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- 6 BEYOND THE BLUE BIN: FORGING A FEDERAL LANDSCAPE FOR
- 7 RECYCLING INNOVATION AND ECONOMIC GROWTH
- 8 WEDNESDAY, JULY 16, 2025
- 9 House of Representatives,
- 10 Subcommittee on Environment,
- 11 Committee on Energy and Commerce,
- 12 Washington, D.C.

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

- 18 Present: Representatives Palmer, Crenshaw, Latta,
- 19 Griffith, Carter of Georgia, Joyce, Weber, Pfluger, Miller-
- 20 Meeks, Lee, Evans, Fedorchak, Guthrie (ex-officio); Tonko,
- 21 Schakowsky, Ruiz, Peters, Barragan, Soto, Carter of
- 22 Louisiana, Menendez, Landsman, and Pallone (ex-officio).
- 23 Also present: Representative Harshbarger.

Byron Brown, Chief Counsel; Christian Calvert, Press

Assistant; Sydney Greene, Director of Finance and Logistics;

Christen Harsha, Senior Counsel; Calvin Huggins, Clerk; Joel

Miller, Chief Counsel; Ben Mullaney, Press Secretary; Kaitlyn

Peterson, Policy Analyst; Chris Sarley, Member

Services/Stakeholder Director; Katharine Willey, Senior

Counsel; Giancarlo Ceja, Minority ENV Fellow; Tiffany

Staff Present: Ansley Boylan, Director of Operations;

- 33 Minority Professional Staff Member; Caitlin Haberman,
- 34 Minority Staff Director, ENV; Emma Roehrig, Minority Staff

Guarascio, Minority Staff Director; Anthony Gutierrez,

35 Assistant; and Kylea Rogers, Minority Policy Analyst.

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- *Mr. Palmer. Good morning, and welcome to today's
- 38 subcommittee hearing entitled, "Beyond the Blue Bin: Forging
- 39 a Federal Landscape for Recycling, Innovation, and Economic
- 40 Growth.''
- Before I begin I would like to thank Chairman Guthrie
- 42 for the opportunity to lead the Environment Subcommittee. I
- 43 would also like to thank Chairman Griffith for his excellent
- leadership of the subcommittee, and wish him the best as the
- 45 new Chairman of the Subcommittee on Health.
- And to my friend and colleague, ranking member, Mr.
- 47 Tonko, I look forward to working with you.
- 48 *Mr. Tonko. Thank you. Likewise.
- 49 *Mr. Palmer. As Chairman of the Subcommittee on
- 50 Oversight and Investigations, I focused on the importance of
- 51 critical minerals to our national security and holding the
- 52 Environmental Protection Agency accountable. I look forward
- 53 to continuing that important work in this new role.
- Waste and recycling are generally considered to be
- 55 regional issues regulated at the state and local level.
- 56 However, we will hear testimony today about the national and
- 57 economic security implications of recycling policy. In his
- 58 first days in office, President Trump emphasized the need to
- 59 secure our critical mineral and rare Earth supply chains. We
- 60 must use an all-of-the-above approach when it comes to
- 61 ensuring our ability to access these critical minerals and

- 62 elements, which is why electronic waste, e-waste, is so
- 63 important for our future.
- With the growth of data centers and the use of
- 65 technology, e-waste is accumulating higher rates every year,
- 66 with billions of dollars in losses as this technology reaches
- its end life. E-waste is a commodity that can be repurposed
- in our fight to not only be energy independent, but energy
- 69 dominant. Let me be clear. We will not recycle our way out
- 70 of these issues. However, as we look to build out our mining
- 71 capacities, our processing and refining capacities, e-waste
- 72 recycling innovation provides vital short and long-term
- 73 support for our needs as a nation.
- 74 The President also issued an executive order on the
- 75 importance of putting America first in international
- 76 environmental agreements. As part of the negotiations for
- 77 the Global Plastics Treaty, the Biden-Harris Administration
- 78 announced support for bans on plastics and a cap on plastic
- 79 production. That would not be in America's interest.
- I look forward to hearing from our witnesses about the
- 81 role that American businesses can play in innovating and
- 82 developing technologies to take advantage of the
- 83 opportunities in the recycling industry. The threat China
- 84 poses to the United States and our allies cannot be
- 85 overstated. We will hear from our witnesses today on how we
- 86 can use recycling as a tool to compete with China and to

87	protect our communities.
88	Thank you to our witnesses for being here today. It is
89	my understanding we have not had a hearing on this topic in
90	some time, and I appreciate my colleagues engaging on this
91	important issue.
92	[The prepared statement of Mr. Palmer follows:]
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94	*********COMMITTEE INSERT******
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- 96 *Mr. Palmer. I look forward to our discussion, and now
- 97 recognize the ranking member of the subcommittee, the
- 98 distinguished gentleman from New York, Mr. Tonko, for his
- 99 opening statement.
- 100 *Mr. Tonko. Thank you, Mr. Chair. That sounds good.
- 101 Let me start by congratulating you on taking over
- 102 leadership of the subcommittee. I look forward to working
- 103 together in striking progress.
- The United States leads the world in many things.
- 105 Unfortunately, this includes the amount of waste we generate,
- 106 and most of this waste ends up landfilled, incinerated, or
- 107 littered. In recognition of this we have spent more than 50
- 108 years promoting a waste management hierarchy. Every kid
- 109 learns the three Rs: reduce, reuse, and recycle. So while
- 110 today's discussion will focus primarily on that third R, I
- 111 would be remiss if I didn't remind everyone of the needs to
- 112 similarly focus on reduction and reuse as critical components
- 113 to our national waste strategy.
- 114 Today's hearing will cover a wide range of recycling
- 115 challenges facing our country, each of which could be its own
- 116 hearing. But across each of these challenges I believe we
- 117 will see a common thread: the status quo is untenable, often
- 118 creating environmental issues while letting billions of
- 119 dollars of valuable materials go unrecovered.
- 120 I understand the desire to promote innovation to

- 121 overcome these challenges, as suggested by the hearing's
- 122 title. But in reality, our recycling system needs some very
- 123 basic foundational improvements before we can even begin to
- 124 suggest that new technologies will save us.
- 125 More than one quarter of Americans do not have access to
- 126 recycling, and less than one half recycle at home. There are
- 127 glaring needs for better data, accessibility, labeling, and
- 128 education to enable people to feel confident that when they
- 129 use the blue bin correctly, their efforts will actually
- 130 result in real recycling -- by which I mean products are
- 131 ending up in a responsible end market and not being diverted
- 132 to a landfill or downcycled.
- 133 In recent years Congress has tried to address these
- 134 basic needs of our recycling system. The Infrastructure
- 135 Investment and Jobs Act included significant funding for
- 136 state, local, and tribal governments to implement EPA's
- 137 national recycling strategy. Other bipartisan bills like the
- 138 RIAA and RCAA, seek to further support these recycling
- 139 basics. These proposals will not single-handedly fix our
- 140 system, but they do represent good first steps to improve
- 141 data and promote accessibility, and I do hope that the
- 142 coalition-building and policy development that went into
- 143 these bills will make it easier for us to work together
- 144 toward bigger and more ambitious policies in the future.
- 145 Because of the absence of Federal leadership, several

146 states have already begun to create such policies. 147 includes extended producer responsibility, or EPR, laws to 148 require packaging and paper producers to take financial and 149 environmental responsibility for their products. While it is 150 still too early to judge these state laws' effectiveness, we 151 know the intent is to improve recycling services and 152 infrastructure while encouraging greater market demand for 153 recycled materials. 154 These programs' fee structures often include a concept 155 known as eco modulation to further incentivize the use of products that are more sustainable, including products 156 157 designed to be more easily recycled. Designing for 158 recyclability is a common-sense innovation worth encouraging. 159 Similarly, in recent years there have been major improvements 160 in optical sorting, including the introduction of AI to 161 improve recycling facilities' efficiency. But many 162 industries have used the notion of innovation to promote a suite of new technologies commonly known as chemical or 163 164 advanced recycling aimed at transforming hard-to-recycle 165 materials. These are controversial technologies, and not 166 without good reason. While we should not foreclose consideration of any tool 167 168 to address the problems with our waste management system, we must ensure that these technologies actually displace virgin 169

production and do not introduce environmental and public

- 171 health risks. At this stage I have not seen much evidence that these technologies are succeeding by these metrics, with 172 173 much of their output being used as fuels, rather than new 174 recycled products. So before we center the debate on these 175 technologies for hard-to-recycle products, I want to 176 reiterate my belief that we should prioritize our systems 177 more fundamental shortcomings, and consider why so many 178 materials that rely upon proven existing recycling 179 technologies frequently fail to reach even 50 percent 180 recycling rates. Finally, I am glad that members of the majority are 181 182 beginning to recognize the tremendous opportunity for 183 recovery and reuse of critical minerals. For years Democrats 184 on this committee have proposed policies to promote the 185 development of secure domestic supply chains by recovering critical minerals in EV batteries and e-waste. In the IIJA 186 187 we included funding support to support the development of battery recycling best practices and voluntary labeling to 188 189 further this goal, and there is clearly much more that we can 190 do. Moving forward, I would welcome the opportunity to work 191 together to ensure we are maximizing this largely untapped
- 193 And again, my heartfelt congratulations, Mr. Chair. I 194 look forward to working with you.

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resource.

196	[The prepared statement of Mr. Tonko follows:]
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- 200 *Mr. Tonko. And with that I thank you and yield back.
- 201 *Mr. Palmer. Thank you, Mr. Tonko. The Chair now
- 202 recognizes the chairman of the full committee, the gentleman
- 203 from Kentucky, Mr. Guthrie, for five minutes for an opening
- 204 statement.
- *The Chair. Thank you, Mr. Chairman, and good morning,
- 206 members of the Subcommittee on the Environment and to our
- 207 witnesses today. Congratulations, Chairman Palmer, on your
- 208 new role as chairman of the subcommittee. I thank you for
- 209 your leadership this Congress on Oversight, but you
- 210 absolutely have been focused on the issues before this
- 211 subcommittee, as well, and I really appreciate you taking the
- 212 leadership of this, and I really look forward to working with
- 213 you as we look at supply chains, critical minerals,
- 214 investigating the Biden-Harris Administration's
- 215 implementation of the Green New Deal and other programs.
- Our world is constantly changing, and today we will hear
- 217 whether our country's waste management policies will enable
- 218 us to embrace the challenges of the future. For example, we
- 219 are seeing incredible growth in data centers needed to
- 220 support artificial intelligence infrastructure. But will our
- 221 waste and recycling laws allow us to manage an expected
- 222 uptick in electronic waste, and how we can recover valuable
- 223 materials such as critical minerals from items that are
- 224 discarded every day?

225 Additionally, how do we keep the U.S. economy as a 226 global leader in the face of international negotiations that could limit the production and use of plastics and chemicals 227 228 and place U.S. companies at a disadvantage against Chinese 229 and European competitors? 230 I look forward to hearing from our panel of witnesses 231 today, including Mr. Bedingfield from Louisville, on these 232 important questions. 233 While our country is constantly faced with new 234 challenges, thanks to American entrepreneurship and the spirit of innovation we are also presented with new 235 236 opportunities. Improving our recycling infrastructure could 237 enhance our global economic competitiveness and national 238 security. For example, according to the Recycled Materials 239 Association, the recycled materials industry has a nearly 240 \$169 billion economic impact on the United States. 241 technologies involving artificial intelligence and robotics 242 have improved sorting capabilities for recyclable products 243 like paper. Advanced recycling technologies enable the 244 conversion of difficult-to-recycle plastics into new products 245 that improve our quality of life. 246 Today's hearing will provide us with the chance to 247 assess regulatory barriers to the proliferation of new

technologies and strategies to grow our domestic

manufacturing capabilities while keeping valuable materials

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250 out of landfills. 251 And it just makes sense that we take valuable materials, 252 we keep them out of -- we take valuable materials, bury them 253 underground and have them stay there until some future 254 civilization discovers them, or we can put them back in the 255 stream of commerce and make it work today. And so that is 256 important, it is certainly part of our green economy to make 257 sure we recycle our -- the materials that we use. And so I 258 am really looking forward to this hearing, looking forward to 259 working with the chair and my friend from New York, Mr. 260 Tonko, to see if we can find a pathway forward to make this 261 work. 262 [The prepared statement of The Chair follows:] 263 ******************************** 264

- 266 *The Chair. And I appreciate that, and I will yield
- 267 back.
- 268 *Mr. Palmer. The gentleman yields. The Chair now
- 269 recognizes the ranking member of the full committee, the
- 270 gentleman from New Jersey, Mr. Pallone, for five minutes for
- 271 an opening statement.
- 272 *Mr. Pallone. Thank you, Mr. Chairman.
- 273 Today the subcommittee is examining the important topic
- 274 of recycling. Preventing ocean dumping off the Jersey shore
- 275 was what initially inspired me to come to Congress, so I am
- 276 pleased to be discussing ways we can reduce pollution and
- 277 improve recycling in the United States.
- 278 But today's hearing comes weeks after President Trump
- 279 signed the Republican's big ugly bill into law, and this bill
- 280 doubles down on their unconditional support of polluters
- 281 propping up the fossil fuel industry at the expense of clean
- 282 energy, driving up costs for American families and worsening
- 283 the climate crisis.
- And science tells us that to combat the worst effects of
- 285 climate change we need to move away from polluting
- 286 industries, including reducing our reliance on products
- 287 derived from fossil fuels. And recycling is an essential
- 288 tool in our environmental protection toolbox to reduce
- 289 pollution in communities, boost local economies, combat the
- 290 climate crisis, and strengthen domestic supply chains.

- 291 However, with a national recycling and composting rate of
- 292 just 32 percent, it is clear we still face major gaps in the
- 293 recycling system that need to be addressed.
- That said, the story is not the same for all recyclable
- 295 materials. For example, paper and cardboard saw a recycling
- 296 rate of 68 percent in 2018. That is higher than any other
- 297 material. Unfortunately, the same cannot be said for plastic
- 298 waste, where a staggering 76 percent was sent to the
- 299 landfill. And I just think we have to do a lot better.
- 300 These issues are all compounded by the fact that municipal
- 301 solid waste recycling systems are severely underfunded across
- 302 the country. Local governments face tight budgets. And with
- 303 President Trump's outright assault on state funding, budgets
- 304 will now be even tighter.
- We need to invest in our recycling system to see the
- 306 improvements we so desperately need. Democrats recognized
- 307 that need in passing the Bipartisan Infrastructure Law and
- 308 the Inflation Reduction Act. Together, billions of dollars
- 309 were invested to help fill gaps in the recycling system and
- 310 to drive battery collection to grow our domestic circular
- 311 economy for critical minerals. For example, the Bipartisan
- 312 Infrastructure Law included \$275 million for the Solid Waste
- 313 Infrastructure for Recycling Grant program, or SWIFR, to
- 314 bolster recycling infrastructure and help fund improvements
- in communities around the country.

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           Beyond funding, we are also seeing promising
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      developments in recycling policy at the state level.
                                                            Maine,
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      Oregon, Colorado, and others are leading the way by
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      establishing extended producer responsibility, EPR, programs
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      for packaging to help incentivize manufacturers to use
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      recycled content over virgin material. New Jersey has
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      minimum recycled content standards for the sale and
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      distribution of certain products, and I hope this
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      subcommittee will explain -- will explore, I should say --
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      policies like a national EPR framework to improve our
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      recycling system and help provide certainty for
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      manufacturers.
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           There are two bipartisan recycling bills, H.R. 4109, the
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      Recycling and Composting Accountability Act; and H.R. 2145,
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      the Recycling Infrastructure and Accessibility Act, that aim
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      to strengthen recycling and composting systems, improve
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      accessibility in underserved communities, and improve data
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      measurement and reporting. We had a bipartisan and bicameral
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      agreement to pass those bills last year in the end-of-the-
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      year funding package, but as we know, House Speaker Johnson
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      tanked that entire package because Elon Musk voiced his
      opposition to it. I believe these bills are still worth
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      moving, and the Senate Environment and Public Works Committee
      has already advanced them out of committee earlier this year.
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      I believe this committee should do the same.
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341 And finally, while recycling is an important way to 342 address plastic pollution, we must also focus on reducing our 343 use of plastics overall. It is estimated that eight million 344 metric tons of plastic waste enters the world's oceans every 345 That is the equivalent of dumping a garbage truck full 346 of plastic waste into the ocean every minute. This plastic 347 waste can break down into smaller pieces known as 348 microplastics. This is a big deal for my constituents at 349 home on the Jersey shore, as microplastics are polluting the 350 Atlantic and impacting marine life. It is vital that any potential recycling solutions for addressing plastics are 351 352 science-based, economically feasible, safe for communities, 353 and ultimately make recycled products. 354 And in 2015, I wanted to mention I led a president --355 with President Obama, who signed into law the bipartisan 356 Microbead Free Waters Act, which prohibited manufacturers of 357 rinse-off cosmetics from intentionally aiding plastic 358 microbeads. And that law remains the only bill Congress has 359 passed to limit microplastics in our environment. That was a 360 decade ago, and we just have to do more. 361 So like the climate crisis, pollution is a -- plastic pollution is a global problem that warrants ambitious 362 363 cooperation from the international community. The U.S. delegation must continue to be a strong voice at the Global 364

Plastics Treaty negotiations next month. We should not take

366	a back seat or accept weaker standards.
367	[The prepared statement of Mr. Pallone follows:]
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- 371 *Mr. Pallone. So I look forward to the hearing and I
- 372 yield back, Mr. Chairman, thank you.
- 373 *Mr. Palmer. The gentleman yields. We now conclude
- 374 with member opening statements.
- 375 The Chair would like to remind members that, pursuant to
- 376 committee rules, all member opening statements will be made
- 377 part of the record.
- We want to thank our witnesses for being here today and
- 379 taking the time to testify before the subcommittee. The
- 380 witnesses will have the opportunity to give an opening
- 381 statement, followed by a round of questions from members.
- Our witnesses for today are Mr. Ross Eisenberg,
- 383 president of America's Plastic Makers; Mr. Matt Bedingfield,
- 384 president of -- at Mint Innovation; Ms. Keefe Harrison,
- 385 founder and CEO of the Recycling Partnership; and Mr. Dan
- 386 Felton, president and CEO of Flexible Packaging Association.
- We appreciate you being here today.
- 388 Do we swear them in?
- 389 *Voice. No.
- 390 *Mr. Palmer. We don't? Okay.
- 391 We appreciate you being here today. I now recognize Mr.
- 392 Eisenberg for five minutes to give an opening statement.
- 393 *Mr. Eisenberg. Okay.
- 394 [Pause.]
- 395 *Mr. Eisenberg. I will take care of this one for you

396 guys. Thank you, all right.

