a cohesive component in
1164 the Federal Government looking at this. So there is an
1165 ability for the government to coordinate that, even without
1166 legislation, and they should do that.

1167 *The Chairman. Thank you so much.

1168 Thank you, Chairman Tonko.

1169 *Mr. Tonko. You are welcome.

1170 The gentleman, the chair, yields back. The chair now
1171 recognizes Representative Rodgers, full committee ranking
1172 member, for 5 minutes to ask questions.

1173 Representative Rodgers, please?

1174 *Mrs. Rodgers. Thank you, Mr. Chairman, and thank you,
1175 everyone, for joining us here today.

1176 The Republican policies to address climate change and
1177 the risks that face us are driven by an appreciation for the
1178 beneficial creations of free enterprise, capitalism, private
1179 initiative, versus the stifling role of federal regulatory

1180 control and central planning.

1181 Innovation doesn't come from the Federal Government. It
1182 comes from the ideas in the garages and in the kitchens of
1183 people all over this country. And businesses and innovators
1184 should build and deploy clean technologies that take
1185 advantage of the abundant, affordable energy that we enjoy
1186 today, as Americans. It is a competitive advantage that I am
1187 concerned will be lost through legislation like is before
1188 this committee today.

1189 It is also so important to our national security, which
1190 is why we seek the regulatory and the permitting reforms in
1191 the package that we put together.

1192 You know, I was -- when I was elected to Congress, it
1193 was interesting. The U.S. was very concerned about the
1194 rising cost of natural gas. We were focused on building more
1195 import facilities in order to meet the energy needs in our
1196 country.

1197 And then, soon after that, 11 years ago now, in 2009,
1198 Waxman-Markey, cap and trade, passed the House. And at that
1199 time, nobody accounted for the American shale revolution.
1200 Private companies have taken the technological ideas from the
1201 labs, and tested them, and improved them on their own dime,
1202 and really took the federal planners by surprise, creating
1203 tremendous new economic and security benefits, while reducing
1204 emissions.

1205 Mr. Sunday, you have seen the benefits of this energy
1206 renaissance. Given today's industrial focus, would you talk
1207 about what you see as the biggest threats of proposals like
1208 CLEAN Future Act on industrial progress, and the benefits in
1209 your region?

1210 *Mr. Sunday. Thank you for the question, Congresswoman.
1211 I think one of the biggest threats is we don't take into
1212 account the reliability and cost impacts of a sudden and
1213 abrupt transition.

1214 We know the labor unions estimate the goals of this
1215 magnitude would cost about a million-and-a-half jobs over the
1216 next decade-and-a-half. The high energy prices would simply
1217 result in offshoring of key industries. And, as I have noted
1218 in my testimony, higher energy prices don't necessarily
1219 translate to better environmental outcomes, but they do
1220 translate to worse economic performance for our state and
1221 country.

1222 *Mrs. Rodgers. Thank you. As a follow-up, I have seen
1223 in eastern Washington, where I represent, and across the
1224 country the positive work to implement technological advances
1225 in communities by major companies like Land O' Lakes's
1226 American Connection Project. And these companies aren't
1227 waiting for the government to take action, they know that
1228 they can do it better and faster than the Federal Government.

1229 What work do energy companies in Pennsylvania do to be

1230 good stewards of their communities?

1231 *Mr. Sunday. Thank you. In addition, as I mentioned,
1232 to keeping energy prices low and reducing emissions to put
1233 the United States in a world leadership position, it can
1234 touch on a number of community initiatives, whether that is
1235 constructing turkey habitat in conjunction with the National
1236 Wild Turkey Federation, or working with local trade schools
1237 to stand up curriculum and, through EITC programs, donate the
1238 type of high-tech equipment that kids that maybe colleges and
1239 -- not everyone needs to go to college, but they do need a
1240 good education. And so going and having the skilled trades
1241 programs is the focus of a lot of our members, so they can
1242 draw on the local high-schoolers, and put them to work in a
1243 family-sustaining job that supports American energy
1244 independence.

1245 *Mrs. Rodgers. Thank you.

1246 Mr. Walsh, I just wanted to turn to the topic of Buy
1247 Green -- or Buy Clean, Buy Clean, which is a major provision
1248 in this legislation. From your testimony it appears that the
1249 Buy Clean legislative provisions are based upon a program
1250 that has been mandated in California, and the California
1251 program has not been fully implemented. For example, this is
1252 the first year that contractors have had to show compliance.

1253 We often have concerns about the aggressive and
1254 unworkable policies of California that are -- we see

1255 resulting in blackouts and increasing energy costs for
1256 families and communities. We don't even know how this
1257 program is working in California. I just wanted to ask if
1258 you could supply for the record evaluations from stakeholders
1259 regarding the competitive impacts of this program.

1260 *Mr. Walsh. I only have a few seconds left -- happy,
1261 happy to do that, Congresswoman.

1262 You are right, they are just moving into full
1263 implementation this year. But the whole idea of Buy Clean is
1264 to level the playing field for U.S. manufacturers, and to
1265 ensure that taxpayers get the biggest bang for their buck in
1266 terms of jobs in this country, and reductions in pollution.

1267 So happy --

1268 *Mrs. Rodgers. Thanks.

1269 *Mr. Walsh. Happy to engage in a further conversation
1270 with you.

1271 *Mrs. Rodgers. Okay, that would be great. And anything
1272 you can supply would be helpful.

1273 I yield back.

1274 *Mr. Tonko. The gentlewoman yields back, and thank you.
1275 The chair now recognizes the subcommittee chair of oversight
1276 of the standing committee, Representative DeGette of Colorado
1277 for 5 minutes.

1278 *Ms. DeGette. Thank you so much --

1279 *Mr. Tonko. Chair DeGette, please --

1280 *Ms. DeGette. Thank you so much, Mr. Chairman, and
1281 thank you for holding this hearing, and for your important
1282 legislation as well, because I think workforce transition is
1283 really important for everybody to have.

1284 We had a hearing last week in my subcommittee, in the
1285 Oversight Subcommittee, about -- it was actually about the
1286 EPA. But the issue of transitioning in coal-related
1287 communities came up with a -- in a very powerful way with a
1288 witness, actually, from West Virginia. And he was talking
1289 about the disruption we are seeing in coal-dependent
1290 communities.

1291 But frankly, Mr. Walsh, I would like to go with you. I
1292 would like to start with you. This disruption we are seeing
1293 in these communities is not necessarily as a result of
1294 environmental laws, but of changing market forces where
1295 natural gas, wind, and solar energy are out-competing coal,
1296 even in the absence of a federal climate policy. Is that
1297 accurate?

1298 *Mr. Walsh. That is accurate, Congresswoman. And in
1299 fact, over the 4 years of the Trump presidency, we saw coal
1300 mining jobs continue to decline, and coal production hitting
1301 its lowest levels since the 1960s, as both utilities and
1302 consumers continued to shift to cleaner and cheaper forms of
1303 energy.

1304 *Ms. DeGette. And surely, under the Trump

1305 Administration, that was not due to federal energy policies.
1306 In fact, the President told the coal miners that he would
1307 preserve their jobs. And I believe he wanted to preserve
1308 their jobs. But the market just is shifting away from coal.
1309 Is that accurate?

1310 *Mr. Walsh. That is accurate. I would call that a
1311 false promise, which raised some some false hopes,
1312 unfortunately.

1313 *Ms. DeGette. But what is a real situation, though, is
1314 in these communities people are losing their jobs. And I
1315 don't think we can brush that under the rug. We need to
1316 figure out something to do, which is why we are discussing
1317 this bill today. Would that be fair?

1318 *Mr. Walsh. That would be fair. And actually, I think
1319 your state of Colorado provides something of an example in
1320 that regard.

1321 *Ms. DeGette. Well, thank you for raising that, because
1322 in Colorado we have the Colorado Office for Just Transition.
1323 And that has been a model for important elements of my bill
1324 and the CLEAN Future Act. Are you familiar with that
1325 Colorado initiative?

1326 *Mr. Walsh. Yes, we had the pleasure of working with
1327 Colorado policymakers and our allies to craft the legislation
1328 that created that office.

1329 *Ms. DeGette. And can you briefly describe for folks

1330 what that does?

1331 *Mr. Walsh. Sure. What it does is to set up a
1332 centralized office of just transition within state government
1333 in Colorado to play a role that is -- it is actually quite
1334 analogous to the office that is established under title 10,
1335 at a federal level, of the CLEAN Future Act, basically
1336 aligning, coordinating, in particular, different economic and
1337 workforce development programs across state government to
1338 invest in coal communities and workers, and provide support
1339 for those communities and workers.

1340 I think it is really worth flagging that they will be
1341 the first to tell you that they can't do that alone, as a
1342 state.

1343 *Ms. DeGette. Right.

1344 *Mr. Walsh. But the Federal Government has to be a full
1345 partner, particularly when it comes to making investments in
1346 workers and communities.

1347 *Ms. DeGette. Well, and also, Colorado has a much more
1348 diverse economy than just coal, for example. So you really
1349 need a unified national plan to help states like West
1350 Virginia and other states that have an economy much more
1351 dependent on coal. Wouldn't that be fair to say?

1352 *Mr. Walsh. Yes. And in fact, I think the hallmark of
1353 transition is that it happens very differently in very
1354 different parts of the country. And it is based on the

1355 economic profile of that community or region, and the labor
1356 markets of that community and region.

1357 *Ms. DeGette. Some of the efforts in the past to
1358 retrain workers in coal and other energy-dependent
1359 communities have not succeeded. Can you tell us a little bit
1360 about why those programs haven't succeeded, and what would be
1361 different about an initiative like the one we are discussing
1362 today?

1363 *Mr. Walsh. We could talk about that for a while,
1364 Congresswoman. I will just say, really quickly, that it is
1365 absolutely critical that we link job training, workforce
1366 development with economic development and economic
1367 diversification, because it doesn't do any good to train
1368 people for jobs that aren't there. And unfortunately, it is
1369 characteristic of coal-reliant communities that they have a
1370 very narrow economic base, which is one of the reasons we
1371 need to invest in those communities.

1372 *Ms. DeGette. Great, great.

1373 Thank you so much, Mr. Chairman. I am looking forward
1374 to continuing to work with you on these issues, and I yield
1375 back.

1376 *Mr. Tonko. Thank you, Chair DeGette, and we now will
1377 recognize Representative Johnson of Ohio for 5 minutes,
1378 please.

1379 Representative Johnson?

1380 *Mr. Johnson. Thank you, Mr. Chairman. I am going to
1381 shift gears a little bit, and go a little bit of a different
1382 direction in my questions.

1383 You know, I know that some of my friends on the
1384 Republican side today will argue this legislation is a Green
1385 New Deal Light. But I would argue that this is actually the
1386 tactical implementation plan for the Green New Deal. It is
1387 the Green New Deal put into action. The Green New Deal, in
1388 its current form, is a short but broad resolution outlining
1389 the dangerous and unworkable goals of the radical
1390 environmental left. But what we are discussing today, the
1391 900-plus-page CLEAN Future Act, fills in a lot of the blanks.

1392 Today we are discussing decarbonizing industrial
1393 sectors. And unfortunately, this legislation is filled with
1394 top-down mandates and one-size-fits-all incentives, instead
1395 of adopting a true market-driven, all-of-the-above approach,
1396 letting American entrepreneurs and innovators lead the way,
1397 which is what American workers are so well known for.