- 398 STATEMENT OF ROSS EISENBERG, PRESIDENT, AMERICA=S PLASTIC
- 399 MAKERS, AMERICAN CHEMISTRY COUNCIL; MATT BEDINGFIELD,
- 400 EXECUTIVE VICE PRESIDENT OF COMMERCIAL STRATEGY AND GROWTH,
- 401 MINT INNOVATION; KEEFE HARRISON, FOUNDER AND CEO, THE
- 402 RECYCLING PARTNERSHIP; AND DAN FELTON, PRESIDENT AND CEO,
- 403 FLEXIBLE PACKAGING ASSOCIATION

405 STATEMENT OF ROSS EISENBERG

- *Mr. Eisenberg. Well, good morning, Chairman Palmer,
- 408 Ranking Member Tonko, and members of the subcommittee. My
- 409 name is Ross Eisenberg. I am the president of America's
- 410 Plastic Makers at the American Chemistry Council. ACC
- 411 represents the companies that produce the plastics that are
- 412 essential in modern life.
- I want to start by pointing out something that, frankly,
- 414 you have already noted. The stakeholders of this -- at this
- 415 table today who represent very different points on the value
- 416 chain for plastics and other materials, we are saying a lot
- 417 of the same things. I believe we really are at a point of
- 418 policy convergence when it comes to recycling, one that
- 419 probably didn't exist the last couple of times this committee
- 420 examined the topic. I encourage the committee to seize this
- 421 opportunity because maybe, just maybe, there is a pathway to
- 422 making real, substantive, lasting change in the way that we

- deal with plastic waste, and to do it in a constructive,
- 424 bipartisan way. We would certainly support that.
- The U.S. chemicals and plastics sectors are vital to our
- 426 economy. Nearly 27 percent of U.S. manufacturing output is
- 427 in industries that are highly reliant on plastics. The
- 428 plastics industry supports almost 5 million jobs across the
- 429 economy and generates over \$391 billion in wages. We
- 430 maintain a \$21.9 billion trade surplus in plastic resins, so
- 431 we are one of the few industries that actually exports more
- 432 than we import because we -- it is so competitive here to
- 433 make plastic.
- Now, with this large footprint come challenges. And at
- 435 the top of that list, as you have all identified, it is
- 436 waste. Plastic waste does not belong in the environment. It
- 437 is very plainly unacceptable. And ACC and our members are
- 438 committed to ending plastic waste and advancing a circular
- 439 economy for plastics. We are committed to do that because,
- 440 frankly, we need plastics. Modern life does rely on them.
- Plastics help reduce emissions, save energy whether by
- 442 extending the shelf life of food, reducing packaging weight,
- 443 making homes, workplaces, and vehicles more energy efficient.
- 444 Plastics are indispensable in health care and emergency
- 445 response: IV bags, disaster relief, syringes, gloves, masks.
- 446 Plastic packaging protects food, water, and medical supplies
- 447 when cold storage or sanitation is unavailable. So all of

- 448 these things that make modern life possible.
- But as we all know, plastic is just not recycled enough.
- 450 To fix that we have to modernize the way that we collect,
- 451 recycle, and reuse plastic and other materials. We have to
- 452 upgrade a recycling system that was set up in the 1970s for
- 453 bottles, cans, and paper and bring it to 21st century
- 454 standards, including new recycling technologies. So ACC
- 455 encourages the Federal Government to take several strong
- 456 steps.
- Number one, top of the list -- because it is next month
- 458 -- actively engaged the UN Global Plastics Agreement
- 459 negotiations and help arrive at a final agreement this year
- 460 that all countries will support and join.
- Number two, please remove regulatory roadblocks to the
- introduction of some of these innovative new technologies.
- 463 And number three, please work together and advance
- 464 common-sense legislation to help these shared goals.
- 465 So starting with the global agreement, in a few weeks a
- 466 number of us are going to be in Geneva with 170 countries to
- 467 try to arrive at final text of an agreement to address
- 468 plastic pollution. ACC supports a global agreement focused
- on stopping plastic pollution, and we have encouraged the
- 470 U.S. to engage and provide the necessary leadership to help
- 471 land that plane and land a final agreement. We believe
- 472 America can lead the world through championing policies that

- 473 incentivize improved waste management infrastructure and that
- 474 send the right demand signals to spur private investment in
- 475 collection, sortation, and recycling of plastic.
- Here at home we think there are some immediate steps
- 477 that Congress and the executive branch can do to improve the
- 478 infrastructure, as well. One of them is to regulate advanced
- 479 recycling properly. Now, advanced recycling, which we have
- 480 talked about a bit today -- a good explanation of it, one of
- 481 our members says it is like unbaking a cake. Imagine you
- 482 could take a cake, and you could take that cake back down to
- its elements, the eggs, the flour, the milk, the sugar, the
- 484 butter, and then you could make it into a cake again. That
- 485 is advanced recycling. There is a suite of chemical
- 486 technologies that can do it, but that is essentially the
- 487 concept that we have got here.
- 488 Advanced recycling technology is break down post-use
- 489 plastics down to their chemical building blocks, and then use
- 490 them to make new products, including new plastics. They not
- 491 only help keep plastic out of landfills and incinerators and
- 492 our environment, but they help create a more resilient U.S.
- 493 supply chain and well-paying jobs. Advanced recycling can
- 494 process contaminated plastics, difficult-to-recycle plastics
- 495 that mechanical recyclers can't take, and the plastics and
- 496 other sort of harder recycled plastics that you find in the
- 497 economy.

- Now, despite this potential, a number of regulatory
- 499 barriers stand in the way of new advanced recycling.
- 500 Conflicting regulations across states and at the Federal
- 501 level create uncertainty for investors. Every time EPA over
- 502 the past few years proposed a rule, withdrew a rule, even
- 503 talked about a rule, we saw the market chill for new
- investment in this technology because they didn't really know
- 505 if they were going to be able to get their permits. So it
- 506 was getting in the way of the technology and stopping its
- forward progress.
- Now, let me be clear. We believe that advanced
- 509 recycling should be regulated, and we believe it should be
- 510 regulated strongly, but it should be regulated as
- 511 manufacturing, because that is specifically what it is. It
- 512 is a manufacturing facility.
- Finally, we hope Congress will act soon on recycling
- 514 legislation. The bills mentioned earlier, the RIA, the
- 515 composting bill, those are all good bills. We hope to see
- 516 them get over the finish line. We also hope to see re-
- 517 introduction of the Accelerating a Circular Economy for
- 518 Plastic and Recycling Innovation Act, H.R. 9676 -- in the
- 519 last Congress. Dr. Bucshon, retired Dr. Bucshon, and Don
- 520 Davis from North Carolina introduced --
- *Mr. Crenshaw. [Presiding.] Thank you, Mr. Eisenberg.
- 522 If you could, wrap up.

523	*Mr. Eisenberg. Oh, absolutely, sorry.
524	And so my written statement has more on that, including
525	EPR.
526	Sorry for taking so long. Thank you all for doing this
527	I really appreciate the opportunity to do this today. And
528	let's get it on. Thank you.
529	[The prepared statement of Mr. Eisenberg follows:]
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533	*Mr. Crenshaw. I appreciate you being here
534	Mr. Bedingfield, you are now recognized.
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536	STATEMENT	OF	MATT	BEDINGFIELD

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*Mr. Bedingfield. Thank you. I would like to express 538 my appreciation to Chairman Palmer, Ranking Member Tonko, and 539 540 the committee members for having me here today. My name is 541 Matt Bedingfield. I am the president of Mint Innovations. I 542 am honored to have the chance to be here to speak to you 543 today about the state of e-waste recycling in the United 544 States, how we can work together to increase recovery of this 545 material, and the value of doing so.

546 To provide a foundation for this conversation I would 547 like to outline the current e-waste landscape in the United 548 States. We generate approximately seven to eight million 549 metric tons of e-waste each year in this country. Of that 550 volume, more than six million is disposed of in landfills. 551 While this only compromises -- or comprises 2 to 3 percent of 552 landfill volume, it accounts for over 70 percent of the 553 hazardous materials and heavy metals in our landfills. What 554 makes matters worse is these are the materials that are 555 needed to supply the companies that are currently reshoring 556 and driving the current domestic manufacturing resurgence.

Recycling rate aside, we do not have the capacity or capability in our country to recover the metals from the million metric tons that we do recycle. This is all collected domestically and then exported to Asia or Europe to

- be refined and, in many cases, then imported back into this
- 562 country. This does absolutely nothing for the reshored
- 563 companies I mentioned earlier.
- The conventional solution is pyrometallurgical refining.
- 565 These plants have significant emissions, take over five years
- 566 to construct and, in many cases, over \$1 billion in capital
- 567 are more to build out. Mint Innovations has taken a
- 568 different approach by leveraging hydrometallurgy that
- 569 combines chemistry and biology to efficiently recover the
- 570 copper, gold, palladium, silver, and tin from e-waste. Our
- 571 plants cost approximately \$30 million, generate no emissions,
- and take only 12 months to deploy.
- 573 Our first full-scale plant, a first of its kind in the
- 574 world, is located in Sydney, Australia, and the wastewater is
- 575 literally poured down the drain. We are building our second
- 576 plant in Longview, Texas. This plant will consume up to
- 577 8,000 tons of printed circuit boards per year, and will
- 578 recover these metal units to be used domestically in the U.S.
- 579 supply chain. This plant will be online 12 months after
- 580 funding is secured.
- The U.S. is the undisputed global leader in countless
- 582 categories. Recycling and recovering our critical resources,
- 583 metals, and minerals, unfortunately, is not one of them. We
- are not seeking an uneven playing field or a handout.
- 585 However, this committee is uniquely positioned to provide a

586 hand up to our industry, which enables us to compete and to 587 win on an even playing field, long term. 588 This committee and the U.S. Government overall can help 589 in numerous ways, including allocating Federal funding to 590 provide an enhanced education about how and why to recycle e-591 waste; directing funds to states to encourage and incentivize 592 investment in recovery of metals and critical minerals, which 593 are critical to our national security; and prioritizing 594 companies that have a domestic footprint and the capability 595 to recover these metals when issuing contracts for materials generated by the government and its contractors. 596 597 As we think about critical mineral security, the United States cannot and should not rely upon massive government 598 599 grants for singular projects. Those can become single points 600 of failure, depending on company performance, operations, and 601 poor market conditions. Taxpayer dollars should be spread 602 among lightweight, cost-effective, and proven systems of That is what Mint brings to the table. 603 604 I am happy to answer any questions, and I appreciate 605 your attention. Thank you again for the honor of speaking to 606 you today.

[The prepared statement of Mr. Bedingfield follows:]

610

- *Mr. Crenshaw. I look forward to hearing more from you.
- Ms. Harrison, you are now recognized.

614 STATEMENT OF KEEFE HARRISON

- *Ms. Harrison. Chairman Palmer, Ranking Member Tonko,
- Vice Chairman Crenshaw, and the members of the committee,
- 618 thank you for inviting me in today to talk about recycling in
- America and the tremendous opportunity we have ahead.
- I am a 28-year veteran of the recycling system. In the
- 621 early days I ran a recycling truck. Now I work with Fortune
- 622 500 companies on multi-million-dollar investments because I
- 623 believe that this recycling system has so much potential for
- 624 our country. I founded the Recycling Partnership to be a
- 625 public-private partnership. And after one decade we have
- 626 achieved half-a-billion dollars' worth of impact working
- 627 directly with more than 400 communities and recycling
- 628 facilities across the country. That is a billion pounds of
- 629 new recyclables that we have added to the stream.
- In my experience there has never been a moment like now.
- 631 Recycling is at an inflection point. We have huge
- opportunity in front of us, but only if we address the
- 633 challenges that -- in a very real and data-driven way. These
- 634 challenges include that 76 percent of paper and packaging
- 635 materials that are currently in homes, end up in the
- 636 landfill, not in the recycling system. Cheap imports, often
- from Asia, are threatening to upend market dynamics for
- 638 recycling content, putting American jobs at risk. Many

- 639 companies are failing to meet their recycling goals that they
- have set and are responding not by leaning in, but by
- 641 stepping back. And it is estimated that only half of the
- 642 packaging -- plastic packaging that is produced is actually
- even designed for recycling, something that is easily
- 644 fixable. Finally, only 73 percent of our nation's households
- have access to recycling.
- As we have already heard here, recycling matters for our
- 647 economy. It is simple. Our nation's recyclables become
- 648 feedstock for American manufacturing. We can put that to
- 649 work. Fully investing in recycling would deliver huge
- 650 benefits: 200,000 new jobs, more than \$8 billion of
- 651 materials returned to the economy, \$11 billion of savings --
- and taxpayers and local governments who currently foot the
- 653 bill for this. But to achieve these, we need system change.
- Like the title of this hearing, American recycling needs
- 655 to go beyond the blue bin. When we say recycling, it is one
- 656 word but it really means many different things. It is how is
- 657 something designed, it is access. Can the public do it? It
- 658 is participation. Does the public do it? It is
- 659 infrastructure and it is end markets, which means does old
- stuff turn into new stuff? To level up, we must embrace
- 661 innovation. But as we innovate, we cannot lose a hold of
- 662 really what is our why.
- Recycling for the purpose of recycling is not the point.

- We must ground ourselves in science and data and purpose to
- 665 ensure that we are achieving a goal of conserving natural
- 666 resources, building regional economies, and creating
- 667 sustainable, resilient communities.
- Today we are going to talk about chemical recycling, and
- 669 that refers to a broad, wide variety of technologies. It is
- one term, but it means very many different things. Such
- 671 technologies offer great -- they vary greatly in terms of
- 672 what materials they can accept as inputs, what they can
- 673 create as outputs, what is the amount of energy used, the
- 674 impacts on the environment and human health. So before we
- 675 endorse one thing, we really need to get to the heart of
- 676 taking a broad category and turning it into definitions of
- 677 the specific things, asking ourselves questions such as, what
- 678 is the technology? What is the supply chain? How do we make
- 679 the economics work? How do we ensure that we understand the
- 680 environmental and human health impacts? Is it scalable, and
- do we ensure transparency?
- So where do we go from here? Three things are on my
- 683 mind. We need ground decisions and a clear-eyed, data-driven
- 684 view of the recycling system. We must take a systems
- 685 approach, no more silver bullets. And we must support robust
- 686 policies that drive accountability and level the playing
- field for responsible engagement from our U.S. companies.
- 688 The good news is that this committee can take immediate steps

689	to solve the challenges of recycling.
690	First, the committee should mark up and pass the STEWARD
691	Act that puts together two bills that nearly passed last year
692	and supports our rural communities in this country.
693	And second, I urge you all to support the CIRCLE Act,
694	which will launch which will be introduced today and
695	establish a recycling infrastructure investment tax credit.
696	It would reward domestic investment that could create jobs in
697	every state, every district in this nation.
698	So thank you for the opportunity to testify today. I
699	look forward to working with each and every one of you to
700	build a better solution for America.
701	[The prepared statement of Ms. Harrison follows:]
702	
703	********COMMITTEE INSERT*****

705	*Mr. Crenshaw. Thank you.
706	Mr. Felton, you are now recognized.
707	*Mr. Felton. I can't get the mike on. Is it?
708	[Pause.]
709	*Mr. Felton. Yes, thank you.
710	

711 STATEMENT OF DAN FELTON

712

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728

729

*Mr. Felton. Good morning, Vice Chair Crenshaw, Ranking 713 714 Member Tonko, and members of the subcommittee. I am Dan 715 Felton, president and CEO of FPA, the Flexible Packaging 716 Association. Thank you for the opportunity to testify today 717 on Federal support for recycling innovation and economic 718 growth in the U.S. This is a core policy issue for FPA and 719 our members and stakeholders, and we must all work together 720 to craft effective industry public policy approaches. FPA represents flexible packaging manufacturers and 721 722 suppliers with business in the U.S. Flexible packaging is 723 the fastest-growing and second-largest segment of the U.S.

packaging industry, and is produced from paper, film,
plastic, aluminum foil, or combinations of those materials.

It includes bags, pouches, labels, liners, wraps, roll stock,

and other flexible products. Flexible packaging is used for

a myriad of consumer goods, including fresh and frozen food products, personal care items, pet foods, and lawn and garden

730 products. Flexible packaging is also used extensively in the

731 medical device industry to ensure that products like dental

732 instruments, intubation tubes, and personal protective

733 equipment maintain sterility and efficacy before use.