1398 If implemented, we will look awfully foolish a decade or
1399 so from now, millions of tons of carbon-intensive
1400 manufactured materials and billions of dollars later, only to
1401 find out that advanced nuclear technologies have arrived that
1402 can provide zero-carbon power, including innovative
1403 industrial applications with a fraction of the resources my
1404 Democratic colleagues want to use for large-scale wind and

1405 solar.

1406 So, Mr. Sunday, your examples of the economic vitality
1407 in Pennsylvania are encouraging, especially the central role
1408 an all-of-the-above energy approach has played there. I have
1409 seen it across the border, in my state of Ohio, as well. We
1410 need more American energy innovation expanding into
1411 industrial uses.

1412 But I am worried we aren't focusing on the right
1413 policies today. Removing unnecessary barriers and
1414 modernizing licensing is critical, which is why I have
1415 reintroduced the Strengthening American Nuclear
1416 Competitiveness Act. This legislation would improve our
1417 strategic competitiveness in nuclear technology, and will
1418 facilitate investment in U.S. nuclear technology by our
1419 allies. It will promote efficient licensing for new
1420 industrial uses of nuclear energy, and for new techniques to
1421 help build American nuclear reactors faster, safer, and at
1422 lower cost. Advanced small modular reactors under
1423 development are capable of being safely placed next to
1424 existing industrial infrastructure.

1425 So imagine the uses of these applications to produce
1426 hydrogen, or generate heat with zero emissions. After all,
1427 isn't that the ultimate goal of the Green New Deal, zero
1428 emissions?

1429 So, Mr. Sunday, does this sound like a sound policy?

1430 And could you see these innovations in nuclear
1431 technology coupled with the diverse industrial and
1432 manufacturing industries in Pennsylvania, Ohio, and across
1433 the country?

1434 *Mr. Sunday. Thank you for the question, Congressman.
1435 Yes, I think you are exactly right. That is the type of
1436 building on the tradition -- the traditional industries and
1437 knowledge base we have.

1438 What comes to mind for me is we have great research
1439 institutions like Penn State and Carnegie Mellon, who are
1440 graduating nuclear engineering students who want to be
1441 involved in a growing industry, and advanced nuclear
1442 capabilities into their manufacturing space could be just
1443 that. That lets them stay in states like ours, and grow the
1444 domestic base in high-energy uses, whether that is refining,
1445 whether that is hydrogen, whether that is nanotechnology,
1446 whether that is data centers, all the back-into-the-cloud
1447 computing that we take for granted.

1448 Again, a lot of things that we rely on, there is a high
1449 energy use, and it is very possible in the future that
1450 advanced nuclear fits that. And there is really no credible
1451 zero-carbon strategies out there that don't -- that wouldn't
1452 include carbon capture and advanced nuclear. And it is
1453 important that we keep those options on the table.

1454 *Mr. Johnson. Well, thank you.

1455 Mr. Walsh, do your members believe nuclear technology
1456 should be part of the clean energy solution?

1457 *Mr. Walsh. The partners of BGA believe that zero-
1458 emission electricity -- and nuclear, of course, is an example
1459 of that -- are absolutely critical to achieving net zero by
1460 2050.

1461 *Mr. Johnson. Good.

1462 *Mr. Walsh. I --

1463 *Mr. Johnson. Mr. Perciasepe, how about you?

1464 *Mr. Perciasepe. I have to remember to unmute. I am
1465 here today speaking on behalf of the Renewable Thermal
1466 Collaborative, and we feel -- let me just say quickly that we
1467 feel a significant amount of the lower energy thermal needs
1468 of the industrial sector can quickly and easily, with some
1469 incentives, be decarbonized with renewable energy.

1470 But speaking as a general matter to your bigger question
1471 beyond why I am here today, of course, some of the higher
1472 temperature issues in industry will need other technologies,
1473 and we see incentives for those in the -- in these bills, in
1474 this --

1475 *Mr. Johnson. Okay, all right. Well, Mr. Chairman, I
1476 have extended my period, so I yield back.

1477 *Mr. Tonko. The gentleman yields back. The chair now
1478 recognizes the chair of the Subcommittee on Consumer
1479 Protection and Commerce, Representative Schakowsky, for 5

1480 minutes.

1481 Representative Schakowsky from Illinois, you are
1482 recognized now.

1483 *Ms. Schakowsky. Thank you so much, Mr. Chairman.

1484 Since 1999 the EPA voluntary Energy Star program has
1485 been in effect. And as someone who has absolutely taken
1486 advantage of that when I bought some washer-dryer appliances,
1487 I think it is really, really terrific. And I know that we
1488 now have -- are looking at, as part of the legislation we are
1489 talking about, a Energy Star program. And I want to just
1490 tell you how important it could be to an important business
1491 in my district.

1492 There is a major cement manufacturer, Lafarge. It is
1493 the -- it is headquartered in my district. And so I am
1494 especially interested in this new program, because they have
1495 both a decarbonized version of their product, and the one
1496 that has been traditionally used. And the costs are pretty
1497 similar, but there is no way to distinguish them, and to
1498 encourage the use of the less-carbonized version.

1499 So, Ms. Dell, if you could elaborate on the Climate Star
1500 program and -- you know, I think people know I am not always
1501 for voluntary, but this seems to be working, doesn't it? Or
1502 it certainly has in terms of the Energy Star program. Could
1503 you talk about that?

1504 *Ms. Dell. Sure. Pardon me.

1505 *Mr. Tonko. Bless you.

1506 *Ms. Dell. Thank you so much for the question.

1507 So this bill contains a provision for something called
1508 Climate Star, which is closely analogous to Energy Star, but
1509 looks at greenhouse gas emissions instead of energy
1510 consumption per se. This is a particularly important
1511 distinction in the cement industry, which you mentioned,
1512 because, if you imagine, for example, if you use carbon
1513 capture and storage to reduce your emissions, you might not
1514 reduce your energy consumption, but you would still be a
1515 Climate Star, even if you weren't an Energy Star.

1516 And so one thing that has been a real barrier to the
1517 broader diffusion of existing lower-carbon alternatives has
1518 actually been the public sector's reluctance to use it in
1519 public construction. And that exists at the state, federal,
1520 and local level.

1521 So one of the -- so Climate Star will provide
1522 information and transparency, and allow customers to feel
1523 confident that the thing they are buying is actually better
1524 for the climate than the conventional alternative. But it
1525 will be even more effective paired with the broader Buy Clean
1526 requirements that will move the public sector from being a
1527 laggard to being a leader on this issue.

1528 *Ms. Schakowsky. Thank you so much. You mentioned the
1529 issue of transparency.

1530 And I wanted to ask Mr. Walsh, from your organization's
1531 perspective, why are the transparency measures in the Clean
1532 Future program so important?

1533 [Pause.]

1534 *Ms. Schakowsky. Mr. Walsh?

1535 *Mr. Walsh. Because we need the data. We need to know
1536 the emissions intensity of these different products. We need
1537 to verify it, and we need to learn from it.

1538 There -- the system that it builds on that is already
1539 being used by many manufacturers' environmental product
1540 declarations is called out in the bill. I think we also
1541 need, through the Buy Clean program, to understand whether
1542 that fully captures lifecycle emissions and emissions
1543 connected to transportation. But data is absolutely going to
1544 be critical, and we are not going to get it without full
1545 transparency.

1546 *Ms. Schakowsky. So that is a requirement, not a
1547 voluntary, right, in the bill?

1548 *Mr. Walsh. Yes, I mean, it all builds on transparency.
1549 This -- we have to have that in place as a foundation for the
1550 rest of the program to move forward.

1551 *Ms. Schakowsky. Well, thank you very much.

1552 And I just have a few seconds, so I will yield back.
1553 Thank you.

1554 *Mr. Tonko. The gentlewoman yields back. We now

1555 recognize Representative Duncan of South Carolina.

1556 Representative, you are recognized for 5 minutes,
1557 please.

1558 *Ms. Schakowsky. What -- is anything going on on the
1559 floor?

1560 *Mr. Duncan. Okay, thank you, Mr. Chairman. I want to
1561 thank Mr. DeGette from Colorado for mentioning market forces
1562 and how they actually affect what the United States and other
1563 countries do with regard to climate versus government
1564 regulations.

1565 But I want to address some of the ramifications from an
1566 environmental security and competitiveness standpoint.
1567 Should we pursue market manipulation, manipulating globalist
1568 policies supported by President Biden and the Democrats'
1569 Clean Futures [sic] Act?

1570 I agree with President Biden's Buy American agenda, but
1571 that starts with buying American energy, and supporting
1572 policies to create an environment conducive to supporting
1573 American manufacturing. The Clean Futures [sic] Act and most
1574 all energy and environmental policy coming out of the Biden
1575 Administration undercuts the Buy America idea across the
1576 board.

1577 We don't give enough credit to the environmental
1578 progress the U.S. has made as a result of the American energy
1579 renaissance. We got here by innovation in the energy

1580 industry, not through mandates and regulations. The United
1581 States has become the number-one oil and gas producer in the
1582 world, while simultaneously outpacing most of the world in
1583 reducing emissions. In 2019 U.S. emissions reached our
1584 lowest level since 1992. Market forces drove this, not
1585 government policies.

1586 I want to thank Mr. Johnson from Ohio for discussing the
1587 role that nuclear power and innovation plays in lowering our
1588 carbon footprint, while also providing very-good-paying jobs
1589 within the energy sector.

1590 Energy Secretary Jennifer Granholm delivered her first
1591 international address as Energy Secretary this week, and she
1592 said the U.S. should replicate Germany's 50 percent
1593 renewables. But the fallacy in that is this -- so she is
1594 holding Germany out as the model the U.S. should follow --
1595 the fallacy is this: Germany began shutting down all their
1596 nuclear power plants after Fukushima. They only have a
1597 handful -- I think seven -- operating now, and are all
1598 scheduled to close. Germany imports electricity from France,
1599 which -- 75 percent of which is generated from nuclear power.
1600 It is the only way Germany's renewables actually work.

1601 The only way Germany can get to the 50 percent or lower
1602 renewables is by importing French nuclear-generated
1603 electricity. The price of German electricity is twice that
1604 of the average French household. Germany's shift to

1605 renewables is why countries like Poland are also looking to
1606 expand their electricity generation capacity, buying nuclear
1607 power plants. They know they can make a fortune off selling
1608 power to Germany because of Germany's desire to feel good and
1609 their pretension of being green.

1610 And so if we are talking about global carbon reductions
1611 and global energy, nuclear power has got to be a big part of
1612 this. Mr. Sunday, you note that, as we develop new
1613 technology solutions in both fossil and zero-carbon
1614 resources, it is imperative trade and energy policies support
1615 the continued export of these solutions to developing
1616 countries. I couldn't agree more.

1617 We can help improve the lives of people across the globe
1618 by exporting U.S. energy sources, clean-burning natural gas
1619 that helps them have electricity and get off of the more
1620 climate-producing dirtier energy. Can you speak to some of
1621 the geopolitical ramifications of the U.S. not exporting our
1622 energy, Mr. Sunday?

1623 *Mr. Sunday. Thank you for the question, Congressman.
1624 There is a few.