Flexible packaging is one of the most sustainable packaging types, as it reduces water and energy consumption;

736 improves product-to-package ratio; enhances transportation 737 efficiency; minimizes food waste; and reduces greenhouse gas emissions. However, full circularity options for flexible 738 739 packaging are more limited than other packaging formats and 740 materials that have been in the market longer and thus have 741 more mature infrastructure solutions for recycling. But we 742 believe that will not always be the case for flexible 743 packaging, as recycling has always been iterative, regardless 744 of product, format, or material. 745 FPA is deeply committed to solving packaging waste 746 issues and increasing the recyclability and recycling of 747 flexible packaging. We are collaborating with manufacturers, 748 brand owners, recyclers, retailers, waste management 749 companies, and other organizations to continue to make 750 strides towards total packaging recovery. As we collaborate, 751 the following are some key public policy issues covered in 752 greater detail in my written testimony on which FDA is 753 focused and that we believe will help increase flexible packaging recycling through innovation and economic growth, 754 755 and could also benefit from some Federal Government support. 756 First, increase data funding and infrastructure. This 757 includes two bills you have heard mentioned this morning 758 currently before the House Energy and Commerce Committee: 759 the Recycling Infrastructure and Accessibility Act and the 760 Recycling and Composting Accountability Act. FPA encourages

- 761 the committee to pass these bills this year.
- Second, advanced recycling. FPA believes advanced
- 763 recycling is critical for increasing the use of safe,
- 764 recycled content in certain films and flexible packaging,
- 765 particularly for food contact and sterile medical
- 766 applications. Anything the Federal Government can do to help
- 767 support advanced recycling, including classifying it as a
- 768 manufacturing process rather than a solid waste management
- 769 process, will be meaningful.
- 770 Third, recycled content. FPA supports achievable and
- 771 reasonable government requirements that recognize certain
- 772 unique attributes or the need to limit the use of recycled
- 773 content in some flexible packaging. It is also important to
- 774 recognize the distinction between post-consumer recycled
- 775 content and post-industrial recycled content for different
- 776 flexible packaging applications. FPA believes there is an
- 777 opportunity for the government to support and incentivize the
- 778 use of durable products for lower-grade recycled content,
- 779 while supporting research and development for higher grade
- 780 uses.
- 781 Finally, consumers will benefit with more consistent and
- 782 harmonized national requirements on what is considered
- 783 recyclable and how and where to recycle it. However, an
- 784 emerging patchwork of state-level requirements is becoming
- 785 unmanageable and may create interstate commerce issues. FPA

786 supports AMERIPEN's proposed Packaging and Claims Knowledge 787 Act, the PACK Act, that would establish Federal requirements 788 for the labeling of packaging for recyclability, 789 compostability, and reusability, with oversight by the FTA 790 that already maintains jurisdiction over guidance on 791 marketing claims through its Green Guides. 792 Additional public policy issues highlighted in my 793 written testimony include artificial intelligence and 794 extended producer responsibility for packaging. I hope these 795 thoughts from FPA offer some perspective on flexible 796 packaging and what we believe will help support continued 797 recycling, innovation, and economic growth for us and other 798 industries in the U.S. 799 I appreciate that opportunity to appear before you this 800 morning, and I look forward to any questions you may have. 801 Thank you. 802 [The prepared statement of Mr. Felton follows:] 803 *********COMMITTEE INSERT****** 804

805

- *Mr. Palmer. [Presiding.] I thank all of the witnesses
- 807 for their testimony. We will now move to the question and
- 808 answer portion. I now recognize the gentleman from Texas,
- 809 Mr. Crenshaw, for five minutes for his questions.
- 810 *Mr. Crenshaw. Thank you, Mr. Chairman. Thank you to
- 811 all the witnesses for being here. I think we are all on the
- 812 same page. We want to strive to build a more innovative
- 813 economy that incorporates advanced recycling and revitalizes
- 814 American manufacturing, and I think we need two key elements:
- 815 clear rules at home and strong leadership abroad.
- First we have to provide regulatory clarity and
- 817 certainty. This is essential for innovation, for investment,
- 818 and for scaling domestic recycling infrastructure. You can't
- 819 build the future on a regulatory framework that is often
- 820 shaped by climate alarmism instead of common sense.
- 821 Second, I do want to address the -- our global role in
- 822 this. The United States must lead at the negotiating table
- 823 for the Global Plastics Treaty. This is coming up soon.
- 824 That means rejecting production caps and overzealous
- 825 environmental mandates that have clearly hampered European
- 826 industry. We shouldn't be following along with their
- 827 mistakes, and those mistakes have come at the expense of
- 828 human prosperity without an obvious benefit to the
- 829 environment. Our goal should be encouraging innovation and
- 830 reasonable environmental stewardship without handing the

- 831 entire global supply chain to China and our adversaries.
- With that said, Mr. Eisenberg, if I could start with
- 933 you, can you give me just quickly your perspective on what
- 834 our role on American leadership should be at the negotiating
- 835 table for the Global Plastics Treaty coming up? Have you had
- 836 any engagement with the Administration on this?
- *Mr. Eisenberg. Absolutely. Thank you for the
- 838 question.
- *Mr. Crenshaw. I think you need a mike.
- *Mr. Eisenberg. It doesn't turn on when I -- so thank
- 841 you for the question.
- 842 [Audio malfunction.]
- *Mr. Eisenberg. We think they got pretty close at the
- 844 end of last year. There are still a few provisions that are
- 845 needed.
- 846 [Audio malfunction.]
- 847 It is very important that we lead. We, at the last -- the
- 848 U.S. came in at a time of political changes after the
- 849 election. They were engaging with a position that we
- 850 couldn't do in the U.S., we just didn't have the law to
- 851 support it. And the rest of the world knew, right? They saw
- 852 that we didn't have that -- so other countries were stepping
- 853 in and getting [inaudible].
- *Voice. Sorry, this thing is not working.
- 855 *Mr. Eisenberg. Okay. There is literally no light

- 856 here.
- So other countries were leading, and they, frankly,
- 858 weren't doing it in our best interest. So I would recommend
- 859 the U.S. to engage. We hope they will. We think they will.
- 860 Thank you.
- *Mr. Crenshaw. I appreciate that. Maybe those mikes
- 862 are made of recycled materials.
- 863 [Laughter.]
- *Mr. Crenshaw. Mr. Eisenberg, sticking with you, you
- 865 know, we need to address this fact that advanced recycling is
- 866 not classified as a manufacturing process. If it were
- 867 classified as a manufacturing process, what would that do
- 868 specifically? How might it drive manufacturing growth here?
- I mean, it seems that -- obviously, there seems to be
- 870 vast agreement on advanced recycling here. It checks all the
- 871 boxes, it is good for the environment, supports American
- 872 jobs, reduces landfill waste, strengthens our supply chains,
- 873 enhances our competitiveness. So that question is for Mr.
- 874 Eisenberg.
- 875 Mr. Felton, if you could also weigh in, and Mr.
- 876 Bedingfield, with what your company is doing.
- *Mr. Eisenberg. I will be quick. So there are 25
- 878 states in the country that define advanced recycling as
- 879 manufacturing. That is where it is happening. You can look
- 880 at the map, and that is where the starts -- they are. Ohio,

- 881 Pennsylvania, Georgia, Texas, Louisiana, places like that.
- 882 So a Federal definition, we think, would open the rest of the
- 883 country up to that.
- *Mr. Crenshaw. So that is interesting. Mr.
- 885 Bedingfield, is that why you are opening your next spot in
- 886 Texas?
- *Mr. Bedingfield. There are many reasons.
- *Mr. Crenshaw. Well, of course, there is a lot of good
- 889 reasons. Is there a Buc-ee's nearby? I don't know.
- *Mr. Bedingfield. Now, with Texas, about 15 percent of
- 891 the ITAD -- which is ITS at disposition where electronic
- 892 waste is collected -- are located in Texas. The data center
- 893 footprint that is growing, the manufacturing footprint that
- 894 is growing, it is a very business-friendly environment. But
- 895 recycling is -- regardless of how it is defined, it is
- 896 manufacturing as much as many as anything else is --
- 897 *Mr. Crenshaw. But the definition matters legally. And
- 898 was that a reason that your next plant will be in Texas?
- *Mr. Bedingfield. It is not.
- 900 *Mr. Crenshaw. Okay, okay. Would you comment on that
- 901 in my last few seconds, Mr. Felton, on redefining it?
- 902 *Mr. Felton. There we go. I would say -- and I thought
- 903 Ms. Harrison highlighted really well -- there is a lot of
- 904 things to think about when we are talking about recycling.
- 905 From the perspective of recycled content for flexible

- 906 packaging, we can use all sorts of different recycled content
- 907 and at different levels for different products. For food
- 908 contact packaging, medical packaging, the best path forward
- 909 we see is advanced recycling. And I would say that even the
- 910 FDA has acknowledged that through letters of non-objection
- 911 for certain types of food contact packaging has recognized
- 912 chemical recycling. So even at that level we do recognize
- 913 the value of, really, a need for that in certain types of
- 914 packaging applications.
- 915 *Mr. Crenshaw. Okay, I think I got an answer out of
- 916 that.
- 917 I yield back.
- 918 *Mr. Palmer. The gentleman yields. The chair now
- 919 recognizes the ranking member, the gentleman from New York,
- 920 Mr. Tonko, for five minutes for his questions.
- 921 *Mr. Tonko. Thank you, Mr. Chair. I appreciate that
- 922 some members may want to focus on those hard-to-recycle
- 923 materials, but as I stated earlier I really want to try to
- 924 understand some of the basic deficiencies of our recycling
- 925 system. Many materials in many parts of the country that
- 926 aren't considered hard to recycle continue to have what is a
- 927 very low recycling rate.
- 928 So Ms. Harrison, can you help us with the -- diagnosing
- 929 the root causes that make this the case?
- 930 *Ms. Harrison. So when we look at what are the barriers

- 931 to recycling working presently, we -- I think about
- 932 recycling, again, as one word, but it is really a loosely
- 933 connected, highly dependent network. So some of the
- 934 challenges that we face we can put into five categories of
- 935 what would make a healthy one. So if we know where we are
- 936 and we want to get to a good system, what would make a better
- 937 system?
- 938 First we would focus on design. Are things properly
- 939 designed and prioritized for recycling?
- Second, we would work on capture, which means can the
- 941 public do it? And right now the majority of Americans still
- 942 can't recycle at home.
- The third thing we would focus on is participation,
- 944 which means does the public believe and do the activity of
- 945 putting that material into the bin?
- 946 The fourth thing we would focus on is the recovery
- 947 infrastructure. Do we have the material recovery facilities
- 948 to take those recyclables back and send them off to market?
- And the final thing we would focus on is end markets.
- 950 Does old stuff turn to new stuff? And are we prioritizing a
- 951 domestic -- an American -- North American supply chain for
- 952 our American manufacturers?
- 953 *Mr. Tonko. Thank you. So it seems like there is this
- 954 low-hanging fruit that, with some investments in services and
- 955 infrastructure, we can dramatically improve our national

- 956 recycling rates.
- 957 Again, Ms. Harrison, what are your recommendations for
- 958 how we can best improve the recycling of each -- of easily
- 959 recycled materials?
- 960 *Ms. Harrison. So why hasn't it worked to date? It has
- 961 been chronically underfunded. Recycling is on the backs of
- 962 local governments, to -- as materials are made and put into
- 963 the world, then they come to the community to manage with
- 964 what happens next, and that is a cost burden for Americans.
- 965 What I believe would be a better path would be the
- 966 future of extended producer responsibility. EPR laws that
- 967 you are very familiar with, Mr. Tonko, are -- completely
- 968 change the dynamics of recycling in that they prioritize that
- 969 design for a recycling piece, and then they engage the
- 970 producers, the companies that are making the stuff and
- 971 funding the system to make sure that recycling actually
- 972 functions at a high level, the way that it hasn't been.
- 973 *Mr. Tonko. Thank you. And if recycling depends on
- 974 robust end markets to incentivize demand for recycled
- 975 materials, how can policymakers help support the development
- 976 and strengthening of those given markets?
- 977 *Ms. Harrison. Good. The first one is to pass EPR and
- 978 then to -- second is to layer on the conversation about end
- 979 market use.
- 980 So we can -- what does this really mean? Today we are

- 981 talking about domestic innovation, American industry. We can
- 982 use an example of PET, so soda bottles, a common food
- 983 packaging. We see a high number of companies that are
- 984 committed to using recycled content, but we have not invested
- 985 in the U.S. system to really level up the recycling rate. It
- 986 still hovers at 25, 30 percent for those materials, highly
- 987 recyclable materials.
- 988 So where are companies supposed to get the material if
- 989 we are not investing in the supply chain? Well, the answer
- 990 is we have recently seen up to a 300 percent increase of
- 991 import of cheap Asian recycled content, and it is flooding
- 992 the market, putting pressure on our own companies. So that
- 993 would be an example of how we could see this group lean in.
- The other ones would be the CIRCLE Act that I mentioned,
- 995 and that is dropping today.
- 996 *Mr. Tonko. Thank you. And obviously, some of these
- 997 solutions could be implemented at the state or local levels.
- 998 What are the most impactful steps that the Feds can take to
- 999 help stop sending easily recyclable material to landfills and
- 1000 incinerators?
- 1001 *Ms. Harrison. Some steps would be engaging in the
- 1002 global treaty, as we have been discussing; passing EPR, the
- 1003 CIRCLE Act, the STEWARD Act. These are all things that are
- 1004 ripe and ready to go. They are tested, they are data-driven,
- 1005 and they are -- they represent what the public is hungry for

- 1006 -- is a cleaner, serious solution that doesn't put it on
- 1007 their burden to figure out how to make something recyclable.
- 1008 The system works for the public.
- 1009 *Mr. Tonko. Well, according to data from the EPA,
- 1010 recycling rates have largely plateaued in the last 20 years.
- 1011 It is my understanding that part of this plateau is because
- 1012 gains in recycling collection and processing have been offset
- 1013 by increases in the amount of waste generated.
- 1014 *Ms. Harrison. Mm-hmm.
- 1015 *Mr. Tonko. Do you think that recycling ever creates
- 1016 incentives that lead to more waste being produced, or takes
- 1017 the focus away from waste reduction?
- 1018 *Ms. Harrison. I like that you opened with the three
- 1019 Rs. We need to talk about reducing, making sure we are
- 1020 serious about what is being produced; reusing wherever we
- 1021 can. Recycling is a critical component, but it won't -- we
- 1022 can't recycle our way out of that. We have heard this at
- 1023 this -- it is a critical component, but it shouldn't be the
- 1024 solution or the trade-off for making whatever you want.
- 1025 *Mr. Tonko. Well, I thank you so much.
- 1026 And with that I yield back, Mr. Chair.
- 1027 *Mr. Palmer. The gentleman yields. The chair now
- 1028 recognizes the chairman of the full committee, the gentleman
- 1029 from Kentucky, Mr. Guthrie, for five minutes for his
- 1030 questions.

- 1031 *The Chair. Thank you. Thank you, Mr. Chair.
- 1032 And Mr. Bedingfield, I know you had to change your
- 1033 travel plans to be here with us today, and we really
- 1034 appreciate you doing that.
- 1035 So Mint, the company you are with, was founded in New
- 1036 Zealand but is in the process of building an electronic
- 1037 recycling company and in Texas and extracting valuable
- 1038 commodities. And you are looking for other expansion
- 1039 locations. Can you discuss what lead Mint to expand in the
- 1040 U.S., and what growth in data centers in the U.S. will mean
- 1041 for waste recyclers like Mint?
- 1042 *Mr. Bedingfield. Sure. So Texas is the first of what
- 1043 we hope will be many recycling locations in the United
- 1044 States. The market in the United States is quite large, even
- 1045 the market that is recycled right now, but we are dedicated
- 1046 to trying to help increase that recycle rate, as well, which
- 1047 will only make the opportunity even larger.
- 1048 The data center presence in the U.S. presents multiple
- 1049 opportunities and reasons why this is of extreme importance.
- 1050 So there is the metal that is in the data centers that we
- 1051 need to -- my favorite thing to say is we need to plug up the
- 1052 hole in the bucket. So this is not going to let us recycle
- 1053 our way out of it, but we can only import these metals once
- 1054 by recycling them and then using them in our industry here,
- 1055 too. But with the data centers we also need to protect the

- 1056 IP that is in this and the data. So by shredding it, melting
- 1057 it down, and recycling it, reusing it, we solve the
- 1058 cybersecurity risk, we solve the IP risk, and we also return
- 1059 these metals to the domestic supply chain.
- 1060 *The Chair. Okay, thank you. Thank you for that.
- 1061 And Mr. Eisenberg, negotiations for the Global Plastic
- 1062 Treaty started with the focus on reducing plastic pollution
- 1063 and supporting recycling. But during the Biden-Harris
- 1064 Administration negotiations, which are trying to ban plastics
- 1065 and restrict chemicals, can you explain why a plastic treaty
- 1066 should not be used as a backdoor way to regulate chemicals,
- 1067 and how a secure domestic supply chain of chemicals is needed
- 1068 to support the semiconductor, transportation, and other
- 1069 industries?
- 1070 *Mr. Eisenberg. Absolutely, thank you. So this process
- 1071 has been a lot like an NDAA, right? You know, it is going to
- 1072 pass, or you think it has got a pretty good chance to pass.
- 1073 It becomes a bit of a Christmas tree for everybody's
- 1074 ornaments they want to hang on it, and that is exactly what
- 1075 happened.
- 1076 The original assignment was to address plastic
- 1077 pollution, including in the marine environment. It started -
- 1078 the scope started to expand as we went over time to
- 1079 production, chemicals, things of that nature. Chemicals are
- 1080 addressed by a number of other treaties, right, including one

- 1081 that was passed during this process. And so we believe that
- 1082 it is more appropriately handled there, and certainly not in
- 1083 the context of a plastic agreement, particularly because
- 1084 chemicals go in a lot more than just plastic. So if you want
- 1085 to address chemicals, address chemicals in a standalone
- 1086 thing.
- 1087 Certainly on the production side this is really a
- 1088 competitiveness issue for us. We are the second-largest
- 1089 producer. China is the largest, but it is by quite a bit.
- 1090 And so if you start putting constraints on production, it
- 1091 really does threaten our competitiveness. We think let's
- 1092 start with focusing on pollution, the actual goal here, and
- 1093 handle that right now. That will make tremendous strides,
- 1094 including waste management for folks around the world, and
- 1095 actually start to actually create an environment where --
- 1096 with real market signals to actually try to fix
- 1097 infrastructure around the world.
- 1098 *The Chair. Thank you, I appreciate that.
- 1099 Mr. Felton, in your testimony you mentioned that
- 1100 artificial intelligence and robotics are important tools used
- 1101 by facilities to identify and process different kinds of
- 1102 materials for recycling. Can you discuss how these tools are
- 1103 being used to increase the amount and kinds of materials that
- 1104 are recycled and diverted from landfills?
- 1105 And are these tools available for only recycling in big

- 1106 cities, or can they be used in smaller communities?
- 1107 *Mr. Felton. Yes, thank you -- there we go. Thank you,
- 1108 Chairman, for the question.
- 1109 If you take a look specifically at flexible packaging
- 1110 and pouches and films and things when they run through what I
- 1111 call more traditional recycling at a material recovery
- 1112 facility, existing equipment may recognize it if it is flat
- 1113 as a flattened box, a flattened can, or something. With
- 1114 increased intelligence and increased use in artificial
- intelligence and robotics, we are seeing success in
- 1116 recognizing flexible packaging and other materials more
- 1117 precisely within those facilities. And with that then it can
- 1118 be sorted, moved off to the correct bale, as it were, within
- 1119 a recycling facility to then be used in a recycled content
- 1120 manner.
- 1121 In terms of the cost of that, a couple of things I would
- 1122 suggest is I think we will see, as with any emerging newer
- 1123 technologies, the cost will come down over time. I would
- also suggest that I think we will see the opportunity to
- 1125 leverage extended producer responsibility in those states
- 1126 that have programs in place for producers, brand owners, and
- others within the packaging value chain to be -- I won't say
- 1128 forced, but to be recommended to provide funding to that type
- 1129 of technology.
- 1130 *The Chair. Okay, thanks.

- 1131 And so Mr. Harrison, in your -- you focus a lot on
- 1132 households, but I know you have big companies in your group,
- 1133 as well. Can you discuss the work your organization does on
- 1134 the front end to help member companies make packaging and
- 1135 products easier to recycle?
- 1136 *Ms. Harrison. Yes, sir. So my non-profit is funded
- 1137 almost entirely from corporate entities. So when they make a
- 1138 pledge to recycle, we say, great, we want to help you get
- 1139 there. So the work we do is -- really comes down to those
- 1140 five principles of a healthy recycling system, helping them
- 1141 understand that if they want the public to do their part then
- 1142 the companies have to do their part both on design, but then
- 1143 investing in that infrastructure to get it back.
- 1144 The problem has been that -- I am so proud of the half a
- 1145 billion dollars' worth of impact we have made, but we are
- 1146 trying to solve a \$17 billion annual problem. So there is a
- 1147 gap between what we have done, and the companies are asking
- 1148 for policymakers to step in and level the playing field with
- 1149 the EPR policies we are talking about because they want to do
- 1150 more.
- 1151 *The Chair. Okay, thank you. My time is expired and I
- 1152 will yield back. Thank you for your answer. I appreciate
- 1153 it.
- 1154 *Mr. Palmer. The gentleman yields. The chair now
- 1155 recognizes the ranking member of the full committee, the

- 1156 gentleman from New Jersey, Mr. Pallone, for five minutes for
- 1157 his questions.
- 1158 *Mr. Pallone. Thank you, Mr. Chairman, and
- 1159 congratulations on your new post.
- I listened to what Mr. Eisenberg said, and I think I
- 1161 disagree, although I don't want to put words in his mouth,
- 1162 because I do believe that when we talk about the Global
- 1163 Plastic Treaty negotiations we have to shift the economic
- 1164 burden of recycling from consumers and local governments to
- 1165 producers, and I believe it should include measures to
- 1166 address the supply side of a plastic production to help the
- 1167 world get a handle on rampant plastic pollution.
- I mean, as I mentioned in my opening statement, you
- 1169 know, part of the problem is if you put all the burden on,
- 1170 you know, consumers, local governments, and they just don't
- 1171 have the resources to do all this recycling -- and I think
- 1172 that is one of the reasons why recycling rates are going
- down, because of the fact that towns just don't have the
- 1174 resources to do it -- but I don't know that you said that you
- 1175 didn't want any action on producers --
- 1176 *Mr. Eisenberg. Yes.
- 1177 *Mr. Pallone. -- so I didn't want to put words in your
- 1178 mouth.
- I wanted to ask, though, about these final negotiations
- 1180 for the UN Global Plastic Treaty. I know they are in Geneva

- 1181 in August. They are going to have -- hopefully, come up with
- 1182 an agreement because the intergovernmental negotiating
- 1183 committee didn't reach a final agreement last December. So
- 1184 they are trying to develop that now in August. But let me go
- 1185 to Ms. Harrison.
- 1186 Can you please explain why a global plastic treaty is
- 1187 necessary, if you will?
- 1188 *Ms. Harrison. Yes, a global treaty is necessary
- 1189 because this problem is too big for any one company, one
- 1190 country, or one group to solve alone. And this treaty is
- 1191 also important is -- because material flows around the globe,
- 1192 whether that is through a supply chain or through ocean
- 1193 currents.
- We need a global binding treaty to be able to level the
- 1195 playing field so that we have consistent solutions. What
- 1196 does that mean for the United States? It is a tremendous
- 1197 opportunity for us to take this global commitment and bring
- 1198 it home for -- to advance a national EPR approach, to
- 1199 prioritize the material resource conservation, and to drive
- 1200 our economy.
- 1201 *Mr. Pallone. Well, thank you. The problem I see,
- 1202 though, is that, unfortunately, President Trump has a track
- 1203 record of pulling the U.S. out of other international
- 1204 environmental and climate agreements, you know, obviously,
- 1205 the Paris Agreement being the most notable. And I think that

- 1206 cedes U.S. global leadership in the process.
- 1207 So I am encouraged that the U.S. delegation was present
- 1208 at the recent informal discussions, and it is -- but it is
- 1209 still unclear to me how the U.S. delegation will approach the
- 1210 upcoming plastics treaty negotiations. So my second
- 1211 question, Ms. Harrison, is how would meaningful U.S.
- 1212 participation in the plastics treaty negotiations help the
- 1213 U.S. promote American manufacturing, innovation, and job
- 1214 creation?
- 1215 Because, you know, everything has to be taken back at
- 1216 home in terms of our manufacturing, our innovation, our job
- 1217 creation, if you would.
- 1218 *Ms. Harrison. So I have been at every one of these
- 1219 meetings thus far, and it has been fascinating to watch the
- 1220 pieces come together.
- 1221 How this serves the United States is that we are home to
- 1222 some of the biggest companies in the world, and we lead in
- 1223 many areas of innovation. But as my colleague, Mr.
- 1224 Bedingfield said, we are behind in recycling. So if we are
- 1225 not sitting at the table and setting the course for what good
- 1226 looks like in this global treaty, it will not serve our
- 1227 domestic manufacturing, it will not serve our industry, it
- 1228 will not serve our supply chain.
- So whether we go all in or not, my organization is not
- 1230 missing a beat in making sure that we take this opportunity

- 1231 with the global companies who are at the table there, as
- 1232 well, to ensure that we are driving American policy like the
- 1233 ones that we have been talking about today.
- 1234 *Mr. Pallone. I appreciate that. You know, I just
- 1235 think that engaging in these negotiations can really be a win
- 1236 for domestic manufacturing, boost the recycling sector,
- 1237 improve our resiliency.
- 1238 You know, I meet a lot of times with the recyclers and
- 1239 the waste management people, and there are so many different
- 1240 ways, you know, so many new ways and innovative ways of doing
- 1241 things that sometimes are very expensive. And so, you know,
- 1242 it is hard to get local organizations to back it because it
- 1243 costs a lot of money. But there is so much innovation in
- 1244 this field --
- 1245 *Ms. Harrison. Yes.
- 1246 *Mr. Pallone. -- that could really make a difference in
- 1247 terms of our taking a leadership role. So thank you.
- 1248 Thank you all very much. I appreciate it.
- 1249 *Ms. Harrison. Well, if I may --
- 1250 *Mr. Pallone. Yes, sure.
- 1251 *Ms. Harrison. Recycling is all about innovation. In
- 1252 fact, in the -- Chairman Palmer's home state we see a company
- 1253 called KW Plastics that started because they were really
- 1254 making batteries, they had all this plastic left over, they
- 1255 saw an opportunity to make money from that, and now they are

- 1256 the biggest polypropylene recycler in the world. That is the
- 1257 innovation we want.
- 1258 But without policy it will stay a reaction, not a
- 1259 leading function. That is what we stand to gain.
- 1260 *Mr. Pallone. Well, thank you.
- 1261 Thank you, Mr. Chairman.
- 1262 *Mr. Palmer. The gentleman yields. The chair now
- 1263 recognizes the gentleman from Ohio, Mr. Latta, for five
- 1264 minutes for his questions.
- 1265 *Mr. Latta. Well, thank you very much, Mr. Chairman,
- 1266 and also congratulations on your gavel here in committee --
- 1267 in the subcommittee. And so many questions, so little time.
- 1268 If I could start with you, Mr. Bedingfield, in your
- 1269 written testimony you talk about the extended development
- 1270 timelines that are out there, and you mentioned about how
- 1271 long it takes for smelters for -- you know, to get into
- 1272 production. You know, it is almost a decade from the initial
- 1273 design through permitting, construction, and commissioning.
- 1274 And I guess my question will come down on permitting. How
- 1275 long does that permitting take to get a smelter into
- 1276 production and get it online?
- 1277 *Mr. Bedingfield. Forced smelting, it can take a very
- 1278 long time. I recently participated in building a secondary
- 1279 copper smelter in Kentucky. And through partnership with
- 1280 both the state and locals, we were able to do that in a

- 1281 fairly expedited manner. But it is complicated. It can take
- 1282 years in many instances.
- 1283 Luckily, the technology has caught up to where it can
- 1284 pass for those permits, ultimately, but it does face a lot of
- 1285 scrutiny. That is why we are using the hydrometallurgy
- 1286 process, where we actually produce no air emissions. The
- 1287 wastewater that comes out has salt content in it, but it is
- 1288 less salinity than the ocean water. It actually goes down
- 1289 the drain. So for us, the permitting process is quite quick.
- 1290 *Mr. Latta. Well, thank you.
- 1291 Mr. Eisenberg, real quick, you know, your -- reading
- 1292 through your testimony, one of the questions I have is this
- 1293 -- I have about 86,000 manufacturing jobs in my district, and
- 1294 we do a lot of recycling in northern Ohio. And one of the
- 1295 things that, you know, when we are looking at trying to get
- 1296 more people to, you know, put the things back into recycling
- 1297 is this question -- is how far can you ship a product to have
- 1298 it recycled to make it profitable?
- 1299 *Mr. Eisenberg. Well, that is a really good question,
- 1300 and I probably don't have the best answer for you. We could
- 1301 get you a more technical one in the QFRs.
- But, you know, certainly there is interstate commerce of
- 1303 recycled products of sort of -- you know, of waste. And we
- 1304 have seen a number of times that new recyclers are online
- 1305 trying to get, you know, product from somewhere else. One of

- 1306 the challenges that they have on all of the plastic recycling
- 1307 side -- which is a crazy thing to say -- is not enough access
- 1308 to clean plastic to get into the system, which is bonkers,
- 1309 right?
- I mean, we have so much of it, and yet getting it in a
- 1311 very concerted way in is quite difficult. And so that is
- 1312 where we come back to -- and I think all the witnesses kind
- 1313 of agree on this -- if we fix sortation, if we fix
- 1314 collection, of we fix some of those basic services, then we
- 1315 have the supply and we will probably have a lot more folks
- 1316 investing in recycling.
- 1317 *Mr. Latta. Well, because, you know, that is the
- 1318 problem you have, is that, you know, smaller communities --
- 1319 and I know my home city in Ohio, Bowling Green, was one of
- 1320 the first cities back in the 1980s that went into recycling
- 1321 very heavily. But it was also making sure they had a market
- 1322 to be able to get that product to. And we have been
- 1323 fortunate in some areas that have been able to get that
- 1324 there. But then for some other areas it is like, okay, it
- 1325 costs more to ship it than it costs -- than you are going to
- 1326 get out of it. So I think that is one of the things we have
- 1327 to think about, too, is where these centers are going to be
- 1328 located.
- 1329 And if I could just follow up, also in your testimony --
- 1330 because you also brought up about kind of the ABCs of the

- 1331 Federal Government when you are talking about the Federal
- 1332 Trade Commission, the EPA, and, you know, about the
- 1333 uncertainty that has chilled the market. And I think the
- 1334 word -- you used the word "certainty' about twice in about
- 1335 40 words, and that is one of the words we hear around this
- 1336 place constantly is on certainty.
- 1337 And could you just talk about the absolute need to have
- 1338 certainty in business to be able to make sure you can do what
- 1339 you got to do?
- 1340 *Mr. Eisenberg. Sure. We saw it in real time. EPA
- 1341 proposed a rule that was somewhat confusing for the
- manufacturers on how to handle the product that was coming
- 1343 out of the recycling stream at an advanced recycler, and all
- 1344 of a sudden their customers said, well, we don't know if we
- 1345 really can do this anymore because we don't know if this is
- 1346 going to continue. Companies that are looking to build new
- 1347 facilities, same kind of situation.
- 1348 I think the challenge here is that we are dealing with
- 1349 an early-stage commercialization-type industry, and it is
- 1350 moving quickly. And the -- you know, the technology is
- 1351 evolving. The regulations aren't necessarily keeping up with
- 1352 it, and regulators are having trouble understanding it. And
- 1353 so you get strange regulations coming out, people are kind of
- 1354 asking them to do things, asking them to act, and they are
- 1355 acting in ways that maybe are not necessarily all that

- 1356 helpful.
- 1357 And so we really would like either EPA -- frankly,
- 1358 Congress -- to try to settle this once and for all, and
- 1359 basically just level the playing field. We are not saying
- 1360 preferential treatment. Just let us compete, right? I mean,
- 1361 give this thing a shot. Let it develop just like any other
- 1362 technology, and hope that it succeeds.
- 1363 *Mr. Latta. Well, in my last few seconds I think you
- 1364 brought up a good point, is that the regulators have to
- 1365 understand what you are doing and have to know what that
- 1366 technology is.
- And Mr. Chairman, I will yield back the balance of my
- 1368 time.
- 1369 *Mr. Palmer. The gentleman yields. The chair now
- 1370 recognizes the gentleman from California, Mr. Ruiz, for his
- 1371 questions.
- 1372 *Mr. Ruiz. Thank you, Mr. Chairman.
- 1373 In my district Lithium Valley holds one of the largest
- 1374 lithium deposits in the world, a critical resource that can
- 1375 power battery manufacturing and more clean energy in our
- 1376 clean energy future. This region can supply lithium for
- 1377 electric vehicles and battery storage, strengthening the grid
- 1378 and boosting U.S. energy resilience. Lithium Valley is key
- 1379 to securing clean energy leadership, national security, and
- 1380 energy independence.

1381 But we must also prioritize critical mineral recovery and recycling to build a sustainable supply chain. As we 1382 1383 heard in a subcommittee hearing last Congress, recycling is an essential tool in building secure and sustainable critical 1384 1385 mineral supply chains. That is why I am proud that Democrats 1386 invested in this space through the Bipartisan Infrastructure 1387 Law which provided \$35 million for EPA to develop battery 1388 collection best practices and voluntary labeling guidelines; 1389 \$3 billion for battery manufacturing and recycling; and \$3 1390 billion for battery materials processing. 1391 Mr. Bedingfield, can you speak to how critical material 1392 recycling can help both our environment and boost national 1393 security and resiliency? 1394 *Mr. Bedingfield. Sure, thank you for the question. 1395 We are actually developing lithium ion battery 1396 recycling. Right now we are starting in the UK with a pilot 1397 plant to use hydrometallurgy to recover those metals. vision will be that every site in the U.S., once developed, 1398 1399 will also have that technology there. 1400 These metals, if they go into the landfill, leach into 1401 our water. But they are also extremely valuable. So it is

the right thing, it is the profitable thing. And from a

are reshoring, if we don't have these materials here to

national security perspective, with all the companies that we

supply them, we have really done nothing. That is where all

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- 1406 of this begins.
- 1407 *Mr. Ruiz. Yes.
- 1408 *Mr. Bedingfield. So we have to have the metals here.
- 1409 You are right, we cannot recycle our way out of it. The
- 1410 mines are going to take time to build. We must build them,
- 1411 and we must also recycle them so that we don't continue --
- 1412 *Mr. Ruiz. Well, we would love to follow up and talk to
- 1413 you about our efforts in the region to build a full supply
- 1414 chain and recycling of batteries in the -- in my district.
- 1415 Unfortunately, while clean energy drives critical
- 1416 mineral recycling, President Trump and congressional
- 1417 Republicans are attacking the industry through their big,
- 1418 ugly bill. It is a reckless, shortsighted move that
- 1419 undermines our climate goals, our economy, and our national
- 1420 security.
- 1421 I also want to raise serious concerns about chemical
- 1422 recycling, a practice often marketed as a silver bullet for
- 1423 the plastic crisis that we have. In my district waste
- 1424 facilities using this technology have led to harmful health
- 1425 outcomes for residents, and have failed to deliver the
- 1426 promised recycling revolution. Many of these facilities
- 1427 either close soon after opening or do not actually recycle
- 1428 plastics in a meaningful way.
- 1429 Ms. Harrison, I want to be clear on whether these
- 1430 facilities are truly part of the recycling system. If a

- 1431 facility burns plastic using chemical or heated methods and
- 1432 turns that plastic into fuel, do you consider that process to
- 1433 be recycling?
- 1434 *Ms. Harrison. No, fuel alone is not recycling.
- 1435 *Mr. Ruiz. Thank you. I agree, and we must be honest
- 1436 and precise. To be considered true recycling, a facility
- 1437 must turn plastic back into plastic, just like we do with
- 1438 paper. Converting plastic into fuel through chemical or
- 1439 thermal processes is not recycling; it is incineration.
- 1440 We have seen the harm from these misleading practices
- 1441 before in east Los Angeles, Mecca, and the San Joaquin
- 1442 Valley, where hazardous waste sites are often placed in low-
- 1443 income communities of color. In 2010, Mecca, a small farm
- 1444 worker community in the eastern Coachella Valley near where I
- 1445 grew up was exposed to toxic fumes from an unregulated waste
- 1446 facility that was leased on tribal land. For months
- 1447 residents suffered headaches, nausea, nosebleeds, and
- 1448 respiratory issues, especially young children. A local
- 1449 school had to be evacuated. Community members spoke out.
- One mother, Lydia Varga, said, "I am afraid to let my
- 1451 children play outside some days. My kids had to stay indoors
- 1452 all the time.''
- 1453 A teacher, Richard Reyes, shared he felt "very
- 1454 lightheaded, having a hard time concentrating and thinking.
- 1455 I got real shaky. I was very nauseous.''