1625 India is a growing market, carbon intensive, a billion
1626 people there want reliable, low-carbon energy. LNG is an
1627 answer there.

1628 In the Middle East we have seen some turmoil for
1629 decades. I was always -- the Strait of Hormuz, if an oil

1630 tanker went down, it was cause for war. We had that
1631 recently, two springs ago. And because of the LNG assets, it
1632 has given greater optionality that we didn't descend into
1633 another war over that, because we are less reliant on those
1634 fuels.

1635 Sending LNG to Southeast Asia to shore up their security
1636 reduces their footprints, and have to rely less on Chinese
1637 and Russian energy, and the same goes for our allies in
1638 Eastern Europe.

1639 And we are landing LNG in Spain, in the Mediterranean,
1640 in Turkey. And that is allowing them to have the option of
1641 turning away and saying, "No, Russia, we would rather have
1642 energy from a country that is interested in democracy."

1643 *Mr. Duncan. There is no doubt about that. And look,
1644 Russia and China are way ahead of us on emerging nuclear
1645 technologies. The United States needs to get in gear. We
1646 are a true leader in nuclear power. But instead of dealing
1647 with bills like the CLEAN Future Act, we need to put our
1648 resources toward modernization and innovation in the nuclear
1649 power realm, and exporting that. It is less carbon
1650 footprint, cleaner burning.

1651 And with that, Mr. Chairman, I will yield back.

1652 *Mr. Tonko. The gentleman yields back. The chair now
1653 recognizes the gentleman from Maryland.

1654 Representative Sarbanes, you are recognized for 5

1655 minutes, please.

1656 *Mr. Sarbanes. Thank you very much, Mr. Chairman, and
1657 thank you for convening today's hearing on the CLEAN Future
1658 Act. I want to thank the witnesses for their very valuable
1659 testimony.

1660 I am particularly interested today in the focus on
1661 communities and, in particular, how the CLEAN Future Act can
1662 take action to protect and uplift communities across the
1663 country and in my state of Maryland.

1664 I represent parts of Baltimore, which, as many of you
1665 here know, was once a thriving industrial hub. Over time
1666 that base shrank, unfortunately, creating a lot of economic
1667 hardship across many communities. And it is vital that we
1668 have conversations like we are today on how you can
1669 revitalize and reinvigorate our local economies.

1670 The CLEAN Future Act does more than just start that
1671 conversation. I have to say it takes action. The measures
1672 like the Clean Energy and Sustainability Accelerator and the
1673 community transition provisions in title 10 are an example of
1674 this. It is a promise to invest in economically distressed
1675 communities across the country. And these investments and
1676 programs can bring new clean industries to places like
1677 Baltimore, which, in turn would create jobs, expand economic
1678 opportunity, and so forth.

1679 Mr. Perciasepe, first of all, thank you for all your

1680 incredible work over the years, your career of commitment on
1681 the environment, your service in the past to the State of
1682 Maryland, which we are all very proud of.

1683 Can you speak to the accelerator's potential to
1684 jumpstart investment in clean and innovative industries,
1685 especially in parts of our country that have seen this kind
1686 of decline in industrial activity?

1687 *Mr. Perciasepe. Thank you. Thank you, Congressman,
1688 for that question and for the shout-out. Baltimore is a
1689 favorite -- a very important place in my heart.

1690 You know, there are a number of provisions in the
1691 Futures Act [sic] that really address and look at the
1692 paramount issue that we need to have in a decarbonizing
1693 world, and that is how to strengthen American industry and
1694 American manufacturing in that environment.

1695 So you have things like the Clean Energy Manufacturing
1696 Grant Program, which have a focus on small and modest-sized
1697 businesses. But you also have the Clean Energy
1698 Sustainability Accelerator, which has provisions in it to not
1699 just look at funding a particular technology, but also
1700 funding a -- economic development around a decarbonized
1701 future for our manufacturing and industrial sector.

1702 And here is where a facility like the accelerator can
1703 not only stimulate innovation, which I think is paramount,
1704 but also pull in private capital, giving the confidence that

1705 the Federal Government is there with them. Private capital
1706 will be needed, as well, as we look at these communities in a
1707 broader economic development program.

1708 So I think the accelerator has a lot of mechanisms, and
1709 it has a lot of authority in the bill to look at those things
1710 more broadly, and provide that broader economic development
1711 stimulus, which I think will be essential, for not only urban
1712 areas, but also rural areas, as agriculture and forestry are
1713 also part of that.

1714 *Mr. Sarbanes. Thank you very much. I think it is a
1715 terrific idea, this accelerator, and I would emphasize your
1716 phrasing here, that it can help stimulate innovation, because
1717 we hear this suggestion, that somehow the Federal Government
1718 is trying to become the chief innovator, and crowd out or
1719 push away all of the sort of private-sector innovators out
1720 there that are getting started.

1721 That is not what we are doing here. We want to
1722 stimulate innovation in creative ways. And the Federal
1723 Government has done that many times before, and can do it
1724 through this accelerator program.

1725 I have got about 45 seconds left, but, Mr. Walsh, maybe
1726 you can speak, as well, to what you think the potential offer
1727 through the accelerator program is.

1728 *Mr. Walsh. I mean, I think it is significant, and I
1729 just want to say that we strongly support the prioritization

1730 of investments in the accelerator to disproportionately
1731 impacted communities. We think that is really essential, not
1732 just in Baltimore, but across the country.

1733 I think we would love to work with you to broaden the
1734 definition of what constitutes qualified projects. But I
1735 think, as written, this is a really great start.

1736 *Mr. Sarbanes. Great, thank you very much.

1737 Mr. Chairman, thank you. I yield back.

1738 *Mr. Tonko. You are most welcome. The gentleman yields
1739 back. The chair now recognizes the gentleman from Utah.

1740 Representative Curtis, you are recognized for 5 minutes,
1741 please.

1742 *Mr. Curtis. Thank you, Mr. Chairman. Chairman
1743 Pallone, in his opening remarks, reminded us that science was
1744 to be our impetus. And I am not a scientist. So at a very
1745 surface level, I would like to look at the science of the
1746 CLEAN Future Act.

1747 Now, let's suppose hypothetically, just hypothetically,
1748 that we take a moonshot, and we are able to reduce our
1749 greenhouse gas emissions to zero. Hypothetically, not by
1750 2050, but by 2030.

1751 So I ask -- and it is somewhat of a rhetorical question
1752 -- I ask members of this committee and our witnesses, what
1753 would be the impact on worldwide greenhouse gas emissions if
1754 we were 100 percent successful with that moonshot?

1755 Now, looking at the Paris Accord -- you will know where
1756 I am going -- China will reach its peak of carbon emissions
1757 in 2030. And so I believe the science tells us that, even if
1758 we are wildly successful, we will fail in our goal of
1759 reducing worldwide carbon emissions, even if this bill is
1760 implemented. And we all know that there would be more carbon
1761 in the air, not less, because of these other countries.

1762 And any one of our witnesses that would like to dispute
1763 that or tell me I am wrong, I would love to hear from you.

1764 And I believe that is because, in the name of the U.S.
1765 showing leadership, we are proposing that the U.S. sacrifice
1766 U.S. jobs and, at the same time, we are willing to give a
1767 pass to a human rights-violating dictator.

1768 And let's be honest, in the year 2030 the U.S. could
1769 take our greenhouse gas emissions to zero, and we would fail
1770 in what I believe is a shared goal, reducing worldwide
1771 greenhouse gas emissions.

1772 Now, Mr. Sunday, the U.S. has -- I am told -- has
1773 reduced emissions more in the last decade than the next 12
1774 emission-reducing countries, combined. In your testimony you
1775 said something, and it caught my attention, and you said -- I
1776 am paraphrasing -- "No country has the story to tell like the
1777 United States.'" Why aren't we telling the story, Mr.
1778 Sunday?

1779 Why don't we hear this -- in your opinion, why aren't we

1780 shouting this from the housetops?

1781 *Mr. Sunday. Well, that is, in part, why I am so
1782 honored to be here today, to help let folks know what
1783 Pennsylvania has done to contribute to that story. It is a
1784 story that can't be told. It is a story we shouldn't be
1785 ashamed of. And it is trends that we would -- should want to
1786 continue, continued emissions reductions outpacing the
1787 developed world on growth, and keeping consumers' energy
1788 costs low --

1789 *Mr. Curtis. I have got a --

1790 *Mr. Sunday. -- batting three for three.

1791 *Mr. Curtis. Yes, I have got a theory, and I would like
1792 to ask you if you feel like you could verify it. We could
1793 lower more greenhouse gas emissions by exporting U.S. natural
1794 gas to China and India than by implementing the CLEAN Future
1795 Act. Do you have a response to that?

1796 *Mr. Sunday. Not having an advanced degree of
1797 mathematics, intuitively, yes. It makes sense, right?

1798 *Mr. Curtis. Yes.

1799 *Mr. Sunday. I would definitely agree with that, yes.

1800 *Mr. Curtis. And so, like, this whole concept of, like,
1801 we don't need to kill fossil fuels -- fossil fuels, according
1802 to your testimony, is our secret weapon to dramatically lower
1803 worldwide greenhouse gas emissions.

1804 So I am quite limited on time, but I would like to kind

1805 of switch gears for a minute. And Mr. Walsh, I have listened
1806 carefully to your testimony, and I believe you are very, very
1807 sincere in your desire to help these communities.

1808 I represent a county, and the name of that county is
1809 called Carbon County. So you can imagine what they do in
1810 this county. And I watched closely the exchange between you
1811 and Representative DeGette about how programs have not
1812 succeeded there. Are you aware of any programs that have
1813 succeeded in these coal countries?

1814 And I don't know that you need to elaborate all of them
1815 now, but are we being successful anywhere in this concept?

1816 *Mr. Walsh. I believe we have a lot of really promising
1817 examples from the power grant program that we started during
1818 the Obama Administration and continued through the Trump
1819 Administration. A lot of that was focused on Appalachia.
1820 For a bunch of reasons, in part because we didn't have a
1821 whole-of-government approach, and an office at the White
1822 House, we had a harder time driving investment to coal
1823 communities out west, in the district that you represent.
1824 But I think there are many examples out there, be happy to
1825 share some of them with you for the record, if that would be
1826 helpful.

1827 *Mr. Curtis. Yes, I am going to run out of time, so --
1828 but I would love to do that offline with you, because I share
1829 this goal with you. And I have a theory in this regards,

1830 too, is that one of the problems is that our dialogue so
1831 often villainizes these people in coal country, and that is a
1832 hard way to start. Does that make sense?

1833 And I would love us to think about how we address these
1834 communities, and how they feel, before we even come in with
1835 these plans because of this villainization.

1836 I regret that I am out of time. I would love to explore
1837 that more offline with you.

1838 *Mr. Walsh. Will the chairman indulge me, just to
1839 respond to that?

1840 I want to strongly agree with you, Congressman. In
1841 fact, we need to start from the premise that workers in these
1842 communities, these communities themselves, have kept the
1843 lights on in this country for generations. They deserve our
1844 respect. They deserve our support, which is exactly why we
1845 need the kind of policy constructs envisioned by title 10 of
1846 the CLEAN Future Act. So we would love to continue that
1847 conversation.

1848 *Mr. Curtis. Thank you.

1849 Thank you, Mr. Chairman.

1850 *Mr. Tonko. The gentleman yields back. The chair now
1851 recognizes the gentleman from California.

1852 Representative Peters, you are recognized for 5 minutes,
1853 please.

1854 *Mr. Peters. Thank you so much, Mr. Chairman. And I

1855 also want to begin by acknowledging some of the comments from
1856 my colleagues on the other side.

1857 Of course, we have to work internationally to solve this
1858 problem. I certainly don't disagree with that.

1859 I believe there is a role for nuclear. I believe there
1860 is a role for looking at streamlining permitting,
1861 particularly for renewables. And I would love to work with
1862 you on all that stuff.

1863 But I do have to one -- make the one comment again about
1864 reducing our emissions. It is great that we reduce our
1865 emissions by the use of natural gas, but let's remember that
1866 all of the climate benefits of natural gas are lost unless we
1867 deal with methane. And I am talking to my colleagues about
1868 that, as well. So -- and I think we should not pat ourselves
1869 -- break our arms patting ourselves on the back about natural
1870 gas without dealing very frankly with the methane threat.

1871 I do want to talk to Dr. Dell, and in particular about
1872 the comment you made in your testimony, "In order for Buy
1873 Clean to be as successful as possible, it should be
1874 complemented by investments in innovation and the
1875 commercialization of strategic new technologies in the
1876 industrial sector.'" I couldn't agree with you more.

1877 As you well know, concrete is the second-most-used
1878 material on Earth after water, and its main binding agent
1879 -- ingredient, Portland cement, accounts for fully seven

1880 percent of global carbon emissions. The Buy Clean program in
1881 the Futures [sic] Act would require building materials and
1882 products procured with federal funds to achieve a minimum GHG
1883 standard. This provides a strong incentive to reduce the
1884 quantity of carbon emissions.

1885 And similar to California's Buy Clean threshold model,
1886 the -- our Buy Clean approach goes one step further, and
1887 includes a program called the Climate Star Program that would
1888 establish a voluntary labeling mechanism to identify and
1889 promote products with significantly lower embodied emissions
1890 than comparable products, while meeting strict performance
1891 standards in order to reduce GHG emissions and encourage the
1892 use of products with lower embodied emissions.

1893 I think that is great. I do have to acknowledge that
1894 one of the most popular sports in this committee is to beat
1895 up on California. I have to say I heard about rolling
1896 blackouts. No one has changed their talking points,
1897 apparently, since since Texas had their problems.

1898 But let me just say that I heard about a Buy Clean model
1899 in New York and New Jersey. So I would like to talk about
1900 that, and see whether you thought that was a good approach.
1901 It is called the Low Embodied Concrete Leadership Act [sic],
1902 or LECCLA. And the basic concept is concrete producers would
1903 bid on public projects based on the global warming potential
1904 values of their concrete, in addition to costs. And those

1905 with the highest-performing global warming potential scores
1906 get a discount rate applied to their bid price, making their
1907 bids functionally less expensive and more competitive,
1908 relative to lower-performing bids.

1909 For products that use any carbon capture utilization or
1910 storage technologies to manufacture their concrete, a
1911 discount would be applied. Now, my interest in this is that
1912 it might actually incentivize producers to work beyond any
1913 threshold that we might set, if the incentive was good
1914 enough. So I wanted to hear, if you are able -- if you are
1915 familiar with the bill, what you thought the benefits of that
1916 approach might be, and how an approach like this might fit
1917 into existing legislation and plans.

1918 Dr. Dell?

1919 *Ms. Dell. Thank you so much for the question,
1920 Congressman Peters. And if you will indulge me, I will say I
1921 used to be your constituent, back when I was a scientist at
1922 the Scripps Institution of Oceanography.

1923 *Mr. Peters. If you indulge me, I am sympathetic that
1924 you had to move someplace else.

1925 *Ms. Dell. You know, I remember at the time one of my
1926 colleagues commenting that, when it came to lifestyle, we are
1927 the one percent. San Diego is a very beautiful part of the
1928 world.

1929 But on your substantive question, I think that the broad

1930 point that you are making is incredibly important, that what
1931 we need in our Buy Clean programs is to both ensure that
1932 everybody is using current best practices, but also that we
1933 are providing incentives for people to innovate, or for
1934 people to do new things, and to get, you know, new and even
1935 better-than-current best practices systems in place, and to
1936 make that profitable.

1937 And so I actually think that the New York and New Jersey
1938 model is fantastic. I am a big fan of it. And my reading of
1939 the Clean Futures [sic] Act, of this title of the Clean
1940 Futures [sic] Act, is -- tells me that there is -- the
1941 current legislative text retains a lot of flexibility about
1942 exactly how the program would be structured that, ideally,
1943 would be used to both incentivize innovation and current best
1944 practice.

1945 *Mr. Peters. Thank you. I have run out of time. I
1946 wanted to -- but I would just say that, although they always
1947 like commenting on California, my subcommittee chair and full
1948 committee chair might like an idea from New York and New
1949 Jersey, so I think we should pursue it, and I yield back.

1950 *Mr. Tonko. The gentleman is absolutely right. We
1951 would appreciate that. And he yields back.

1952 So now we now will -- the chair will recognize the
1953 gentleman from Alabama.

1954 Mr. Palmer, you are recognized for 5 minutes, please.

1955 *Mr. Palmer. Thank you, Mr. Chairman.

1956 Mr. Sunday, the hearing is about creating jobs and
1957 working in communities. Would banning the development of
1958 natural gas and other fossil fuels create jobs for working
1959 communities in Pennsylvania?

1960 *Mr. Sunday. No, that would cause enormous economic
1961 disruptions in our state.

1962 *Mr. Palmer. Do you think that would be true in other
1963 states?

1964 *Mr. Sunday. Yes.

1965 *Mr. Palmer. Do you think that if we just completely
1966 eliminated the production of steel and petrochemicals, that
1967 the world would just quit using steel and petrochemicals?

1968 *Mr. Sunday. No, and that speaks to the folly of
1969 supply-side intervention. There is still a demand, globally,
1970 for these products, and it does us no good to lose the
1971 domestic base and just have them manufactured somewhere else.

1972 *Mr. Palmer. My next question is do you think that
1973 these would simply move offshore, as so many of our
1974 industries did during the Obama Administration? Do you think
1975 that might happen?

1976 *Mr. Sunday. Yes, that is quite likely.

1977 *Mr. Palmer. Can you briefly discuss how NEPA prevents
1978 newer and cleaner infrastructure from being built?

1979 *Mr. Sunday. Sure. We are part of the Unlock American

1980 Investment Coalition, which includes all sorts of builders,
1981 groups, contractors, manufacturers, developers. If a federal
1982 -- a federally-approved or federally-permitted project
1983 touches NEPA, we are looking on upwards of 5 years for the
1984 federal agency to get the paperwork done on that. On
1985 transportation infrastructure projects, it is upwards of 7 or
1986 8 years.

1987 Where -- we have got a rail project outside of
1988 Philadelphia to expand public transit that has been under
1989 NEPA review since 2012. If we want to upgrade our
1990 infrastructure, we have got to get our act together on
1991 permitting.

1992 *Mr. Palmer. I think the same thing would apply if we
1993 wanted to upgrade our electric grid. I am -- I assume that
1994 most of my Democratic colleagues are aware that we don't have
1995 one single grid, that it is a patchwork, and it would be
1996 enormously expensive to replace that grid.

1997 I want to talk a little bit more about -- under section
1998 -- under title 5 of the CLEAN Future Act, we will spend
1999 billions of dollars to support manufacturing clean energy
2000 technologies and components. Some of the covered
2001 technologies and components likely include batteries for
2002 electric vehicles and solar panels. Both of those require
2003 substantial amounts of critical rare-earth materials.

2004 If we are not mining in the U.S. for these materials,

2005 where are we going to get them?

2006 *Mr. Sunday. Well, at present, most of the mining and
2007 refining base for those products is China.

2008 You mentioned the word "rare.'" They are definitely
2009 critical. We have some of those assets here. The problem is
2010 a lot of folks are opposing new mining and refining for those
2011 types of minerals. So absolutely, smart national energy
2012 policy would encourage mining of these types of materials,
2013 domestically.

2014 *Mr. Palmer. We have just established, I think, that if
2015 this bill were to pass and become law, that a lot of these
2016 industries would move offshore to other countries, everything
2017 from steel manufacturing, petrochemicals, to mining and
2018 production, and refinement of rare-earth metals, probably to
2019 China and India and some other places.

2020 Do you have an idea of what their records are, what
2021 their laws are regarding environmental issues, emissions,
2022 things like that?

2023 *Mr. Sunday. Yes, I think, you know, a cursory look at
2024 their emissions output per GDP, much more carbon-intensive,
2025 much more particulate matter coming out of their factories.
2026 And then it makes its way across the Pacific, and contributes
2027 to why some of our western states have such persistent ozone
2028 issues, because there is so much air pollution from
2029 international sources that we still feel the impacts of,

2030 believe it or not, halfway across the world.

2031 *Mr. Palmer. Are you aware that 25 -- according to the
2032 EPA, 25 -- up to 25 percent on any given day of the air
2033 pollution, the particulate matter over the skies of Los
2034 Angeles, are from China?

2035 And they project in a few years 30 percent of all the
2036 emissions over the State of California will be from China.

2037 And also, we had a hearing on the Select Committee on
2038 Climate Crisis, and I asked the Democrat witnesses -- all
2039 three of whom were scientists, one of whom was one of the
2040 lead authors and editors of the International Panel on
2041 Climate Change report -- and I asked them, if we completely
2042 eliminated all CO2 emissions, went to absolute zero in the
2043 U.S. and the entire world, would it stop climate change, and
2044 the answer was no.

2045 So I might suggest that, if this were to become law, we
2046 implement it only in Democrat congressional districts, and
2047 see how that works out.

2048 I yield back.

2049 *Mr. Tonko. The gentleman yields back. The chair now
2050 recognizes the gentlewoman from Michigan.

2051 Representative Dingell, you are welcome to question now
2052 for 5 minutes, please.

2053 *Mrs. Dingell. Thank you, Chairman Tonko, and thanks
2054 for having this important hearing on the Clean Futures [sic]

2055 Act.

2056 [Inaudible] from the industrial sector present both
2057 technical and financial challenges. And I am from the
2058 Midwest, and I am watching this happen. But there are
2059 solutions to those challenges, and I am thrilled that this
2060 hearing is focused on such solutions.

2061 One of the solutions, which I am proud to be
2062 spearheading [inaudible and sustainable accelerator. The
2063 accelerator is based on the Green Bank model that has been
2064 successfully deployed across cities and states, including my
2065 own home state of Michigan. Similar legislation passed the
2066 House twice last Congress. And so thank you for including it
2067 in the CLEAN Future Act, again.

2068 Capitalized with \$100 billion over a 6-year period, the
2069 accelerator will leverage public and private funds to invest
2070 in low and zero-carbon technologies, clean infrastructure
2071 buildings and transportation, sustainable agriculture, and so
2072 much more. It would also support the development of new
2073 state and local green banks. And importantly, it would
2074 direct 40 percent of investments to communities on the front
2075 lines of climate change, a key pillar of the thrive agenda.