- Despite hundreds of complaints, action only came after
- 1457 public outrage. This was more than regulatory failure. It
- 1458 was a failure to protect a vulnerable community. And as we
- 1459 move forward with clean energy and battery manufacturing, we
- 1460 must center the needs of our communities, our vulnerable
- 1461 communities, frontline communities, science, and public
- 1462 health, not fault solutions that put profit over people
- 1463 (sic).
- 1464 Thank you, and I yield back.
- 1465 *Mr. Palmer. The gentleman yields. The chair now
- 1466 recognizes the gentleman from Texas, Mr. Weber, for five
- 1467 minutes for his questions.
- 1468 *Mr. Weber. I thank the Chairman. Thank you on your
- 1469 new role.
- 1470 Mr. Eisenberg, I am going to come to you real quick.
- 1471 Reading -- I wasn't here when you gave your testimony, I
- 1472 apologize for that. You said, as president of America's
- 1473 Plastic Makers, you oversee a self-funded group of 19 ACC
- 1474 plastics division member companies -- like we have Dow
- 1475 Chemical, for example, in my district who do a really good
- 1476 job -- who are working together to maximize the value and
- 1477 minimize the waste of one of the most versatile materials on
- 1478 the planet. Are you able to recruit and get more companies
- 1479 to do -- to get on board?
- 1480 *Mr. Eisenberg. Yes.

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            *Mr. Weber. And how do you -- how does that work?
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            *Mr. Eisenberg. So companies have to apply for
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       membership in the ACC in the plastics division. We are
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       separately funded within ACC, but yes, we are able to.
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       take -- we are largely the resin producers, so the folks take
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       it from raw material to plastic pellets. But we also have a
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       number of what we call the value chain members, so the
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       companies that take it from the pellets and turn it into your
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       cups and useful products like that. And then recyclers, so
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       traditional mechanical recyclers and advanced recyclers.
            *Mr. Weber. All right. Well, thank you. I was
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       interested in that. Interesting.
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            I am thankful that this subcommittee is discussing the
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       state of recycling in the U.S. One of my top priorities in
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       this space is working with the industry to introduce the
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       Packaging and Claims Knowledge, PACK, Act of 2025.
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       legislation, as most of you all are going to know, would
       create the framework to establish a consistent national
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       standard for recyclability labeling, avoiding a patchwork of
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       state regulations.
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            Let me be clear. This is not about creating burdensome
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       red tape, so I don't want all the naysayers to start that --
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       going down that path. It is actually about cutting through
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       the red tape to create a uniform, pro-growth regulatory
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framework that helps innovators innovate. It helps consumers

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- 1506 make informed choices, helps industry lead the way.
- 1507 Also, did I mention that the accreditation is voluntary?
- 1508 I want to get that out there. So this legislation would not
- 1509 create any mandate.
- 1510 If we want to beat China, if we want to protect American
- 1511 jobs and reduce waste, then we need to empower American
- 1512 manufacturers to do what they do best: build, grow, and
- 1513 compete. It is not written to score political points, it is
- 1514 written to deliver real results, and aligns the Federal
- 1515 Government's role with industry-driven resolutions.
- 1516 Mr. Bedingfield, I am coming to you. You are building a
- 1517 plant in Texas, in Longview, Texas, the northeast part of
- 1518 Texas, okay? You did mention that there is possibilities for
- 1519 more plants in Texas. Okay, we want you to get those hurried
- 1520 up and done in Texas. What is the status on that plant?
- 1521 *Mr. Bedingfield. Thank you for the question. And yes,
- 1522 if I am able to do my job even halfway, there will be many
- more of these plants constructed.
- The status of the plant right now is we have secured the
- 1525 site, we are taking possession of it, and we have ordered
- 1526 long lead time equipment. We are currently out in the market
- 1527 raising capital to ensure that we can build that one and the
- 1528 next one to two after that. So we are right in the middle of
- 1529 that process right now.
- 1530 *Mr. Weber. Okay.

- 1531 *Mr. Bedingfield. We should have the first operation
- 1532 hopefully up and going by Q1 of 2026, with the plant
- operational by the end of 2026, early 2027.
- 1534 *Mr. Weber. Okay. Well, for number two we are taking
- 1535 applications in Galveston County, just so you know, okay?
- 1536 *Mr. Bedingfield. We are engaging with a lot of
- 1537 different states, and we would love --
- 1538 *Mr. Weber. All right, I love hearing that.
- 1539 Mr. Felton, can you speak to the importance of having a
- 1540 unified national framework for recyclability claims as
- 1541 proposed in the PACK Act, rather than relying on a state-by-
- 1542 state approach? Tell us why that is important.
- 1543 *Mr. Felton. Thank you, Representative Weber, for that
- 1544 question, and I very much appreciate your leadership on this
- 1545 issue.
- 1546 We are absolutely supportive of a Federal standard, and
- 1547 I think you have heard discussion of recycling is very
- 1548 different around the country. You have heard discussion
- 1549 about consumer confusion of what they can recycle, where they
- 1550 can recycle. We believe a voluntary standard at the Federal
- 1551 level, through law, with jurisdiction by the appropriate
- 1552 agency, will help significantly with helping consumers
- 1553 understand how to recycle and where to recycle things. And
- 1554 that will give us an opportunity as an industry to be able to
- 1555 feel support, as it were, for these products that are being

- 1556 recycled, our packaging that is being recycled, and as well
- 1557 the recycled content, right, that we can get from that.
- So we believe the Federal standard on labeling will
- 1559 drive that desire to push for more recycled materials.
- 1560 *Mr. Weber. I appreciate that, thank you.
- Mr. Eisenberg, as you know, my district along the Texas
- 1562 Gulf Coast is the home of many plastic manufacturers. I
- 1563 mentioned our great Dow Chemical that is one of our biggest.
- 1564 These manufacturers are also at the forefront of developing
- 1565 new recycling techniques and infrastructure. Can you speak
- 1566 to how we strike the right balance between emerging recycling
- 1567 methods such as chemical recycling, while still encouraging
- 1568 development and investment in this space?
- 1569 *Mr. Eisenberg. Yes, absolutely, so -- and that is an
- 1570 important point.
- To actually get to the goals that we have set for the
- 1572 country, and to keep, essentially, waste out of landfills and
- 1573 the environment and all these things, you need all of these
- 1574 technologies, right? We need to dramatically scale up
- 1575 mechanical recycling. We need to dramatically invest in and
- 1576 scale up advanced recycling. So it is all necessary.
- 1577 And we need, frankly, a good policy and a sound policy
- 1578 and rules of the road so that companies can feel comfortable
- 1579 investing in this.
- 1580 *Mr. Weber. Yes.

- 1581 *Mr. Eisenberg. If they can, I think they will.
- 1582 *Mr. Weber. Yes. Thank you for that, Mr. -- I
- 1583 appreciate you all being here and your input.
- 1584 Mr. Chair, I yield back.
- 1585 *Mr. Palmer. The gentleman yields. The chair now
- 1586 recognizes gentlelady from Ohio, Ms. Schakowsky, for five
- 1587 minutes for her questions.
- 1588 Illinois, sorry.
- 1589 *Ms. Schakowsky. Yes, thank you. Get my state right.
- 1590 *Mr. Palmer. Jan, I know better.
- 1591 *Ms. Schakowsky. That is right. Let's see. Hold on.
- 1592 Ms. Harrison?
- 1593 *Voice. Yes.
- *Ms. Schakowsky. Ms. Harrison, I want to thank you for
- 1595 the important work that you do, and I hope the work that also
- 1596 really affects me. I have the pleasure of living right on
- 1597 the -- really, right on Lake Michigan. My home is just about
- 1598 a couple blocks down the street. A lot of my district really
- 1599 loves the wonderful lake. I have a home in Michigan City,
- 1600 Indiana, which is right on the lake.
- But I am very concerned that about 22 million -- what is
- 1602 it? Million --
- 1603 *Voice. Pounds.
- 1604 *Ms. Schakowsky. Pounds of plastic are in the lake
- 1605 every year. That is a lot of plastic, and we really need to

- 1606 do something about that as soon as we can. And so I wanted
- 1607 to ask you, what are the things that we can do quickly to
- 1608 make sure that the lake is safer for all people?
- I mean, we are swimming, we are doing everything within
- 1610 the lake, and yet we have this problem that is there so much.
- 1611 So if you could, just tell me what we need to do.
- 1612 *Ms. Harrison. Yes. Thank you for your question and
- 1613 for your commitment to the water. And I live in Providence,
- 1614 Rhode Island, right on the water, too, and I see it every
- 1615 day.
- 1616 So there are three things that come to mind for
- 1617 immediate impact. One is to encourage the U.S. to stay very
- 1618 engaged in the Global Plastics Treaty. The second is to
- 1619 engage with us on the CIRCLE Act, which will be introduced
- 1620 today, which provides tax credits for businesses and creates
- 1621 more opportunity for plastics recycling. And the third one
- 1622 is the STEWARD Act. The STEWARD Act brings forward
- 1623 opportunities for rural communities on recycling. Those are
- 1624 three immediate things that this committee can do.
- 1625 *Ms. Schakowsky. So what are the things that would
- 1626 actually change in communities and make them safer?
- 1627 *Ms. Harrison. Sure. So when we talk about a healthy
- 1628 recycling system, we break it into five parts.
- 1629 We talk about how companies are engaged in what they
- 1630 produce and streamlining what they produce from -- into

- 1631 things that can actually be recycled by your public.
- The second one is bringing better funding for your
- 1633 communities so they are not paying for their recycling
- 1634 system, that we are using EPR to drive a new funding system
- 1635 for it.
- 1636 The third thing is making sure that the public trusts
- and understands and puts that material in the right bin,
- 1638 never litters, never throws away or incinerates something
- 1639 that has so much value, the recycling of it.
- And then the final piece is really making sure that old
- 1641 stuff turns to new stuff, investing in our infrastructure
- 1642 here in the -- in this country.
- 1643 *Ms. Schakowsky. So the Environmental Protection
- 1644 Agency, does it play a role here in what we are seeing in the
- 1645 lakes?
- 1646 *Ms. Harrison. Yes. The EPA has set targets for
- 1647 recycling, which has really developed momentum. It has an
- 1648 opportunity to really bring people together from the public
- 1649 and the private sector. This is not an us versus them
- 1650 situation. This is a bipartisan opportunity to really drive
- 1651 forward solutions.
- So the EPA's goals help align for a common approach, and
- 1653 then the other critical thing that EPA has provided are SWIFR
- 1654 grants, which are dollars that go directly to communities to
- 1655 help improve their infrastructure, to connect with their

- 1656 businesses, and to prevent the pollution that you are talking
- 1657 about.
- 1658 *Ms. Schakowsky. Well, thank you so much. I hope you
- 1659 are having an opportunity to enjoy the lake during the
- 1660 summer. I think everyone ought to do that. And -- but we
- 1661 want to make it as safe as possible and as clean as possible.
- 1662 So thank you for your work.
- 1663 *Ms. Harrison. Thank you.
- 1664 *Ms. Schakowsky. I yield back.
- 1665 *Mr. Palmer. The gentlelady from Illinois yields back.
- 1666 The chair now recognizes the gentleman from Georgia, Mr.
- 1667 Carter, for five minutes for his questions.
- 1668 *Mr. Carter of Georgia. Thank you, Mr. Chairman, and
- 1669 thank all of you for being here today. This is certainly an
- 1670 important subject.
- 1671 We know that recycling is a essential tool to keeping
- 1672 our environment clean and to mitigating streams of pollution
- 1673 and to creating jobs in America. Let's don't forget about
- 1674 that, as well. However, the proposed caps that -- on plastic
- 1675 production by groups such as the United Nations I don't think
- 1676 are the answer. Plastic is essential, and it is essential --
- 1677 I am a pharmacist, a health care professional -- it is
- 1678 essential because of the many lifesaving products that are in
- 1679 the medical field such as personal protective equipment and
- 1680 medical-grade plastic needed for surgery. We all understand

- 1681 that.
- So capping production of plastic is not going to fix our
- 1683 issue. In fact, demand for recycled plastic is outpacing the
- 1684 supply, so we need to focus on fixing confusion, regulation
- 1685 -- confusing regulations surrounding recycling. We also need
- 1686 to support businesses that are putting -- are pursuing
- 1687 cutting-edge recycling technology such as advanced recycling.
- Mr. Eisenberg, let me ask you. Can you tell me about
- 1689 the impact that fostering advanced recycling in the U.S.
- 1690 would have on the economy and on our supply lines?
- 1691 *Mr. Eisenberg. Absolutely. So first things first. On
- 1692 the recycling side, it would make a dramatic impact, right?
- 1693 I mean, the types of plastics that advanced recycling can
- 1694 cover just aren't going to be covered by other types of
- 1695 recycling. So those then get out of landfills, they get out
- 1696 of the environment, and you have made a substantial impact
- 1697 there on the environment.
- On the economic side, our -- my written testimony walks
- 1699 through some of the numbers. But essentially, if you scale
- 1700 this up you are creating municipal jobs, you are creating
- 1701 manufacturing jobs, you are creating sort of all of those
- 1702 follow-on jobs across the supply chain. And just like any
- 1703 other manufacturing industry with a sort of a high multiplier
- 1704 effect on jobs, you are spurring the economy, right? So you
- 1705 can actually do good while you are doing well, and that

- 1706 really is the goal of this, to create essentially an industry
- 1707 around this that is thriving.
- 1708 *Mr. Carter of Georgia. Great. What are some of the --
- 1709 or let me ask you this. Timeliness. You mentioned in your
- 1710 writing that the timelines for obtaining permits are already
- 1711 lengthy, and due to outdated environmental review protocols
- 1712 and inconsistent regulatory framework. What can Congress do?
- 1713 Tell us what we can do to help. Tell us what we can do to
- 1714 fix this issue.
- 1715 *Mr. Eisenberg. I appreciate that. So certainly, there
- 1716 is permitting legislation that is, you know, being discussed
- 1717 almost all -- almost every Congress. But again, right now
- 1718 that would be a good place for this. It would be great if
- 1719 Congress would essentially define advanced recycling as
- 1720 manufacturing, just like there is 25 states in the country
- 1721 that have done that. That would essentially take this issue
- 1722 away from the permitting process. Otherwise, you are
- 1723 essentially injecting uncertainty in the permitting process
- 1724 and making it -- and making those times speed up.
- 1725 Regulating as manufacturing is a pretty significant
- 1726 standard, right? Under the Clean Air Act, under some of
- 1727 these other laws, these are significant controls that are put
- 1728 in place, some of the strictest in environmental law. So we
- 1729 are not saying don't regulate it, just regulate it
- 1730 consistent.

- 1731 *Mr. Carter of Georgia. Okay, got you.
- Mr. Bedingfield, let me ask you, what is e-waste?
- 1733 *Mr. Bedingfield. That is a good question, and it is
- 1734 defined differently in different places. But basically,
- 1735 anything that has got a -- that is electronic, that has a
- 1736 cord on it. So from your vacuum --
- 1737 *Mr. Carter of Georgia. So you are talking about the
- 1738 physical parts of computers and all.
- 1739 *Mr. Bedingfield. Yes, sir. The entire thing is
- 1740 classified as e-waste. The motherboard is a specific part of
- 1741 it, but there is commodities that we can use in this country
- 1742 from the plastic, the aluminum, the steel, all throughout
- 1743 that appliance.
- 1744 *Mr. Carter of Georgia. How are we going -- you know,
- 1745 Georgia is a big home to data centers. And how are we going
- 1746 to be able to handle this? How are we going to be able to
- 1747 handle all this e-waste that is going to be coming from all
- 1748 the AI-driven data centers?
- 1749 *Mr. Bedingfield. Well, that is exactly what we are
- 1750 trying to do. The question is how quickly can we scale it
- 1751 up.
- 1752 So there is a smelter being built in Georgia right now.
- 1753 They are stopping short and I believe exporting the product
- 1754 to be finished in Europe. So it is not adding back to the
- 1755 economy from a metals perspective. Our facilities, we are

- 1756 trying to ramp up as quickly as we can to deal with them.
- 1757 But there are more and more electronics in our lives each and
- 1758 every day, which means this problem is only going to get
- 1759 larger if we don't come up with a way to address it.
- 1760 *Mr. Carter of Georgia. So you say that the smelter is
- 1761 being built in Georgia, but they -- the finished product is
- 1762 being built overseas?
- 1763 *Mr. Bedingfield. They have an existing network of
- 1764 facilities in Europe that actually recovers the metals back
- 1765 to exchange grade metal to be used in industry. There is an
- 1766 intermediate product that will be produced in Georgia.
- 1767 *Mr. Carter of Georgia. Okay. Is that not something we
- 1768 can do over here if we encourage that?
- 1769 *Mr. Bedingfield. It could. And I am not speaking for
- 1770 that company at all, but I would imagine that that is
- 1771 something that they probably consider.
- 1772 *Mr. Carter of Georgia. Okay. Okay, good. Well, thank
- 1773 you all again for being here. This is extremely important.
- 1774 Thank you, Mr. Chairman, and I yield back.
- 1775 *Mr. Palmer. The gentleman yields back. The chair now
- 1776 recognizes the gentlelady from California, Ms. Barragan, for
- 1777 her questions.
- 1778 *Ms. Barragan. Thank you. Thank you, Mr. Chairman.
- 1779 Ms. Harrison, traditional recyclers that sort and
- 1780 process materials or turn old aluminum cans into new ones are

- 1781 regulated as waste management operations with environmental
- 1782 standards to protect nearby communities from pollution. But
- some chemical recycling companies backed by the plastics
- 1784 industry want to call themselves manufacturers instead. That
- 1785 shift would let them dodge stronger environmental protections
- 1786 under laws like the Clean Air Act and the Resource
- 1787 Conservation and Recovery Act, even though many of their
- 1788 facilities are in low-income communities and communities of
- 1789 color that already face high pollution levels.
- 1790 Should chemical recycling facilities have to follow the
- 1791 same environmental standards as other recycling and waste
- 1792 operations?
- 1793 *Ms. Harrison. Thank you.
- 1794 When we talk about chemical recycling, the challenge
- 1795 that plagues me is that it is not one thing. We have given a
- 1796 blanket term to many different technologies. And so I think,
- 1797 if we are going to really address the challenges that you
- 1798 have just outlined, we first need to start with what is the
- 1799 technology and its different types of unbaking the cake, as
- 1800 has been described earlier. So what is the technology? What
- 1801 is the supply chain -- which means how will we -- how -- what
- 1802 would be possible for feeding that plant? What are the
- 1803 health and human impacts, or the human health impacts and
- 1804 environmental impacts of that technology? And importantly,
- 1805 what are the economics?