2076 And I would like to thank the Coalition for Green
2077 Capital for all their help in developing and advancing the
2078 bill.

2079 Mr. Perciasepe, your testimony outlines some of the

2080 benefits of establishing the accelerator, particularly for
2081 the industrial sector. Can you elaborate on how this type of
2082 financing institution differs from other tools in our
2083 toolbox, why it is so important for us to establish a program
2084 like the accelerator to help overcome barriers to financing
2085 projects that reduce emissions in the U.S.?

2086 *Mr. Perciasepe. Yes, thank -- Congresswoman, thank you
2087 so much for that question, and all that you have been doing,
2088 working on these issues.

2089 Let me just give a few highlights of that. Otherwise,
2090 we could spend the rest of the hearing on it.

2091 But the key thing here -- and you have already outlined
2092 it -- is the holistic approach taken here in this financial
2093 facility. It looks not just at a particular kind of
2094 technology, or a particular kind of server, it looks at all
2095 of it that is combined. It has to be pulled together to
2096 really make sure that we strengthen our economic situation
2097 and our economic development as we move forward.

2098 It also has the ability, as you pointed out, to help
2099 facilitate local financial facilities. But more importantly,
2100 it sends a huge signal to the private markets. We have
2101 talked a lot on this hearing so far about market mechanisms
2102 versus command and control. Well, here is a massive market
2103 mechanism.

2104 Once the Federal Government makes this kind of

2105 significant commitment, which in today's dollars isn't a lot
2106 different than what we did in the moonshot, and we send that
2107 signal to the private sector, as you have pointed out, it is
2108 going to leverage hundreds of billions of dollars of private
2109 investment, which is what we need.

2110 The last point I will make. We have innovation going on
2111 in this country. When innovators are working, one of the
2112 things they see in their future is what do I do -- how do I
2113 get it commercialized? How do I move to the point where
2114 things can be implemented? This facility has the ability to
2115 take the innovation and -- that is developed in research and
2116 development programs and move it to that next level.

2117 So I think there is a lot of opportunity here, and we
2118 are very supportive.

2119 *Mrs. Dingell. Mr. Perciasepe, I have a ton of
2120 questions, and I am almost out of time. So let me ask you
2121 one more.

2122 Can you -- Mr. Chairman, I want to do some for the
2123 record.

2124 But can you explain why and how a program like the
2125 accelerator is so critical to unleashing private investment
2126 in clean technology and infrastructure, especially in areas
2127 of our economy like the industrial sector?

2128 *Mr. Perciasepe. Yes. Well, certainly, the industrial
2129 sector is one of the more difficult to visualize how we are

2130 going to deal with the great diversity of industrial
2131 processes that go on there. Some of those have been
2132 mentioned already, including, you know, for instance,
2133 LafargeHolcim and cement manufacturing.

2134 The idea of being able to assist in those very varied
2135 ways in a more holistic approach with something like the
2136 accelerator is really going to provide that impetus for that
2137 public-private partnership, and drive the market forces of
2138 private investment in the same direction.

2139 So I could give you a lot longer explanation, and I
2140 would be happy to reply for the record when you send those
2141 questions.

2142 *Mrs. Dingell. I will do that.

2143 Mr. Chairman, I yield back zero seconds.

2144 *Mr. Tonko. Thank you so much.

2145 The gentlewoman yields back. Next the chair recognizes
2146 the gentleman from Georgia.

2147 Representative Carter, you are recognized for 5 minutes,
2148 please.

2149 *Mr. Carter. Thank you, Mr. Chairman, and thank all of
2150 you for being part of this most important discussion. And,
2151 Mr. Perciasepe, I want to ask you, Georgia is the number-one
2152 forestry state in the nation. We have more --

2153 *Mr. Tonko. Excuse me --

2154 *Mr. Carter. We have more forestry than any other state

2155 in the nation, and it is extremely important to us. And
2156 biomass is something that we have really concentrated on. In
2157 fact, we have biomass plants in my district that provide
2158 biomass for a number of different industries, as well as we
2159 send biomass for heating purposes to Europe, and they use a
2160 lot of it, as well.

2161 So I wanted to ask you. During the Obama Administration
2162 the EPA's Office of Air and Radiation had sent out a
2163 memorandum in November of 2014 on the carbon benefits of
2164 forest-derived biomass. And the memorandum said -- and I
2165 quote -- "Use of waste-derived feedstocks and certain forest-
2166 derived feedstocks are likely to have minimal or no net
2167 atmospheric contribution to biogenic CO2 emissions, or even
2168 reduce such impacts, when compared with an alternative
2169 disposal.'"

2170 I know that you have written op eds, as well -- in fact,
2171 I think you wrote an op ed in The Hill almost a year ago --
2172 citing the benefits of biomass. And I wanted to ask you,
2173 since you have noted and EPA has noted that the
2174 decarbonization benefits of forest-derived biomass -- do you
2175 agree that it makes sense for the EPA to recognize the
2176 benefits of bioenergy produced from forest products that --
2177 manufacturers?

2178 *Mr. Perciasepe. Oh, I am still unmuted, great.

2179 Yes, you know, the Renewable Thermal Collaborative lists

2180 biomass as one of their key components of the options
2181 available to decarbonize parts of the thermal needs of
2182 American manufacturing and industry.

2183 The counterbalance to that, and what is always the
2184 hangup in everybody's analysis -- and my op ed, not
2185 representing the Renewable Thermal Collaborative, but
2186 representing myself, pointed out that most of the forest land
2187 in the United States is privately owned. And to maintain
2188 those forests needs to be an economic incentive for those
2189 forests to be maintained.

2190 And so finding that balance of all the proper
2191 sustainable foresting practices to assure that the balance is
2192 correct, in terms of the carbon neutrality of the use of
2193 those forest products, is what the discussion is about. And
2194 I am confident that we can -- we, as a country -- can work
2195 through that. And I think some of the innovation that will
2196 be stimulated by some of the provisions in this bill can, I
2197 hope, help move those industries closer together.

2198 *Mr. Carter. Well, I appreciate you saying that very
2199 much. I serve on the Select Committee for Climate Change,
2200 and I have just -- sometimes I run up against a brick wall
2201 when I talk about biomass as being carbon neutral. And
2202 people just don't want to accept it. But it is carbon
2203 neutral.

2204 And if you think about it, you know, with the

2205 sustainable forests and everything that we are doing with our
2206 forests here in America, that is certainly an egg in the egg
2207 basket, if you will, that we need to be using to fight carbon
2208 emissions. Would you agree?

2209 *Mr. Perciasepe. Look, we need to preserve the American
2210 forest and allow even additional forest to grow. And this is
2211 another whole conversation. Again, I think there are some
2212 incentives in this bill that will stimulate innovation in
2213 this area.

2214 But whether it is 100 percent carbon neutral or 93
2215 percent carbon neutral or 95 percent, that is -- that can be
2216 determined. And I am going to guess here, without any
2217 scientific analysis, that there will be some discounting
2218 there because of, you know, transportation issues and other
2219 things, but -- and management practices. But certainly there
2220 are significant benefits. And, you know, certainly the
2221 Renewable Thermal Collaborative that I am representing today
2222 sees biomass as an important component of decarbonizing
2223 industrial heat.

2224 *Mr. Carter. Right. Well, thank you for that very
2225 much. I appreciate it.

2226 Mr. Sunday, very quickly, because I am running out of
2227 time here, under title 9 of this bill all the permits that
2228 would essentially be -- would -- all permits would
2229 essentially be stopped for plastic. And not only that, but

2230 this means that recycling of plastics would also be stopped.

2231 How is that going to impact -- killing the recycling,
2232 cutting-edge technology that we are working on, how is that
2233 going to provide us a realistic path forward?

2234 *Mr. Sunday. It would do nothing but shoot ourselves in
2235 the foot. And again, it calls us to rely on manufacturing in
2236 other countries.

2237 *Mr. Carter. Right. Well, I am out of time, but thank
2238 you, and I yield back, Mr. Chairman.

2239 *Mr. Tonko. The gentleman yields back. The chair now
2240 recognizes the gentlewoman from California.

2241 Representative Barragan, you are recognized for 5
2242 minutes, please.

2243 *Ms. Barragan. Thank you, Chair Tonko, for holding this
2244 important hearing in reducing industrial emissions and a just
2245 transition. This is an important issue for me.

2246 My district has heavy industry, including oil refineries
2247 in Carson, California and Wilmington, California that pollute
2248 the air in what is a majority Latino and African-American
2249 communities. But also these jobs support -- are union jobs.

2250 As we transition away from fossil fuels to a clean
2251 energy economy, it is critical we make the necessary
2252 investments to ensure that every community can breathe clean
2253 air, and that no worker is left behind.

2254 Mr. Perciasepe, the industrial sector is a significant

2255 contributor for greenhouse gas emissions, and it is also a
2256 major cause of the environmental injustice in low-income
2257 communities and communities of color. Can you describe how
2258 electrifying industry and increasing the amount of clean
2259 energy used by the industrial sector can help to reduce the
2260 impact of pollution in communities?

2261 *Mr. Perciasepe. Yes, that -- and thank you for that
2262 question. As I mentioned in my testimony, the industrial
2263 sector is one of the more complicated ones to decarbonize,
2264 because of the diversity of the different manufacturing
2265 processes.

2266 But here -- but almost 50 percent of the emissions are
2267 coming from the need for heat. And heat is something that is
2268 ubiquitous across all industrial sectors. They need to heat
2269 things, or to create products to drive them -- you know, all
2270 -- for all different needs. But how that heat is created is
2271 about 50 percent of the greenhouse gas emissions. I am
2272 rounding here, it might be upper 40 percent.

2273 And so reducing the emissions from that heat, which many
2274 have already done, has been pointed out here. There has been
2275 some fuel switching to cleaner natural gas, but there is a
2276 real opportunity to continue to use things like
2277 electrification, using renewable energy for that, or biomass
2278 -- I was just talking about -- but with all -- obviously,
2279 with the proper pollution controls on it.

2280 The other place that is really important, Congresswoman,
2281 is in the innovation of the industrial processes. How can
2282 those industrial processes be modified to reduce the
2283 emissions that they produce, as well?

2284 And I think looking at that holistically are what some
2285 of the measures in the Clean Futures [sic] bill tries to do.

2286 *Ms. Barragan. Well, thank you for that.

2287 Now, I think it is helpful to look at incentives that
2288 can be helpful in reducing emissions and setting standards
2289 for different sectors of our economy. You know, it is
2290 critical to reducing fossil fuel usage and reaching 100
2291 percent clean energy.

2292 We already have fuel economy standards for
2293 transportation. And the CLEAN Future Act proposes a clean
2294 electricity standard for utilities. Should we also have
2295 standards for the industrial sector to address climate and
2296 environmental justice issues?

2297 And maybe you can elaborate a little bit on what that
2298 would look like.

2299 *Mr. Perciasepe. Well, the -- certainly, the thermal
2300 part of the industrial sector can be subjected to performance
2301 standards similar to a clean energy standard. It is -- there
2302 -- you know, there is still energy being used. But the
2303 industrial process part of it, you know, the making of
2304 cement, the cracking of chemicals at a refinery to make

2305 plastics and other goods, the moving of iron ore to elemental
2306 iron, all of these things require not only heat, but also
2307 they have chemical processes.

2308 And so those processes aren't able to -- there is
2309 innovation that could be occurring there that will help
2310 reduce those emissions. But a clean energy-type standard or
2311 performance standard could be applied to the thermal aspects
2312 of industrial heat.

2313 *Ms. Barragan. Thank you. Mr. Walsh, in California
2314 there are 35,000 abandoned oil wells sitting idle, many
2315 leaking methane and harmful chemicals in communities of
2316 color. Across the country there are millions of abandoned
2317 wells. Could investing in communities to plug and remediate
2318 these wells be part of a just transition program that creates
2319 immediate job opportunities?

2320 *Mr. Walsh. Quickly, absolutely. It has the combined
2321 effect of cleaning up polluted sites, but also creating jobs
2322 in the short term.

2323 Let me just speak to your other question. I think one
2324 of the most important opportunities provided by pursuing
2325 solutions around industrial decarbonization is to also reduce
2326 criteria pollutants from the industrial sector. And there
2327 are ways in which -- of deploying technologies that can do
2328 both. And that is what is so exciting, I think, about this
2329 industrial title.

2330 *Ms. Barragan. Great, thank you, sir.

2331 With that, Mr. Chairman, I yield back.

2332 *Mr. Tonko. The gentlewoman yields back. The chair now
2333 recognizes the gentleman from Texas.

2334 Representative Crenshaw, you are recognized for 5
2335 minutes, please.

2336 *Mr. Crenshaw. Thank you, Mr. Chairman. Thank you all
2337 for being here. Look, I want to focus on costs and benefits
2338 and tradeoffs.

2339 Policymaking is about tradeoffs, not necessarily
2340 solutions. And when you have a preferred solution in mind,
2341 well, then there is a large incentive to exaggerate problems,
2342 exaggerate benefits associated with that solution, and
2343 diminish the costs associated with that. So there is a lot
2344 of things to cover here.

2345 I want to hit the transition of jobs, or the supposed
2346 transition of jobs. The reality is that this bill creates
2347 one job, and that is a director of a task force that would
2348 have -- would supposedly transition workers to green energy
2349 jobs. The problem is -- and this has already been
2350 acknowledged in this hearing -- that if there is no
2351 opportunity on the other end of that, well, these government
2352 programs never work.

2353 The Washington Post had to fact-check John Kerry using
2354 Bureau of Labor Statistics data when John Kerry claimed that

2355 the fastest-growing jobs in America, or some of them, were
2356 renewable energy jobs. Here is the thing. By percentage-
2357 wise, that might be true. But in reality, when you actually
2358 look at the -- in absolute numbers, it is only about 10,000
2359 new jobs over the next 10 years. Here's the other thing.
2360 These jobs, on average, pay about \$20,000 less than oil and
2361 gas jobs.

2362 This idea that we are just going to transition jobs is a
2363 myth. It is a fantasy.

2364 I want to hit on the Buy Clean program, and this
2365 question will be directed to Ms. Dell, just a quick question.

2366 If the plan was implemented perfectly, we didn't lose
2367 any industry, let's say, which, of course, is quite the
2368 assumption, how much would we actually reduce carbon
2369 emissions?

2370 *Ms. Dell. Thanks so much for the question. The first
2371 thing I would say is that one of the most important aspects
2372 of Buy Clean is that it has no incentive whatsoever to
2373 offshore production. Exactly the same standards are applied
2374 to overseas production --

2375 *Mr. Crenshaw. Please answer the question. I have such
2376 -- if we had an hour, I would love to talk with you. But
2377 please answer the question that I asked.

2378 *Ms. Dell. Sure, that is all I wanted to say. And so
2379 building materials in the U.S. represent a few percent of our

2380 total emissions. So if we brought those to zero, we might
2381 see an impact of a few hundred million tons of CO2.

2382 *Mr. Crenshaw. Okay, so a few percent meaning three
2383 percent of U.S. emissions?

2384 *Ms. Dell. Well, that depends very sensitively on how
2385 much money Congress decides to spend on infrastructure.

2386 *Mr. Crenshaw. Let's say it is ten percent. All right?
2387 Let's say we reduce U.S. emissions by ten percent. U.S.
2388 emissions account for about 15 percent of global emissions.
2389 This would equal about one percent decrease in global
2390 emissions, which is kind of nothing, practically speaking, at
2391 a huge cost.

2392 I realize you claim that there is no cost to this. I
2393 notice you said that in your testimony, too, but you did not
2394 cite any references. Do you have any references now for why
2395 there would be no cost? Have you consulted with industry
2396 about this?

2397 *Ms. Dell. Yes, so in my written testimony there are
2398 extensive footnotes which provide all the numbers. But I
2399 didn't say there would be no costs. I said the costs would
2400 be very modest.

2401 *Mr. Crenshaw. Okay --

2402 *Ms. Dell. Typically --

2403 *Mr. Crenshaw. A lot of people in industry would
2404 vehemently disagree.

2405 I want to move on and ask another question --

2406 *Ms. Dell. Very modest compared to the cost of the
2407 infrastructure project, not necessarily very modest compared
2408 to the cost of the old way of making cement.

2409 *Mr. Crenshaw. Okay. Again, cost benefits is what I am
2410 trying to get at.

2411 On plastic manufacturing -- so there would be a pause on
2412 new plants in the next 3 years. On this question, what
2413 benefits do we expect from doing that?

2414 Is the benefit directed towards emissions, or plastics
2415 recycling, or are we afraid plastics are going in the ocean?

2416 What is the expected benefit?

2417 *Ms. Dell. So I was not invited to testify on the
2418 plastics title of the bill.

2419 *Mr. Crenshaw. Okay. Does any other witness want to
2420 answer that question?

2421 [No response.]

2422 *Mr. Crenshaw. Okay, well, I am going to say it is
2423 both, right? I am going to say that maybe my colleagues are
2424 expecting both, okay? So it is emissions and we don't like
2425 plastic in the oceans.

2426 I don't like emissions. I want to reduce emissions. I
2427 also don't like plastic in the oceans.

2428 Here's the thing. Let's look at this study: Danish
2429 Ministry of Environment and Food found that you would have to

2430 use a cotton bag 20,000 times just to have less environmental
2431 impact than a simple plastic bag. Now, look, I am a
2432 Millennial. I take that cotton bag to Whole Foods. I do.
2433 But I know I am virtue signaling. I know that it is actually
2434 bad for the environment. We need to acknowledge this
2435 reality.

2436 In California you can't get a plastic bag.

2437 Here's the other thing. If we are concerned about
2438 plastic in the oceans, let's be honest, you are in America.
2439 Your straw isn't going into the ocean. It just isn't. Ten
2440 rivers contribute to ninety percent of plastic in the oceans.
2441 It is not your straw.

2442 Mr. Sunday, in my limited time left, can you hit this
2443 theme of the costs that are being ignored by this bill?

2444 *Mr. Sunday. Sure. I think, broadly speaking, we see
2445 significant public intervention in the marketplace. You see
2446 a glut of the thing that the government is trying to buy, and
2447 scarcity and high prices for the things that the market
2448 actually needs. So that has been an under-explored aspect of
2449 all of this.

2450 If private companies' management wanted to make a
2451 significant change, then we would need to see some modeling,
2452 some analysis, some real extensive understanding of tradeoffs
2453 before we would jump on that sort of massive shift in
2454 approach on the private side.

2455 So from where we sit in Pennsylvania -- like, again, we
2456 have done everything we should be doing, in terms of air
2457 quality, energy costs, and manufacturing, and we want to see
2458 those trends continue.

2459 *Mr. Crenshaw. Thank you, and I yield back no time.
2460 Thank you, Mr. Chairman.

2461 *Mr. Tonko. The gentleman yields back. The chair now
2462 recognizes the gentleman from Virginia.

2463 Representative McEachin, you are recognized for 5
2464 minutes, please.

2465 *Mr. McEachin. Thank you, Mr. Chairman, and thank you
2466 for your excellent leadership in this area, and for the
2467 introduction of the CLEAN Future Act.

2468 You know, to my mind there is nothing more important
2469 than combating our climate crisis. I have said it before and
2470 I will say it again, it is the most important issue of the
2471 21st century. We have exactly one opportunity to get it
2472 right, and we can't afford to miss the mark. I will go ahead
2473 and skip right to my questions.

2474 Mr. Walsh, first of all, thank you for the wonderful and
2475 outstanding work that you and the others on the BlueGreen
2476 Alliance are doing. You previously worked on coordinating
2477 interagency efforts through the POWER initiative. Can you
2478 give us a sense of the importance of having a formalized
2479 process to reach across agencies and to incorporate

2480 stakeholder input in the design and implementation of federal
2481 programs?

2482 How critical is participation through an advisory
2483 committee otherwise -- of affected workers or community
2484 members to the success of these efforts?

2485 It is a 2-part question.

2486 *Mr. Walsh. A coordinated office is essential. What we
2487 did during the Obama Administration, as you and I have talked
2488 about, was kind of ad hoc, kind of jury-rigged. I think we
2489 got a lot done, but what we were missing was a structural
2490 system in place that would allow different offices, different
2491 agencies to work together. So that was vitally important.

2492 On the point of public participation, look, you know,
2493 the best kind of economic development is from the bottom up,
2494 right? The way you get that is getting full buy-in and full
2495 participation from community members, economic developers,
2496 other stakeholders in local communities about their vision,
2497 their plan for the economic future of their community. So it
2498 is absolutely vital.

2499 *Mr. McEachin. Thank you, that is a nice segue into my
2500 next question about empowering local leaders. Can the
2501 Federal Government play a role in the community-driven
2502 economic redevelopment by supporting capacity building,
2503 technical assistance, and financial support?

2504 *Mr. Walsh. Yes, it can, and I think in title 10 the --

2505 you see some clear examples of that, in particular the
2506 establishment of, essentially, community hubs, right, that
2507 would put into practice what I just described about bottom-up
2508 planning, and also really help navigate -- help these local
2509 communities and workers navigate the federal resources that
2510 are out there. That, in my experience, is incredibly
2511 important.

2512 *Mr. McEachin. Sir, I am sure you will agree with me
2513 that remediation is an awfully important aspect of what we
2514 have to do to get to where we need to be by 2050: the
2515 cleaning up of abandoned mine field -- I mean abandoned
2516 mines, Superfund sites, orphan oil wells, orphan gas wells,
2517 and brownfield sites. How can these remediation activities
2518 help provide jobs, protect public health, and lay the
2519 groundwork for future economic growth in these communities?

2520 *Mr. Walsh. Well, I mean, they create jobs for a number
2521 of different trades in the cleanup itself, some of which is
2522 actually highly skilled. So there is an immediate job
2523 creation incentive right there.

2524 But it also recognizes that you are not really going to
2525 get economic development in places that are badly polluted,
2526 right? Businesses aren't going to locate there, new
2527 businesses aren't going to grow there. People aren't going
2528 to want to live there. If you have got a watershed, for
2529 example, that is poisoned by acid mine drainage, then that is

2530 not an attractive place to build a new business or a new
2531 industry sector. So it is a vital precondition for economic
2532 diversification to clean up the mess that was left behind.

2533 I would also say, look, we talked about -- you heard a
2534 little exchange before about costs. Let's also be clear that
2535 -- the costs of pollution, right?