- 1806 In each of those environmental standards are critical.
- 1807 So I can't answer a yes or no because there is no one thing.
- 1808 This is multiple things that we are talking about.
- 1809 Should we protect our land, our soil, our air? Yes,
- 1810 absolutely. We have to protect our planet. And recycling
- 1811 has to be advantageous to the protection of our planet.
- 1812 *Ms. Barragan. Great. And in your testimony you list
- 1813 important questions that must be answered for chemical
- 1814 recycling. If a chemical recycling facility doesn't meet
- 1815 environmental quality standards, causes unacceptable harm, or
- 1816 is not financially viable, should it be part of our recycling
- 1817 system?
- 1818 *Ms. Harrison. That is the question that we have put in
- 1819 our longstanding position. We want more innovation. We need
- 1820 more types of creating end markets and materials going to end
- 1821 markets. But in order to ensure that they are viable, we
- 1822 have to make sure that they are economically sound,
- 1823 environmentally sound, that there is transparency, and that
- 1824 you can track the material through them.
- 1825 *Ms. Barragan. Great. And recycling only works if
- 1826 people know what goes in the bin. What does the Recycling
- 1827 Partnership's research show that helps reduce confusion and
- 1828 contamination, especially in multilingual communities?
- 1829 *Ms. Harrison. It is very important to address
- 1830 multilingual and diverse communities where they are. It is

- 1831 not a matter just of translating into a different language.
- 1832 It is really coming from a common understanding. So we do a
- 1833 lot of work with the diverse communities all across this
- 1834 country, because who is our recycling demographic? It is
- 1835 every single person of every age and every background. And
- 1836 so ensuring that the recycling system works for all is
- 1837 critical.
- 1838 *Ms. Barragan. Great. And the infrastructure law
- 1839 included major investments in recycling education, outreach,
- 1840 and infrastructure. But the EPA is facing major staff cuts
- 1841 that threaten the effectiveness of the program. Can you --
- 1842 how could that weaken education campaigns like you described?
- 1843 *Ms. Harrison. Many -- some of the tools that the EPA
- 1844 uses to help support community recycling programs are grants.
- 1845 And if you administer grant funding for a community, you need
- 1846 the staff behind it to make sure that the money is managed
- 1847 well.
- 1848 And you can't just throw money at a problem. You have
- 1849 to apply best management practices. If there is not the
- 1850 humans to do the work, the money won't matter, the effort --
- 1851 the goal won't matter.
- 1852 *Ms. Barragan. Right. And finally, research by the
- 1853 Recycling Partnership found that nearly 40 percent of
- 1854 Americans in apartment buildings don't have access to basic
- 1855 recycling. What is blocking better access? And what

- 1856 programs can Congress support to help fix -- to help
- 1857 communities fix it?
- 1858 *Ms. Harrison. Residential recycling in this country
- 1859 has traditionally focused on single family households,
- 1860 leaving multi-family households behind. Why? Some of it
- 1861 comes down to the way that solid waste is managed in
- 1862 communities. Typically, apartment buildings of four units
- 1863 and above -- below are part of the residential -- or the
- 1864 municipal collection. So it is the city that is operating
- 1865 that. Anything that is above four units becomes into a
- 1866 commercial program. So it is out of the jurisdiction of the
- 1867 community, and it has just become this stranded opportunity.
- 1868 So we have leaned in to how we do that, because it is --
- 1869 there is -- this affects every single community and a
- 1870 significant part of the population. But it will take a
- 1871 different solution.
- 1872 *Ms. Barragan. So how do we get to them?
- 1873 *Ms. Harrison. We need more -- we need better policy
- 1874 that -- such as EPR. We need things like the STEWARD Act
- 1875 that pull together resources for rural communities. And we
- 1876 need to make the value of the supply chain work better so it
- 1877 is advantageous to the communities. We will not get there
- 1878 without policy.
- 1879 There is also opportunity for local mandates to ensure
- 1880 that recycling is required in multi-family.

- 1881 *Ms. Barragan. Great. Thank you so much.
- 1882 *Ms. Harrison. Thank you very much.
- 1883 *Ms. Barragan. I yield back.
- 1884 *Mr. Palmer. The gentlelady yields. The chair now
- 1885 recognizes the gentlelady from Iowa, Mrs. Miller-Meeks, for
- 1886 five minutes for her questions.
- 1887 *Mrs. Miller-Meeks. Thank you, Chairman Palmer and
- 1888 Ranking Member Tonko, for holding this important hearing on
- 1889 recycling.
- 1890 As a representative from Iowa, I know firsthand the
- 1891 challenges that rural communities face in accessing recycling
- 1892 services. Over 36 percent of Iowa households lack access to
- 1893 recycling, and that is over 450,000 families. It is an
- 1894 economic and a national security imperative, as well as an
- 1895 environmental issue. Iowa's manufacturing sector depends on
- 1896 recycled materials as feedstocks, yet we are watching China
- 1897 and other competitors purchase our scrap at above market
- 1898 prices while our own factories struggle to source domestic
- 1899 materials.
- 1900 The data shows we are landfilling millions of tons of
- 1901 valuable manufacturing materials every year, materials that
- 1902 should be creating jobs and strengthening supply chains right
- 1903 here in America. In Iowa alone we are capturing less than
- 1904 half of our aluminum cans and only 15 percent of our steel
- 1905 cans, despite having a deposit on aluminum cans. That is not

- 1906 just waste; it is a lost economic opportunity for our
- 1907 manufacturers and increased dependance on foreign suppliers.
- 1908 And this challenge extends beyond traditional materials.
- 1909 Last year my amendment to the NDAA directed the Department of
- 1910 Defense to report on recovering rare Earth elements from
- 1911 electronic waste using acid-free dissolution technology
- 1912 developed by the Ames National Laboratory.
- 1913 We must keep these critical minerals in American hands,
- 1914 not ship them overseas. It is also why I introduced the
- 1915 Recycling Infrastructure and Accessibility Act. RIAA would
- 1916 establish a pilot grant program specifically targeting
- 1917 communities like many in my district, without a recycling
- 1918 facility within 75 miles. It is bipartisan legislation that
- 1919 has earned endorsements from industry leaders -- many of you
- 1920 here today -- and manufacturers who understand that recycling
- 1921 infrastructure is manufacturing infrastructure, and that
- 1922 domestic material supply is economic security. And I urge
- 1923 this committee to pass RIAA.
- 1924 Mr. Felton, are there ways to better utilize our pre-
- 1925 established recycling systems? For example, would a hub and
- 1926 spoke pilot program connecting small towns to establish
- 1927 recycling infrastructure as seen as my -- in my bill, the
- 1928 RIAA, improve recycling without requiring a resource-heavy
- 1929 system overall?
- 1930 *Mr. Felton. Thank you, Representative Miller-Meeks,

- 1931 for your question. And absolutely, the RIAA is another
- 1932 critical tool in the toolbox, if you will.
- 1933 We have -- I never like to hear the phrase "recycling is
- 1934 broken'' in the United States. My belief is recycling is
- 1935 continuing to mature, and always will continue to mature.
- 1936 And the RIAA is a very perfect example, really, of how to
- 1937 increase recycling, give more people access -- a little bit
- 1938 of funding, right, from the Federal Government, but it is,
- 1939 again, another tool in the toolbox, along with a thoughtfully
- 1940 crafted, implemented extended producer responsibility,
- 1941 recycled content requirements which actually drive, don't
- 1942 restrict, packaging. So again, absolutely, that is a tool we
- 1943 need.
- 1944 *Mrs. Miller-Meeks. Thank you.
- 1945 Mr. Bedingfield, we are losing 10.6 billion in critical
- 1946 minerals through e-waste exports. My NDAA amendment last
- 1947 year addressed recovering rare Earth elements from defense
- 1948 electronics. Beyond supporting individual technologies like
- 1949 yours, what broader Federal framework do we need to capture
- 1950 the full value of our e-waste from precious metals to rare
- 1951 Earth elements, and keep those strategic resources in the
- 1952 American supply chain?
- 1953 *Mr. Bedingfield. Sure, and thank you for your
- 1954 leadership in this space. As much as I would like to say we
- 1955 can solve the whole problem, we can't. So the funding that

- 1956 is available right now, directing that to states to be able
- 1957 to incentivize businesses like ours, I think, would drive it.
- 1958 Working with states and local communities to find the need to
- 1959 create the jobs there, to recover the metal that ultimately
- 1960 supplies the businesses that we are bringing back is the key.
- 1961 But the scale is massive. It is going to take a long
- 1962 time to do it, but we must get started.
- 1963 *Mrs. Miller-Meeks. Thank you.
- 1964 And Mr. Eisenberg, we have a Novellus and our iconic
- 1965 facility in our district that rely on secondary aluminum. I
- 1966 also have Gerdau and SSAB, and most people don't realize that
- 1967 98 percent of the steel in the United States is recycled, but
- 1968 they are struggling to source domestic materials. We are
- 1969 seeing China purchase our aluminum scrap at above-market
- 1970 prices, process it, and sell it back to us at a premium. So
- 1971 just asking for you, how does a bill such as the RIAA help to
- 1972 address this issue?
- 1973 *Mr. Eisenberg. Well, so those -- you know, this is the
- 1974 beauty of actually putting Federal dollars and creating pilot
- 1975 programs to improve sort of the accessibility here. There
- 1976 has been so many -- and plastics, frankly, has the exact same
- 1977 problem, right?
- 1978 I mean, I have visited recyclers. And in the town that
- 1979 they are in they don't have blue bins because the
- 1980 municipality can't afford it. And it is -- you sort of see

- 1981 this really strange dynamic. So you absolutely -- I mean, it
- 1982 is something that could use Federal attention. I really
- 1983 appreciate you doing this. We strongly support the RIAA and
- 1984 think it is a bill that really could make a big difference
- 1985 here.
- 1986 *Mrs. Miller-Meeks. Thank you very much. My time has
- 1987 expired.
- 1988 I yield back.
- 1989 *Mr. Weber. [Presiding.] The gentlelady yields back.
- 1990 The gentleman from Florida is now recognized for five
- 1991 minutes.
- 1992 *Mr. Soto. Thank you, Chairman.
- 1993 Every week millions of central Floridians recycle, the
- 1994 blue bin that we have been talking about already. But we
- 1995 face some challenges in central Florida, particularly with
- 1996 glass. We see Orange County, the biggest county, is able to
- 1997 recycle glass. They have 20 recycling centers, a 72 percent
- 1998 recycling rate. But mid-size counties like my home county of
- 1999 Osceola County and also Polk County don't have glass
- 2000 recycling. We have applied for some grants. It hasn't
- 2001 worked out.
- Obviously, glass has been recycled for thousands of
- 2003 years -- I mean, I was looking into this -- back to, like,
- 2004 the Roman Empire, right? So Ms. Harrison, how do we improve
- 2005 the ability for mid-sized and small counties to do glass

- 2006 recycling, something that has been done for so long in human
- 2007 history?
- 2008 *Ms. Harrison. Rural communities need extra support
- 2009 because recycling is a critical mass exercise. When you have
- 2010 enough of a like thing that you can turn into something new,
- 2011 you can make a profit. It is -- that is an extra burden for
- 2012 smaller communities because, one, they have less to collect
- 2013 and, two, further to ship. So the STEWARD Act is exactly
- 2014 this type of legislation that would help solve this sort of
- 2015 problem.
- 2016 One of the questions that we heard earlier is, does
- 2017 transportation impact the value of a material? When it comes
- 2018 to things like glass, glass has a smaller radius with which
- 2019 it can move before the cost of transportation exceeds the
- 2020 value of return. When we establish that only economic
- 2021 drivers fuel recycling, it is -- we are only going to recycle
- 2022 it if it is making money, we are limiting ourselves for the
- 2023 important environmental and community impacts that would
- 2024 impact that. So glass is a great example for your community.
- 2025 *Mr. Soto. Would that legislation address things like
- 2026 breakage or contamination that I know seem to be some of the
- 2027 obstacles to glass recycling?
- 2028 *Ms. Harrison. Glass is infinitely recyclable. It is -
- 2029 for thousands of years, absolutely right. And so it is
- 2030 best when it is kept whole, but it can still be recycled as

- 2031 broken pieces.
- But yes, can it affect that? By engaging the public you
- 2033 can reduce the contamination. So we want to keep non-glass
- 2034 materials out of glass, for example, and then keep it as
- 2035 whole as possible. And reducing transportation would help
- 2036 with that, too.
- 2037 *Mr. Soto. Thank you. Recently the Corsair Group has
- 2038 reached out to local governments like St. Cloud and Poinciana
- 2039 and Osceola County. They are out of Europe, and have strict
- 2040 regulations they follow especially in places like Finland
- 2041 that apparently have some of the highest in the world to do
- 2042 pyrolysis, which is a heated, oxygen-free environment where
- 2043 they put plastics in it and run gases through wet scrubbers
- 2044 to prevent air pollution and change the smoke into oil to
- 2045 make gas, diesel, kerosene, and new plastics.
- 2046 Mr. Eisenberg, are you familiar with the pyrolysis
- 2047 technique? And do you have any opinions or recommendations
- 2048 for our local communities, as well?
- 2049 *Mr. Eisenberg. Yes, I -- yes, thank you. Yes, I do.
- 2050 Ms. Harrison said there is sort of a variety of different
- 2051 technologies. Pyrolysis is probably the dominant technology
- 2052 for advanced recycling right now. There is solvent-based
- 2053 ones and depolymerization, things like that. But pyrolysis
- 2054 is the one that I think most of the advanced recyclers now
- 2055 are using.

- 2056 And every company does it differently. You know, this 2057 is an area where, you know, certainly they are responding --2058 from what you just said, they are obviously aware of the 2059 footprint that they have, and they are aware of -- that they 2060 do produce emissions and things like this. And so, you know, 2061 hold them to it, right? They -- you know, make sure that 2062 they are, you know, keeping track of what their emissions 2063 are.
- The vast majority of our members that are doing this are very happy to sort of open up and show you their books and say this is what we are putting out into the environment.

 They want to be good neighbors, right? I mean, they are there to make a difference.
- 2069 That being said, the emissions from these facilities is 2070 largely pretty darn low. They are often permitted as 2071 synthetic minor sources because they really are putting out 2072 things that are on the scale of like a hospital or something 2073 like that. But like any other manufacturer that moves to 2074 your district, you should, you know, make sure that they are 2075 permitted correctly and are complying with all their air, 2076 water, waste permits. And hopefully it works out well. It 2077 is a great technology, and something that we really think has 2078 a lot of promise.
- 2079 *Mr. Soto. We all recognize there is a ton of plastic 2080 out there, but it is recyclable and we can recycle a lot of

- 2081 it. How to do it most cleanly and efficiently is something I
- 2082 think we are all trying to grapple with here. And then, of
- 2083 course, the potential jobs resulting from it.
- 2084 We benefit in central Florida from a lot of wind. There
- 2085 is no mountains. There is -- we are surrounded by water on
- 2086 all sides, so air quality is something that we haven't had to
- 2087 stress about as much. But I know different communities are
- 2088 going to look at different technologies to see what is the
- 2089 best fit.
- 2090 I appreciate the advice, and I yield back.
- 2091 *Mr. Weber. The gentleman yields back and the gentleman
- 2092 from Pennsylvania is now recognized for five minutes.
- 2093 *Mr. Joyce. Thank you, Mr. Chairman and Ranking Member
- 2094 Tonko, for holding this important hearing, and to our panel
- 2095 for being with us here this morning.
- 2096 If you look around the room where we are holding this
- 2097 hearing, you will see laptops, you will see cell phones, you
- 2098 will see cameras, you will see TV monitors and many other
- 2099 pieces of technology. When all of these products are
- 2100 eventually replaced -- and often it is sooner than later --
- 2101 they will become electric waste, the e-waste that we are
- 2102 discussing.
- 2103 With the continued increase in the amount of this
- 2104 technology we use each and every day, the creation of e-waste
- 2105 has rapidly accelerated. Efficient recycling of e-waste is

- 2106 not only made difficult because of the amount of waste
- 2107 produced and how it is outpacing existing recycling
- 2108 infrastructure, but also the fact that we have new technology
- 2109 requiring innovation in the actual methods of that recycling.
- 2110 The e-waste problem is only projected to get worse. As
- 2111 I have discussed extensively on this committee, the data
- 2112 centers needed to support AI are very resource intensive, and
- 2113 that intensiveness is requiring technology. The technology
- 2114 for the data center operations will need to be regularly
- 2115 advanced and updated, and the potential to add millions of
- 2116 additional tons to e-waste each and every year. It is
- 2117 estimated that in the United States alone nearly 10 billion
- 2118 in e-waste is discarded each year. Much of the value of this
- 2119 comes from critical minerals, minerals that we already lack a
- 2120 sufficient domestic supply of. If we want U.S. leadership in
- 2121 this technology and AI, we need to do a better job at
- 2122 recycling some of these materials.
- 2123 Mr. Bedingfield, in your written testimony you stated
- 2124 that only 15 to 20 percent of e-waste generated in the U.S.
- 2125 is processed through certified recycling channels. What is
- 2126 happening to the rest of it?
- 2127 *Mr. Bedingfield. That is a great question, and I agree
- 2128 with all your comments. Thank you for them. It is going to
- 2129 the landfill. And many of the heavy metals that actually
- 2130 have a lot of value -- the gold, the palladium, the silver,

- 2131 the tin, the copper -- are leaching into the ground.
- One thing we are extremely excited about is this seems
- 2133 to be one of the few bipartisan issues that people can wrap
- 2134 their mind around. Whether it is sustainability, national
- 2135 security, supply to all of our domestic manufacturing, there
- 2136 is something everyone here can get their -- get behind.
- 2137 *Mr. Joyce. What countries are currently the leading
- 2138 recipients of the e-waste that is not recycled here?
- 2139 And should the lack of domestic processing of this waste
- 2140 concern us?
- 2141 *Mr. Bedingfield. The lack of domestic processing
- 2142 should absolutely concern us.
- 2143 As I said before, all the companies that are coming here
- 2144 for manufacturing, they need raw materials. If we don't have
- them here, then we have really not done much by reshoring
- 2146 them. So having that full supply chain here is critical.
- 2147 The countries we are exporting to right now have this
- 2148 infrastructure, and they are in Europe and they are in Asia.
- 2149 *Mr. Joyce. Mr. Bedingfield, as we continue to develop
- 2150 the technologies for recycling e-waste and work to deploy
- 2151 them, what role can the Federal Government play in helping to
- 2152 manage the waste until we have those capabilities?
- 2153 *Mr. Bedingfield. Until we have those capabilities it
- 2154 is very difficult because you can't stockpile as much
- 2155 material as you are talking about. There is -- there are

- 2156 significant stockpiles already within the government. There
- 2157 is up to a seven-year backlog of classified assets within our
- 2158 military departments that we are trying to find a solution
- 2159 for. So directing those materials to domestic companies with
- 2160 domestic capabilities helps to build the business cases to
- 2161 get the investments that we need to drive the capabilities
- 2162 here.
- 2163 *Mr. Joyce. Thank you.
- 2164 Mr. Felton, in your written testimony you discussed
- 2165 medical device packaging, the packaging that we see around IV
- 2166 solutions or syringes, or around isolation gowns. How can
- 2167 industry work with hospitals to solve the packaging and
- 2168 plastic waste which we know has only increased since the
- 2169 COVID-19?
- 2170 *Mr. Felton. Thank you for your question,
- 2171 Representative Joyce, and I would say there is a couple of
- 2172 ways to sort of tackle that problem.
- 2173 It could be considered business-to-business recycling,
- 2174 right? So in instances in hospitals and other commercial
- 2175 settings, there may be systems already established to recover
- 2176 those materials and put them back into other products, have
- 2177 them be recycled. It is significant impact from the flexible
- 2178 packaging industry. Pharmaceutical medical is about 16, 17
- 2179 percent of the flexible packaging industry in the U.S.
- 2180 So I think B2B is important, and then look for

- 2181 opportunities to do public-private partnerships and also
- 2182 potentially even extended producer responsibility done
- 2183 responsibly. Oregon's program, for example, doesn't only
- 2184 cover residential recycling, it covers commercial recycling.
- So, you know, if the programs move forward in the States
- 2186 and we can have the ability to do some more partnerships so
- 2187 that industry can be getting those materials back, we would
- 2188 find that a benefit.
- 2189 *Mr. Joyce. Thank you, Mr. Felton, and thanks to all of
- 2190 our witnesses for appearing today.
- 2191 We do have an opportunity to create a more efficient
- 2192 technology supply chain by leading the way in e-waste
- 2193 recycling. These are valuable resources if we support the
- 2194 innovative recycling infrastructure necessary to process them
- 2195 and to retain them.
- 2196 Thank you, Mr. Chairman, and I yield back.
- 2197 *Mr. Joyce. The gentleman yields back. The gentleman
- 2198 from Ohio is recognized for five minutes.
- 2199 *Mr. Landsman. Thank you, Mr. Chairman, and thank you
- 2200 all for being here today. I wanted to do a couple of things.
- 2201 One is just underscore -- which has been done, but -- the
- 2202 economic impact, the -- just the overall impact of recycling
- 2203 in the United States. The EPA's Recycling Economic
- 2204 Information report found that recycling contributes to
- 2205 681,000 jobs, \$3,738 million in wages, and about \$5.5 billion

- 2206 -- \$5.5 billion -- in tax revenue.
- 2207 Ms. Harrison, can you talk a little bit about the
- 2208 recycling industry's impact on manufacturing and economic
- 2209 security?
- 2210 *Ms. Harrison. Yes, I expect that there will be a
- 2211 number of staffers from the Recycling Partnership watching
- 2212 this today, and a lot of them are from Ohio, so you have got
- 2213 big fans.
- 2214 *Mr. Landsman. Right.
- 2215 *Ms. Harrison. And they want to hear the questions that
- 2216 you are asking right now, because recycling has long been
- 2217 felt -- you know, we teach it in schools, but it is like a
- 2218 feel-good thing --
- 2219 *Mr. Landsman. Yes.
- 2220 *Ms. Harrison. -- of, like, do your part in recycling.
- 2221 It is really about domestic supply chain. It has always been
- 2222 about creating fuel for U.S. manufacturing.
- 2223 *Mr. Landsman. Yes. And so can -- talk a little bit
- 2224 about the importance of the data and all of this, the -- and
- 2225 improving data availability for strengthening this system.
- 2226 *Ms. Harrison. Yes, recycling has long been woefully
- 2227 under-dated. I think that is a real word.
- 2228 *Mr. Landsman. It is.
- 2229 *Ms. Harrison. And that ambiguity has led to wishful
- 2230 thinking, has led to green-washing, but it has also led to a

- 2231 missed opportunity to do the work that matters most.
- 2232 The Recycling Partnership for 11 years has worked to
- 2233 document what is produced in the household. We actually do
- 2234 studies where we participate with communities to study what
- is in community trash cans and recycling so we can really
- 2236 measure what is there. Then we can map how it is getting to
- 2237 market. By having that data we see where the gaps are so we
- 2238 can have a detailed application of what works in Ohio versus,
- 2239 say, Tennessee. And we are able to create a prescription for
- 2240 how we meet the community with what they need most and serve
- 2241 the businesses in those locales.
- 2242 *Mr. Landsman. And they -- this is a bipartisan, you
- 2243 know, issue, both recycling but also the data as we try to
- 2244 collectively get better.
- The two bills, the Recycling and Composting
- 2246 Accountability Act and Recycling Infrastructure and
- 2247 Accessibility Act of 2025, would help to bolster recycling
- 2248 data and measurement as well as accessibility. These two
- 2249 bills were in the final spending package, and so this is --
- 2250 it is important, I think, as we approach the next spending
- 2251 bill, to appreciate all of the things that got pulled out.
- 2252 These two bills were pulled out. Can you talk a little bit
- 2253 about the impact these two bills would have?
- 2254 *Ms. Harrison. Yes. This committee has the opportunity
- 2255 to mark them up and put them together in the STEWARD Act, and

- 2256 that would serve primarily rural, but all communities with
- 2257 solutions. It would drive forward opportunities for small
- 2258 manufacturing and large, and there is an opportunity to do
- 2259 that right now. So the STEWARD Act is an immediate step this
- 2260 group can take, and then the CIRCLE Act that is being
- 2261 introduced today is the next one.
- 2262 *Mr. Landsman. Yes, STEWARD, CIRCLE, and potentially,
- 2263 as part of a final, you know, end-of-year spending package.
- 2264 But I hope this committee pursues that bipartisan work,
- 2265 getting it on the floor, getting in something that is moving,
- 2266 STEWARD or otherwise, and making sure this gets done finally,
- 2267 since we didn't get it done last year. Thank you all --
- 2268 *Ms. Harrison. Thank you.
- 2269 *Mr. Landsman. -- very much.
- 2270 I yield back.
- 2271 *Mr. Palmer. [Presiding.] The gentleman yields. The
- 2272 chair now recognizes the gentlelady from Tennessee, Mrs.
- 2273 Harshbarger, for her questions.
- 2274 *Mrs. Harshbarger. Well, if I -- microphone on -- can
- 2275 you hear me?
- 2276 *Voice. Yes.
- 2277 *Mrs. Harshbarger. Good. Thank you, Mr. Chairman, for
- 2278 allowing me to waive on, and thank you to the witnesses for
- 2279 being here today.
- 2280 You know, we use plastic in everything. I mean, we

- 2281 store our food that way, we use it in medicine. You don't --
- 2282 you can't walk into my pharmacy and not see syringes or
- 2283 anything like that. I mean, we use a lot of plastic. But
- 2284 when we are talking about the future of plastics, we need to
- 2285 work towards making a more circular economy.
- 2286 And my district is home to Eastman Chemical Company, and
- 2287 it is the largest dedicated advanced recycling facility in
- 2288 the world. And in Kingsport, Eastman has been taking
- 2289 plastics that normally would go into the landfill and then
- 2290 instead use the materials -- the material recycling process.
- 2291 And they can convert and create new plastic materials that
- 2292 have the same quality integrity as plastics that were made
- 2293 directly from petrochemicals. And to Mr. Bedingfield's
- 2294 point, it keeps those plastics out of the landfill from
- 2295 leaching out microplastics. There is a lot of health
- 2296 concerns when it comes to that.
- 2297 So when I think about this, I think it is important to
- 2298 weigh the economic opportunities for our country, and it is
- 2299 possible to direct U.S. policy to provide incentives that
- 2300 will build these advanced recycling facilities in the U.S.
- 2301 instead of overseas in China. And we can bolster confidence
- 2302 in the domestic recycling system. And I think you will see a
- 2303 lot more onshore manufacturing that brings domestic jobs and
- 2304 investment to our country.
- 2305 Mr. Felton, I quess I will ask you this. What plastics

- 2306 are generally recycled, I guess, the most today?
- 2307 And what are the barriers to recycling a broader range
- 2308 of those plastics currently in use?
- 2309 *Mr. Felton. Thank you, Representative Harshbarger, for
- 2310 your question.
- 2311 Generally speaking, if you look at -- if you think of
- 2312 the resin identification codes on products, including
- 2313 packaging, they are generally one through seven, generally
- 2314 speaking, one and two. So even a bottle like this may be
- 2315 more recyclable. Many of those others are -- those others,
- 2316 three through seven, are recyclable. It needs the
- 2317 infrastructure behind it and the opportunity to recapture
- 2318 that.
- 2319 And advanced recycling, as you have mentioned, is one of
- 2320 those examples for particular types of recycled plastics to
- 2321 be able to move them back to full circularity. And that is
- 2322 why FPA is supportive of that.
- 2323 And I think also looking at the opportunities for
- 2324 specific packaging applications as you recycle those plastics
- 2325 -- you mentioned pharmaceutical, medical devices --
- 2326 *Mrs. Harshbarger. Yes.
- 2327 *Mr. Felton. -- food contact.
- 2328 *Mrs. Harshbarger. Yes.
- 2329 *Mr. Felton. It is critical. Companies are trying to
- 2330 use as much -- less virgin plastic, more recycled content,

- 2331 but they need pathways forward to do that --
- 2332 *Mrs. Harshbarger. Yes.
- 2333 *Mr. Felton. -- different collection methods, as Ms.
- 2334 Harrison has suggested, also different recycling methods.
- 2335 *Mrs. Harshbarger. Yes, that is why I think circular
- 2336 recycling is the bomb.
- 2337 *Mr. Felton. Yes.
- 2338 *Mrs. Harshbarger. Well, how does advanced recycling
- 2339 improve the recycling system in the U.S., I guess, and what
- 2340 are the steps that need to be taken to make those
- 2341 technologies complementary to the existing technologies that
- 2342 are deployed?
- 2343 *Mr. Felton. Yes, thank you for that question.
- I would say one of the things to be thinking about is
- 2345 collection. We have, you know, what we typically call
- 2346 traditional recycling at curbside.
- 2347 *Mrs. Harshbarger. Yes.
- 2348 *Mr. Felton. Absolutely, we need that. The flexible
- 2349 packaging industry needs and wants it, but we need other
- 2350 methods, as well, right? We want store drop-off, we want
- 2351 depots, we want subscription services. And all those
- 2352 different types of abilities, ways to collect packaging and
- 2353 other products are meaningful to contribute to that full
- 2354 circularity.
- 2355 *Mrs. Harshbarger. Yes, exactly. You know, we have

- 2356 seen periodic efforts, I guess, to increase recycling
- 2357 infrastructure domestically. You see them here, you see them
- 2358 there. There is not really a defined path. But policies are
- 2359 needed to see a nationwide improvement in these recycling
- 2360 rates and the development of infrastructure that can address
- 2361 the plastic being used by Americans today. Do you agree,
- everybody?
- 2363 I mean --
- 2364 *Mr. Eisenberg. Yes.
- 2365 *Mrs. Harshbarger. I just -- look, if anybody wants to
- 2366 throw anything in that I haven't covered, but I am all about
- 2367 recycling. But we can go to infinity and beyond with some of
- 2368 these plastics that you recycle over and over and over, and
- 2369 we can get away from some of the petrochemicals. Anybody got
- 2370 anything to add?
- 2371 Yes, ma'am.
- 2372 *Ms. Harrison. So the example of the Kingsport Eastman
- 2373 facility is a good one to bring innovation, American industry
- 2374 at its best. What it needs most, though, is protection to
- 2375 make sure that companies are using that high-quality recycled
- 2376 content that you talked about, and ensuring that it is not
- 2377 getting displaced by cheap imports that could disrupt the
- 2378 momentum that you are talking about. So that is an area that
- 2379 we would love to see your help leaning in.
- 2380 *Mrs. Harshbarger. Well, that is what I am working on.

- 2381 So thank you all.
- 2382 And I will yield back, Mr. Chairman.
- 2383 *Mr. Palmer. The gentlelady yields back. The chair
- 2384 recognizes the gentleman from New Jersey, Mr. Menendez, for
- 2385 five minutes for his questions.
- 2386 *Mr. Menendez. Thank you, Chairman.
- I am always proud to represent New Jersey, especially
- 2388 since it has been a national leader on extended producer
- 2389 responsibility, or EPR, laws which shift accountability for
- 2390 product recycling from households and municipalities to our
- 2391 industry partners. In 2024 New Jersey passed the first-of-
- 2392 its-kind EPR law for electric vehicle batteries to
- 2393 incentivize recycling and sustainable management of EV
- 2394 batteries, and ultimately advance vehicle electrification.
- 2395 EV batteries contain valuable materials, and collecting
- 2396 and recycling batteries helps us conserve resources while
- 2397 reducing harm to human health and the environment. New
- 2398 Jersey's EPR law for EV batteries is just one example of how
- 2399 EPR can be applied in innovative ways to solve many types of
- 2400 waste issues.
- 2401 Mr. Bedingfield, you mentioned in your testimony that
- 2402 Mint's platform is expanding to lithium ion battery
- 2403 recycling. How can recovering and recycling critical
- 2404 materials from EV batteries help promote a circular supply
- 2405 chain for American manufacturers?

- 2406 *Mr. Bedingfield. Thank you very much for that
- 2407 question.
- 2408 So first of all, there is a difference. We do recycle a
- 2409 lot of materials, and it is processing and getting things
- 2410 down to commodity level. But then many of those processes
- 2411 and the process -- or the material that comes out of lithium
- 2412 ion batteries is called black mass. We don't have the
- 2413 processes here in many instances to recover it back to the
- 2414 cobalt, lithium, nickel that comes out of that to be able to
- 2415 be reused. That is what is being exported.
- 2416 So the process that we are developing actually recovers
- 2417 it so that we can feed those right back into the businesses
- 2418 that are based here in the country to make new batteries. So
- 2419 that is the key, is finishing that loop. You know, the
- 2420 collecting is only step one. Then we have to be able to
- 2421 recover the metals to be reused here.
- 2422 *Mr. Menendez. For sure, I appreciate that. And
- 2423 obviously, that will have immense benefits for our supply
- 2424 chain as we continue to have more domestic manufacturing of
- 2425 EV vehicles. Is that correct?
- 2426 *Mr. Bedingfield. Yes, sir.
- 2427 *Mr. Menendez. Yes.
- 2428 *Mr. Bedingfield. It is only growing.
- 2429 *Mr. Menendez. And it is important that we foster
- 2430 circularity to reduce our environmental impact and reliance

- 2431 on foreign supply chains, as we just discussed. EPR programs
- 2432 can also help bolster supply chains by keeping recycled
- 2433 materials in use and promote more sustainable product design.
- Ms. Harrison, in general why should businesses take
- 2435 financial responsibility for the full life cycle of their
- 2436 products?
- 2437 *Ms. Harrison. So I think a good example of what change
- 2438 looks like -- in 2023 we partnered with the Coca-Cola
- 2439 Foundation, and we piloted a new education campaign in
- 2440 Newark, New Jersey. So we helped put 4,000 new carts,
- 2441 recycling carts, on the ground and redid the whole education
- 2442 program. And we project that Newark now collects more than
- 2443 700 new tons of material per year. That is an opportunity
- 2444 that companies have not just to work on what they are
- 2445 producing, designing for recycling, but by investing in
- 2446 communities they see that they can make meaningful change.
- 2447 The challenge is, one by one, it takes a very long time
- 2448 to do that. That is where the opportunity of policy, EPR,
- 2449 comes in to be able to give the same opportunity that Newark
- 2450 got in -- for -- in your fine state to every community.
- 2451 *Mr. Menendez. Yes. No, I appreciate that. And, you
- 2452 know, obviously in the current construct, right, it is the
- 2453 individuals, the families, it is the municipalities who are
- 2454 paying for the waste and the recycling. And EPR programs can
- 2455 help ensure that manufacturers take responsibility.