2536 You know, the University of Minnesota issued a report in
2537 2019 that found that poor air quality is responsible for more
2538 than 100,000 deaths in the United States due to heart
2539 attacks, strokes, lung cancer, and other diseases. And
2540 these, of course, are impacts that disproportionately impact
2541 communities of color and low-income communities.

2542 If we are going to have a full conversation about costs,
2543 we need to be talking about those costs, as well. And
2544 cleaning up those costs, cleaning up that pollution not only
2545 addresses that, but creates jobs and creates the conditions
2546 for sustainable, more resilient economic development.

2547 *Mr. McEachin. Well, thank you for that very fine
2548 answer. You know, we -- historically, we have undervalued
2549 the societal cost of pollution, and we appreciate you
2550 bringing our attention back to that.

2551 Mr. Chairman, I am out of time. I yield back.

2552 *Mr. Tonko. Yes, the gentleman yields back. The chair
2553 now recognizes the gentlewoman from Delaware.

2554 Representative Lisa Blunt Rochester, you are recognized

2555 for 5 minutes, please.

2556 *Ms. Blunt Rochester. Thank you, Mr. Chairman, for
2557 calling this important hearing on the CLEAN Future Act. And
2558 thank you to all the witnesses for your testimony today.

2559 As has been said, and as we all know, the climate crisis
2560 continues to threaten our country and the world. And in
2561 order to avoid the worst effects of climate change, we need
2562 to move to a 100-percent clean energy future.

2563 Transitioning to a clean energy future is not only an
2564 imperative for our planet, but it is also an opportunity to
2565 rebuild our economy in the wake of the COVID-19 pandemic.
2566 And millions of new construction, skilled trades, and
2567 engineering jobs needed to build a clean energy future will
2568 help us to create a cleaner, healthier, more equitable and
2569 sustainable country.

2570 Mr. Walsh, I would like to start with you. In response
2571 to Representative Crenshaw's question, and as someone who
2572 works closely with unions, how do you view the relationship
2573 between tackling the climate crisis and jobs?

2574 And does it create more net jobs or not?

2575 And then secondly, if you could just talk about how
2576 people from varying skills and educational levels will also
2577 be able to partake.

2578 *Mr. Walsh. Thank you for the question, Congresswoman.
2579 It is our view that rebuilding and repairing our

2580 infrastructure and our industrial base to be modern, safe,
2581 less polluting is an enormous job-creation opportunity. We
2582 can cite different metrics. Some have actually been
2583 referenced in this committee in the past.

2584 But I want to emphasize just how much work will be
2585 involved in doing all of those things in the industrial
2586 sector, in the energy sector, in the building sector, as you
2587 know well, in environmental remediation. These are
2588 enormously big projects that we need to take on, and that
2589 will create a lot of jobs.

2590 Now, the key is to make sure that the jobs created are
2591 high quality, and the jobs are accessible to the broadest
2592 range of the American people, right? And so we have some
2593 work to do in that regard. It is the case that the job
2594 quality of jobs that are in the wind and solar industries
2595 right now is really mixed. It is not good enough. But what
2596 that doesn't mean is that we should try to stand in the way
2597 of this transformation. What that means is that we should
2598 use well-established policy levers to improve the quality of
2599 jobs in those sectors, right?

2600 *Ms. Blunt Rochester. Yes.

2601 *Mr. Walsh. This Act does that, right? It uses a
2602 prevailing wage.

2603 *Ms. Blunt Rochester. Yes.

2604 *Mr. Walsh. It uses project labor agreements. It uses

2605 community benefits. So I just want to be really clear about
2606 that point.

2607 *Ms. Blunt Rochester. Thank you for clarifying.

2608 And I think that it is important to say that this isn't
2609 easy work. As you may know, I served as secretary of labor
2610 in Delaware, and also head of state personnel. And so jobs
2611 are a passion for me, which is why I created our first-of-
2612 its-kind, bipartisan Future Work Caucus in the Congress to
2613 look at challenges and opportunities.

2614 And earlier this week, just this week, I got to visit
2615 the Port of Wilmington, where they are showing us how they
2616 are using automation and ways to not displace workers -- they
2617 have worked with the union with a guarantee that no one would
2618 lose their job, but they are also now being able to expand.

2619 And so, in shifting to a clean energy future, how can we
2620 alleviate even some of the fears of automation in the
2621 industrial sector?

2622 *Mr. Walsh. Talk to the bricklayers. What they will
2623 tell you is that -- I mean, as folks who know -- and you know
2624 the construction trades -- this is incredibly skilled work.
2625 It is also dangerous work, and it is hard on the body, right?

2626 If you can surgically use robotics to lift things on a
2627 construction site, you are not only going to be increasing
2628 productivity, but you are going to be helping that bricklayer
2629 that is, you know, right next to that machine that is helping

2630 that person do their work. So I think that is part of the
2631 conversation that we need to be having.

2632 *Ms. Blunt Rochester. Yes, thank you.

2633 And Dr. Dell, what role does data play in our evolution
2634 to a clean energy future?

2635 And how can we use data to support our low-carbon
2636 investments?

2637 *Ms. Dell. Thank you for the question. As has come up
2638 already in the hearing, data and transparency are going to be
2639 critical for this, because we want to be -- we want to design
2640 our policies to reward people who -- and firms that are using
2641 the cleanest and most modern techniques. And in order to do
2642 that, we need to have accurate information about what are the
2643 environmental performance of not just domestic firms, but
2644 also international firms that want to participate in domestic
2645 markets.

2646 *Ms. Blunt Rochester. Thank you so much. My time has
2647 expired, but I want to thank the chairman for his leadership
2648 and his vision in this area.

2649 Thank you, I yield back.

2650 *Mr. Tonko. Thank you very much. The gentlewoman
2651 yields back. Next the chair recognizes the gentleman from
2652 Florida.

2653 Representative Soto, you are recognized for 5 minutes,
2654 please, and thank you for your patience.

2655 *Mr. Soto. Thank you, Chairman. I want to start with a
2656 history lesson. Quote, "As we sign this bill in this room,
2657 we can look back and say, 'In the Roosevelt Room, on the last
2658 day of 1970, we signed a historic piece of legislation that
2659 put us far down the road toward a goal that Theodore
2660 Roosevelt, 70 years ago, spoke eloquently about, a goal of
2661 clean air, clean water, and open spaces for future
2662 generations of Americans'.'" That was a quote by Republican
2663 President Richard Nixon during the Clean Air Act signing
2664 ceremony.

2665 When the Clean Air Act was first -- became law in 1970,
2666 it passed in the Senate unanimously, and only one person
2667 voted against it, one member of the House voted against it.
2668 What a shining environmental achievement. So what has
2669 happened since then?

2670 I realize this is hard for many of you, since there are
2671 major coal, oil, or gas industries in your states that
2672 provide jobs. And we need to work together to ensure
2673 transition in these communities. Because we know why; we
2674 face a climate crisis.

2675 We must reduce carbon emissions to avoid intensifying
2676 hurricanes -- we know that in Florida -- rising sea levels
2677 -- we also know that in Florida -- extreme heat in the summer
2678 and extreme cold in the winter. Its effects are even worse.
2679 Our agriculture could start to fail, and more Americans will

2680 go hungry. We can see the entire southern United States find
2681 themselves as climate refugees. Add political
2682 destabilization, war, and famine across the world, and you
2683 fully begin to understand the impacts that happen.

2684 In addition, I have heard countless arguments about
2685 China and India. Let me say it again. Their failures don't
2686 define American excellence. We do. And as we develop these
2687 technologies, we will sell them abroad, and position
2688 ourselves for continued economic dominance in the 21st
2689 century.

2690 So once again, our nation has to come together with a
2691 comprehensive plan. That is what the Clean Futures [sic] Act
2692 is. It moves us towards carbon neutrality by 2050, with
2693 decarbonization of government, transportation, utilities,
2694 manufacturing, and agriculture. And we will continue to
2695 convert our transportation system with electric vehicles.

2696 The facts that my colleagues -- the fact that my
2697 colleagues across the aisle aren't motivated by the climate
2698 crisis, perhaps other things will motivate you, like the fact
2699 that the private sector is already moving forward with all
2700 this. Look no further than Ford or GM and the electric
2701 vehicles. They are rolling on the market faster than you
2702 could think. Millennials, the biggest generation, they are
2703 moving along. Consumer preferences, insurance companies,
2704 reinsurance markets, boardrooms are moving forward.

2705 You blocked the Clean Power Plan, utilities still moved
2706 forward. You blocked the auto fuel efficiency standards,
2707 auto manufacturers still moved forward. So we could either
2708 work on this bill, or communities you represent can be left
2709 behind. And sooner or later, they will realize that it is
2710 your fault, that we should have worked together on this.

2711 Lastly, I want to mention that this would include solar,
2712 and it would include hydro, and it would include wind, and it
2713 would also include nuclear power. President Biden's climate
2714 plan includes nuclear power. Let me repeat that. President
2715 Biden's plan includes nuclear power. It calls for the
2716 development of small, modular reactors, SMRs. So I offer to
2717 work with you all.

2718 Let me end just by talking to Mr. Perciasepe. We know
2719 we have in Florida the Martin Next Generation Solar Energy
2720 Center located in Indiantown, and concentrating solar power
2721 has been a real potential.

2722 Can you go into some of the roles that CSP can play in
2723 expanding the use of renewables in the industrial sector, Mr.
2724 Perciasepe?

2725 *Mr. Perciasepe. Thank you. Thank you for that
2726 question.

2727 Yes, concentrated solar power is different, in a way,
2728 than what we traditionally think with the photovoltaic cells.
2729 It is a -- taking -- concentrating the forces of the sun into

2730 a more defined point or space, which can create very high
2731 temperatures.

2732 And so, for some industrial operations that need high
2733 temperatures and have the space for that kind of a collection
2734 system, you can definitely achieve some exceedingly high
2735 temperatures, which is really one of the more challenging
2736 parts of the industrial sector. But if you are looking at an
2737 industrial park, or some other large industrial complex,
2738 usually it will be harder to implement that.

2739 So it has a role, it is an important part of the
2740 solution, but it will have that geographically limited
2741 ability.

2742 *Mr. Soto. Thank you, Mr. Perciasepe. My time has
2743 expired, and I yield back.

2744 *Mr. Tonko. The gentleman yields back. The chair now
2745 recognizes the former vice chair of the standing Committee on
2746 Energy and Commerce, and a fellow New Yorker.

2747 Representative Clarke, you are recognized for 5 minutes,
2748 please.

2749 *Ms. Clarke. Let me thank you, Mr. Chairman and Ranking
2750 Member McKinley, for convening today's hearing, a hearing on
2751 an important set of provisions within the CLEAN Future Act.
2752 And thank you to our witnesses for your testimony.

2753 We have heard from our witnesses it is crucial that we
2754 scale up investment in the clean technologies and

2755 infrastructure.

2756 Just a couple of weeks ago I was speaking with a
2757 minority-owned clean energy startup called WeSolar CSP, which
2758 has an office in my district. Their unique solar thermal
2759 technology allows them to provide scalable clean energy for a
2760 variety of applications, including industrial. Now that we -
2761 - now what they need is the financing opportunity to put
2762 their technology into action. I think that the Clean Energy
2763 Sustainability Accelerator included in the CLEAN Future Act
2764 is a perfect example of how the Federal Government can help
2765 address this need.

2766 In my home state of New York we have seen firsthand just
2767 how beneficial these types of programs can be. Since its
2768 inception, the New York Green Bank has used \$1.2 billion of
2769 public funds to stimulate over 3.4 billion in total
2770 investment in clean energy and energy-efficiency projects
2771 across New York State.

2772 But that is not all. I am proud to say that New York
2773 City is home to the first local green bank in the United
2774 States, known as the New York City Energy Efficiency
2775 Corporation. In my district in Brooklyn this program helped
2776 finance an affordable, multi-family solar and storage
2777 microgrid at the Marcus Garvey Apartments, serving 625 units.
2778 This investment has resulted in a clean and resilient energy
2779 system that also provides major savings on energy costs for

2780 community residents.

2781 Across the nation, state and local green banks have
2782 helped communities save money, improve efficiency, and reduce
2783 emissions. Now it is time we bring this model to the federal
2784 level.

2785 So, Mr. Perciasepe, do you agree that establishing a
2786 national accelerator will help reduce the cost of climate
2787 action and expedite the transition into a cleaner, healthier,
2788 and more prosperous economy?

2789 [Pause.]

2790 *Ms. Clarke. Mr. Perciasepe?

2791 *Mr. Perciasepe. Yes, I am -- can you guys hear me?

2792 *Ms. Clarke. We can now.

2793 *Mr. Perciasepe. I am sorry, I hope it is not my side
2794 over here, but I am on my personal Internet here.

2795 The accelerator is broadly constructed to look at
2796 solutions, and cooperating with the local green banks, as
2797 well. So I think it has a great opportunity to help
2798 accelerate the work that is underway by existing green banks,
2799 but also filling gaps where those existing green banks
2800 haven't yet gone, in the more broader --

2801 *Ms. Clarke. And why is it so important that we make
2802 financing for clean technology and clean infrastructure more
2803 accessible, all the way down to the community level?

2804 *Mr. Perciasepe. Well, one of the barriers, obviously,

2805 to transition and also to innovation is that next step. And
2806 whether it is transitioning at the community level, or
2807 becoming more resilient at a community level, which is also
2808 part of the portfolio of the accelerator, all of these things
2809 require that insertion of investment.

2810 And so this is a real opportunity to bring together both
2811 the green and clean technology, and accelerating that, and
2812 providing financing for it to move toward being
2813 commercialized, and at the same time looking at the
2814 infrastructure and other needs at the local community level
2815 as part of that resiliency component.

2816 *Ms. Clarke. Yes, I couldn't agree more. The ability
2817 to focus investments on local circumstances is critical to
2818 addressing the needs of local communities, particularly
2819 environmental justice communities. I am very glad to see
2820 that our committee's accelerator proposal places this issue
2821 front and center by directing 40 percent of investments to
2822 frontline and disadvantaged areas.

2823 I thank my colleague, the gentlelady from Michigan, Rep.
2824 Dingell, for her leadership on the accelerator, and I look
2825 forward to working with her and the committee to advance this
2826 program.

2827 With that, Mr. Chairman, I yield back.

2828 *Mr. Tonko. The gentlewoman yields back. And now we go
2829 to, I believe, our last colleague to question, and that would

2830 be the gentleman from Virginia.

2831 Representative Griffin, thank you for your patience, and
2832 you are recognized for 5 minutes, please.

2833 *Mr. Griffith. Thank you very much for letting me waive
2834 on, Mr. Chairman, I greatly appreciate it, and it is a policy
2835 of -- it is a bipartisan policy this committee has had for
2836 some time. It allows us to get into issues that we consider
2837 important, even if we are not on the subcommittee, if we are
2838 on the full committee. So I do appreciate it.

2839 Mr. Sunday, I have appreciated your perspective today
2840 and in your testimony on how we can leverage our historical
2841 leadership in energy and industry to continue leading the
2842 world in clean and affordable electricity. On page nine of
2843 your testimony you state that the cost of triggering NSR, new
2844 source review, has caused companies in your state to cancel
2845 projects that would have reduced emissions, lowered operating
2846 costs, and improved public health and our environment.

2847 I would like to describe -- I always like to describe
2848 this as forcing a company to swallow the apple whole, whereas
2849 I think, if we take bites, or if we allow the company to take
2850 bites out of that apple, they would be able to consume the
2851 apple. In other words, get the improvements that are needed
2852 out there. But if they are forced because of NSR to take it
2853 all in at one time, then they just don't do it.

2854 Do you agree with that assessment or analysis?

2855 *Mr. Sunday. Yes, I do. It is certainly an obstacle to
2856 enhancing the operations of domestic facilities and getting
2857 cleaner. It is a very perverse regulatory approach that
2858 discourages cleaner operations from our facilities.

2859 *Mr. Griffith. And in fact, I will tell you that -- and
2860 I have said this before in committee in other contexts --
2861 that, you know, whether they could get around it or not, I
2862 have a furniture manufacturing facility in my district that
2863 now has a conveyor belt to nowhere. It goes out, oh, I don't
2864 know, 75, 50 -- 75, 100 yards, and comes back because at one
2865 time part of their paint process was at the other end of the
2866 conveyor belt.

2867 But they had been advised by their attorneys, because of
2868 NSR, not to take that conveyor belt out because then that
2869 would trigger the entire set of the Clean Air Act rules
2870 coming down on their heads. And they are like, okay, it
2871 costs us a couple of seconds in manufacturing of each piece
2872 of furniture that we do, case goods, but, even though we are
2873 fighting every second to get it better to compete with the
2874 Chinese, we can't afford to have -- suddenly to have all
2875 these new rules placed on us at one time.

2876 Is that -- do you have similar stories, or have you
2877 heard stories like that, as well?

2878 *Mr. Sunday. Yes, it comes up in a number of contexts.
2879 Maybe you come out of an economic recession, and your factory

2880 wants to run more. NSR is going to hit you if your emissions
2881 -- if you are going to make a significant modification.

2882 In other circumstances, maybe you want to add another
2883 shift, and NSR again comes into play. As you mentioned, it
2884 discourages efficiency improvements.

2885 And, you know, and we have had the opportunity at the
2886 Chamber to come down in front of this committee in the past
2887 and talk about, you know, your potential solutions, other
2888 ways to make NSR better.

2889 Whatever we want to make in this country, whether it is
2890 solar panels, telecommunications assets, et cetera, NSR
2891 reform has got to be on the table if we are going to talk
2892 about competitiveness.

2893 *Mr. Griffith. And I appreciate that. And people need
2894 to remember that NSR is just one piece of the complicated
2895 Clean Air Act regulatory puzzle, and providing much-needed
2896 clarity to this complex program does not take away from other
2897 provisions under the Clean Air Act. And it is clear that
2898 providing greater certainty through common-sense, targeted
2899 reforms would replace some of the ambiguity and confusion
2900 surrounding NSR, and result in a more effective and efficient
2901 program.

2902 And you mentioned that I have legislation, and I do, the
2903 NSR Improvement Act, and it would do that. But there is
2904 nothing in the CLEAN Future Act or the Climate Leadership and

2905 Environmental Action for our Nation's Future Act. There is
2906 nothing in there that deals with NSR reform, is there?

2907 *Mr. Sunday. No, sir.

2908 *Mr. Griffith. Yes. Let me ask you this. What
2909 adopting an hourly emissions rate test like the one used in
2910 the EPA's new source performance standard program, enhance
2911 the new source review, or NSR program, so that companies can
2912 update their facilities and install technologies like carbon
2913 capture? Would that be helpful?

2914 *Mr. Sunday. Yes, and that is a solution we have
2915 endorsed in the past.

2916 *Mr. Griffith. Yes, I think that makes sense. And in
2917 fact, as you may recall, the language that was in the
2918 underlying bills that started the NSR and started the new
2919 source performance standard, that language is virtually
2920 identical. But because of interpretations in different
2921 divisions of the EPA, we have a completely different
2922 application. Is that not your understanding, as well?

2923 *Mr. Sunday. Yes, it really depends on the regional
2924 office. Yes.

2925 *Mr. Griffith. Yes. And that makes it hard for
2926 businesses to make decisions, does it not?

2927 *Mr. Sunday. Yes, or at least causes certain parts of
2928 the country to lose out on investment.

2929 *Mr. Griffith. And that investment would make the air

2930 cleaner, correct?

2931 *Mr. Sunday. Correct. Again, we are always -- we can't
2932 just put blinders on and pretend that it is only what is
2933 going on in the United States. It is a globally competitive
2934 market.

2935 *Mr. Griffith. I am for getting the air cleaner. Let's
2936 pass some NSR reform. Thank you for your testimony.

2937 I yield back.

2938 *Mr. Tonko. The gentleman yields back. And I believe
2939 that completes the list of colleagues who had chosen to ask
2940 questions.

2941 I again thank our witnesses for joining us at today's
2942 hearing. Their input is extremely appreciated.

2943 I do remind members that, pursuant to committee rules,
2944 they have 10 business days by which to submit additional
2945 questions for the record to be answered by our witnesses. I
2946 ask that each witness please respond promptly to any such
2947 questions that you may receive.

2948 Before we adjourn, I know that a number of documents
2949 have been asked to be entered into the record by our
2950 colleagues, so I hereby ask unanimous consent for the
2951 following documents to be entered into the record: a letter
2952 from Fortera; a report from a Analysis Group entitled,
2953 "Accelerating Job Growth and an Equitable Low-Carbon Energy
2954 Transition: The Role of the Clean Energy Accelerator"; a

2955 report from Brattle entitled, "Clean Energy and
2956 Sustainability Accelerator: Opportunities for Long-Term
2957 Deployment''; a statement from the American Forest and Paper
2958 Association; a statement from the Ultra Low-Carbon Solar
2959 Alliance; a report from Coalition for Green Capital entitled,
2960 "Accelerating Investment in Clean Energy and Climate
2961 Infrastructure to Create Jobs and Drive an Equitable and Just
2962 Transition: Policy analysis of the Clean Energy and
2963 Sustainability Accelerator''; a letter from the Industrial
2964 Energy Consumers of America; a report from ClimateWorks
2965 entitled, "Build Clean: Industrial Policy for Climate and
2966 Justice''; a report from the Just Transition Fund entitled,
2967 "National Economic Transition Platform''; a report from the
2968 State of Colorado's Department of Labor and Employment
2969 entitled, "Colorado Just Transition Action Plan''; a report
2970 from the State of Colorado's Department of Labor and
2971 Employment entitled, "The Need for Federal Support to Ensure
2972 Just Transitions for Local Energy Economies''; a letter from
2973 the Biotechnology Innovation Organization; a letter from the
2974 Portland Cement Association; a report from the Lawrence
2975 Livermore National Library entitled, "Permitting Carbon
2976 Capture and Storage Projects in California.''

2977 Without objection, so ordered.

2978

2979

2980 [The information follows:]

2981

2982 *****COMMITTEE INSERT*****

2983

2984 So with all of that, we again encourage our witnesses to
2985 respond promptly to any questions that are submitted after
2986 this formal part of the hearing.

2987 And at this time the subcommittee is adjourned.

2988 [Whereupon, at 1:40 p.m., the subcommittee was
2989 adjourned.]