- I think you brought up a good point. It is -- thinking
- 2457 about when they are responsible for the full life cycle, it
- 2458 may enhance their design phase, right --
- 2459 *Ms. Harrison. Yes.
- 2460 *Mr. Menendez. -- to think about what they are
- 2461 delivering to the customer if they are also responsible for
- 2462 recycling, right? I think that is --
- 2463 *Mr. Eisenberg. Correct.
- 2464 *Mr. Menendez. It is good business, and it is good for
- 2465 our environment. It is good for our -- all of our
- 2466 constituents.
- Ms. Harrison, can you expand on how EPR can spur needed
- 2468 investment in our nation's recycling system?
- 2469 *Ms. Harrison. Yes, the U.S. recycling system, if we
- 2470 were going to fix it -- which we can --
- 2471 *Mr. Menendez. Yes.
- 2472 *Ms. Harrison. -- which means that everyone can
- 2473 recycle, everyone does, and old stuff turns to new stuff, we
- 2474 are looking at a \$17 billion CapEx. So that means everyone
- 2475 has carts, we have got trucks, we have got good
- 2476 infrastructure. Then annually that is a \$17 billion
- 2477 investment to run it.
- 2478 We know the return is more than fourfold on that. It
- 2479 comes back into the U.S. opportunity to make new things, to
- 2480 domestic supply chain. So we see a really strong opportunity

- 2481 to invest in our system. It serves our communities, it
- 2482 prevents pollution, and it serves manufacturing. So it is a
- 2483 no-brainer in my book.
- 2484 *Mr. Menendez. Yes. And do you think -- is there a way
- 2485 we should be sort of reframing the conversation? Right?
- 2486 Because as we have alluded to here, you grew up with the
- 2487 three R's about recycling, right? And it seems like sort of
- 2488 like more of a task, right, for both for companies and for
- 2489 individuals, for communities. Is there an opportunity in
- 2490 this moment, because of all the benefits that we have
- 2491 discussed in this 4-and-1/2 minutes and in the broader
- 2492 committee hearing, is there a way that we should be reframing
- 2493 it to get people to engage in it in a way that they are going
- 2494 to actively want to participate?
- 2495 *Ms. Harrison. Yes. The first step is to make sure
- 2496 that they can, and that it is easy, and it is not confusing,
- 2497 and then trust. They want to see the process of their yogurt
- 2498 cups becoming car parts, and their cans becoming airplane
- 2499 parts. They would love to know about that.
- 2500 But I would challenge us not to rely on it always being
- 2501 the consumers' -- the public's burden. We need to build the
- 2502 system. Once the system is there, then they will
- 2503 participate.
- 2504 *Mr. Menendez. Yes, I appreciate that.
- 2505 *Ms. Harrison. Thank you.

- 2506 *Mr. Menendez. I would love to hear from Mr.
- 2507 Bedingfield, but I don't want to be too -- anyway, I will
- 2508 yield back. Thank you all so much.
- 2509 *Mr. Palmer. I thank the gentleman for yielding. I now
- 2510 recognize myself for five minutes for questions.
- 2511 And I am sorry. This is my first hearing, and it is
- 2512 like I have never done one.
- 2513 [Laughter.]
- 2514 *Mr. Palmer. I now recognize the gentleman from
- 2515 Virginia, Mr. Griffith, for five minutes for his questions.
- 2516 *Mr. Griffith. I really appreciate you, Chairman,
- 2517 allowing me that opportunity, and let me apologize to the
- 2518 witnesses. I have been chairing a meeting downstairs and
- 2519 trying to juggle when I could get up here. And so I ran up
- 2520 the stairs to get here.
- 2521 Microplastics is something I am really interested in. I
- 2522 apologize if it is repetitive, but there is concern. It is
- 2523 becoming more visible issue, with news media beginning to
- 2524 publicize what is going on and microplastics in the brain.
- 2525 And where is that plastic coming from? And I am hearing all
- 2526 kinds of different reports from my plastic water bottle to
- 2527 the tires on the highways. Does anybody have a definitive
- 2528 answer yet?
- 2529 *Mr. Eisenberg. So I am happy to take that one, and t
- 2530 is --

- 2531 *Mr. Griffith. I assume the answer is no, nothing
- 2532 definitive yet. But where are we going?
- 2533 *Mr. Eisenberg. Yes. So -- and that is really symbolic
- of the challenge.
- 2535 So there are a number of sources, right? We know that
- 2536 it is coming from tires and tire runoff. We know it is
- 2537 coming from textiles, from the clothes we are wearing and
- 2538 things like that. We know it is coming from big plastics
- 2539 that become little plastic because of their environment and
- 2540 they start to degrade and things like that. We are still
- 2541 trying to figure out how much of it is coming off of existing
- 2542 plastics that -- you know, in sunlight and things of that
- 2543 nature.
- 2544 And really, that is the -- that is what, I think, the
- 2545 message that I think is most important here is that I think
- 2546 if you ask anybody -- scientists, environmental activists,
- 2547 industry person -- we all need more science, right? We need
- 2548 dramatically more science to help inform the policy here.
- We, the chemical industry, the global chemical industry,
- 2550 are putting -- we funded over 100 researchers in 37
- 2551 institutions around the globe. We need so much more than
- 2552 that. We are trying to get these answers. We hope that
- 2553 Congress will act and help do this as well. Let's get those
- 2554 answers so that we can reassure the public of what is going
- 2555 on here.

- 2556 *Mr. Griffith. Well, and I appreciate that. And of
- 2557 course, the problem right now is you don't know what to do.
- 2558 I mean, I --
- 2559 *Mr. Eisenberg. Agreed.
- 2560 *Mr. Griffith. It is little stuff, but I changed out my
- 2561 tea bags this week because apparently some of them use a
- 2562 plastic fiber, and a lot of them are switching back to plant-
- 2563 based. And so I switched my bags out and went with a more
- 2564 expensive tea bag. I am cheap and was trying to stay cheap,
- 2565 but it is that kind of stuff that we worry about.
- 2566 *Mr. Eisenberg. Yes, and totally understandable, right?
- Now, I will channel the chemical side of the house at
- 2568 ACC. The presence of a chemical is not a risk, right? I
- 2569 mean, we have to do our risk evaluation and understand that -
- 2570 if the presence of the chemical actually does demonstrate a
- 2571 risk to human health, and that is something that we should
- 2572 absolutely be doing here as the science develops.
- 2573 But in the meantime we can also be focusing -- I mean,
- 2574 that is the great thing about this recycling message that we
- 2575 are all putting here. We can take care of the big plastics
- 2576 not becoming a little plastics, right? Let's get them back
- 2577 into the system. Let's make this circular, and make sure
- 2578 that that piece of the challenge is taken care of right now.
- 2579 *Mr. Griffith. And I would say I am really excited
- 2580 about some of the recycling stuff that is happening out

- 2581 there. I have visited -- I know you heard from Diana
 2582 Harshbarger a few minutes ago, and I don't know what her
- 2583 questions were, but I have visited the Eastman facility that
- 2584 is in her district because it is within eight miles of my
- 2585 district. And so I have -- about 10 percent of their
- 2586 workforce is in my district. And the research that they have
- 2587 been doing for decades on cracking open different carbon
- 2588 molecules and rearranging them and creating new plastics, it
- 2589 is absolutely fabulous. And instead of putting this plastic
- 2590 into the ground, if we can find good, efficient practical
- 2591 ways to recycle it, that is absolutely the goal, I think, of
- 2592 all Americans. Does anybody disagree with that?
- None of our panelists -- let the record reflect none of
- 2594 the panelists disagreed with that comment. And so I really
- 2595 appreciate what you all are doing. We just have to try to
- 2596 figure out the science, and that is the hard part.
- I have about a minute left. Does anybody have something
- 2598 to add to the questions I have asked or the concerns?
- 2599 Yes, ma'am.
- 2600 *Ms. Harrison. Well, I think the very nature of -- you,
- 2601 as just an individual trying to figure out what is the best
- 2602 way to handle this -- which tea bag is right? What about
- 2603 your carpet? What about the clothes? That is exactly why we
- 2604 need this committee and why we need leadership from Congress.
- 2605 Because the public can't answer all that. Busy moms can't

- 2606 answer all that. They just need things to be healthy.
- And so this is where we need policy to set up a good
- 2608 system to -- that drives innovation and U.S. opportunities,
- 2609 but that also keeps the public safe. And so I think the
- 2610 research that we need has to be funded in part from you all
- 2611 and in the leadership so that we can all make those good
- 2612 choices.
- 2613 *Mr. Griffith. And I won't disagree with that because
- 2614 what I want to see is that we make decisions based on
- 2615 science, and too often what we do is we decide something is
- 2616 bad, we get scared, and it is understandable that the public
- 2617 gets scared. I mean, as cheap as I am, I wouldn't have
- 2618 bought new tea bags if I didn't have some concern about, you
- 2619 know, plastics in the brain.
- But that said, we have got to have the science before we
- 2621 go throwing the product out, which has been an amazing
- 2622 product for consumers and, in fairness, for the health of the
- 2623 environment over time. It doesn't mean everything is
- 2624 perfect, but I believe it has been a real asset to our
- 2625 environment. Notwithstanding those who just look at the
- 2626 negatives, the positives far outweigh those in my mind.
- 2627 With that, Mr. Chairman, I appreciate you giving me the
- 2628 time, and I yield back.
- 2629 *Mr. Palmer. I thank the gentleman for yielding. I now
- 2630 recognize myself for five minutes for my questions.

- 2631 And as I was about to point out earlier, yesterday I introduced the Securing America's Mineral Supply Act of 2025 2632 to codify President Trump's executive orders that will ensure 2633 2634 we secure our critical mineral rare Earth element supply 2635 chain. So Mr. Bedingfield, you spoke of the importance of 2636 securing processing of e-waste, and I would think you would 2637 include refining, as well. But what they -- a lot of people 2638 don't realize is what a national security risk we have 2639 created for ourselves by basically exporting the processing 2640 and refining to an adversarial nation. In your process you destroy any data -- any potential for data recovery. Is that 2641 2642 correct? 2643 *Mr. Bedingfield. Yes, sir, we do. We shred to below two millimeters, which is NSA standard for data destruction. 2644 2645 *Mr. Palmer. Do you think China does that?
- the problem. But if they can get data, I would think they 2649 would sure take it. 2650 *Mr. Palmer. You also talked about how you have the 2651 capabilities -- each facility has the capability to recover, 2652 for instance, 1,000 tons of copper, a ton of gold, 250 tons 2653 of lithium, 500 tons of cobalt. These are the things that we

*Mr. Bedingfield. I am honestly not sure what China

does. I don't think any of us are, and that is absolutely

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2655 nickel. Those elements and those minerals were very likely

are having to import from China. You said 1,000 tons of

- 2656 not sourced from here. Would you say that, that they are
- 2657 likely sourced from mines in Africa and South America and
- 2658 processed and refined in China, placed in the electronics
- 2659 that we buy, so we are recovering basically what China has
- 2660 mined, processed, and refined? Would you agree with that?
- 2661 *Mr. Bedingfield. Yes, sir. We have to import them
- 2662 because we don't have the capacity here. And then, when we
- 2663 export them, we do it all over again. So we need to keep
- 2664 those minerals here. If we have to import them the first
- 2665 time, fine. But once we get the mines up, hopefully that
- 2666 ends. But at the very least right now, we should only import
- them once.
- 2668 *Mr. Palmer. You also in your written testimony said
- 2669 that we export 340,000 tons of e-waste each year. Where does
- 2670 that go?
- 2671 *Mr. Bedingfield. Most of it goes to either Europe or
- 2672 Asia. That is where the big refineries are. They have built
- 2673 these things over decades and decades --
- 2674 *Mr. Palmer. Europe has the refining capability to
- 2675 refine e-waste. Do they also have the refinery capability to
- 2676 refine processed aggregate, or is that -- that is obviously a
- 2677 different process, isn't it?
- 2678 *Mr. Bedingfield. It is, but I believe they do, as
- 2679 well.
- 2680 *Mr. Palmer. Okay. Mr. Eisenberg, we talked about

- 2681 recycling, and part of the problem with that is -- I think --
- 2682 is that the market doesn't support it. And do you see a
- 2683 future where the market would pay for recycling so the
- 2684 recycling would pay for itself?
- 2685 *Mr. Eisenberg. Pay for itself? I mean, hopefully,
- 2686 yes. I mean, any technology, if you -- is my mike on?
- 2687 *Mr. Palmer. Yes.
- 2688 *Mr. Eisenberg. Any technology, if you do sort of
- 2689 mature it, will become cost competitive, right? I mean, that
- 2690 is the beauty of it, and putting all the additional time --
- 2691 *Mr. Palmer. Okay.
- 2692 *Mr. Eisenberg. -- and effort into it.
- 2693 *Mr. Palmer. Ms. Harrison, I asked my colleague, Mr.
- 2694 Tonko, to let me see his cranberry juice bottle. And on it
- 2695 there -- it states that we will pay \$0.05 for redemption.
- 2696 One state on the bottle pays \$0.10. Do you think that that
- 2697 would play a role?
- 2698 And I say that because when I was just a kid we had a
- 2699 chance to go to the University of Alabama to see the state
- 2700 basketball playoffs, but we had to have \$5, and I was -- I
- 2701 grew up dirt poor, so I walked up and down the road and
- 2702 pulled soft drink bottles out of the ditch, went to the
- 2703 neighbor's house and asked for them to try to come up with
- 2704 100 to get the \$5 I needed.
- 2705 *Ms. Harrison. Did you do it?

- 2706 *Mr. Palmer. I did. I bought a hamburger.
- 2707 [Laughter.]
- 2708 *Ms. Harrison. Deposits can definitely help, but I
- 2709 think it is important we break this into two parts. There is
- 2710 the cost of collecting it and getting it to the end market.
- 2711 And that deposit helps offset the cost for communities to get
- 2712 it into the recycling system.
- 2713 *Mr. Palmer. But you are talking about communities, and
- 2714 I think that is where we kind of lose the market part of it.
- 2715 We have got to figure out a way where there is a market
- 2716 solution to incentivize people to do this because if it is
- 2717 just a matter of trying to remember to separate what you put
- 2718 in your trash -- put out, you know, one time a week or
- 2719 whatever -- but if there is some way that we can incentivize
- 2720 this --
- 2721 *Ms. Harrison. Yes.
- 2722 *Mr. Palmer. -- I think it would really help.
- 2723 And you talked about, Mr. Eisenberg, about a national
- 2724 standard. I think what we ought to be talking about here is
- 2725 not, you know, some of the politics that we get into here,
- 2726 but really coming up with a solution that makes sense, that
- 2727 it is not always run by the government because there is -- I
- 2728 think there is an automatic dismissal of government programs
- 2729 unless it is enforced on people. So if we could come up with
- 2730 a way to incentivize this, I think we would make some pretty

- 2731 significant advances in our ability to recycle and solve some
- 2732 of these problems that we have.
- I can't believe I am already out of time. But I will
- 2734 yield back and recognize the gentleman from Louisiana, Mr.
- 2735 Carter, for five minutes for his questions.
- 2736 *Mr. Carter of Louisiana. Thank you, Mr. Chairman, and
- thank you to our witnesses for joining us today.
- I am a proud supporter of recycling, not just because it
- 2739 is good for the environment and sustainability, but it also -
- 2740 but because it is -- the circular economy where materials
- 2741 are reused, recycled, and kept in circulation is good for
- 2742 business. The business community gets this. That is why my
- 2743 hometown of New Orleans began partnering with New Orleans and
- 2744 Company, our local tourism bureau, to create recycled dat.
- 2745 Dat, like who dat.
- 2746 [Laughter.]
- 2747 *Mr. Carter of Louisiana. The first official recycling
- 2748 effort for Mardi Gras, the largest street party on Earth,
- 2749 generated more than two million pounds of trash annually,
- 2750 which the city had to collect after the parties and parades
- 2751 were over. Now they have shifted their efforts to working
- 2752 with local recycling businesses to keep those plastic beads,
- 2753 beer cans, and water bottles from clogging our storm drains
- 2754 or ending up in landfills. This past year the program
- 2755 collected over 23,000 plastic bottles, 46,000 pounds of

- 2756 glass, 22,800 pounds of beads and parade throws. Our tourism
- 2757 leaders understand that visitors to our city not only want to
- 2758 enjoy our culture, but they also want to do it in an
- 2759 environmentally responsible way.
- On a national scale, an expanded circular economy can
- 2761 create jobs, reduce greenhouse gas emissions, and make our
- 2762 supply chain more resilient. According to the EPA, recycling
- 2763 and reused -- recycling and reuse already supports 680,000
- jobs, generating more than \$37 billion in wages and \$5.5
- 2765 billion in tax revenues annually. Programs like the Solid
- 2766 Waste Infrastructure for Recycling, or SWIFR grants, and the
- 2767 recycling education, or REO, programs are critical lifelines
- 2768 for communities seeking to modernize outdated recycling
- 2769 infrastructure and educate the public on effective recycling
- 2770 practices. These aren't just environmental programs; they
- 2771 are economic development tools, as well. A quick question
- 2772 for Keefe Harrison.
- 2773 Mr. Harrison -- Ms. Harrison, I am sorry, Ms. Harrison
- 2774 -- the City of New Orleans is proud -- is a proud recipient
- 2775 of a SWIFR grant. Your team at Recycling Partnership helped
- 2776 put the application together, and now we are assisting the
- 2777 city in implementing the project. Nearly four million in
- 2778 bipartisan funding from the Bipartisan Infrastructure Law
- 2779 will transform the way my neighbors and I can recycle.
- 2780 Can you tell us more about how the grant will improve

- 2781 recycling in New Orleans, and how this project can serve as
- 2782 an example for other communities across the country,
- 2783 recognizing the great work that we have in New Orleans?
- 2784 *Ms. Harrison. Yes, Representative Carter. We were so
- 2785 proud to join you in that announcement, and our team worked
- 2786 hard to make sure that New Orleans is a shining star.
- 2787 This grant will make sure that 83,000 community -- or
- 2788 households in New Orleans will now be able to recycle. It
- 2789 will give them the infrastructure that you are talking about.
- 2790 It will also layer in the education to make sure they know
- 2791 what to do.
- Our research shows that 58 percent of Louisianans don't
- 2793 understand what to recycle.
- 2794 *Mr. Carter of Louisiana. As you mentioned, a portion
- 2795 of the award will go toward solid waste master plan,
- 2796 including an evaluation of regional recycling processing
- 2797 infrastructure opportunities for the city to obtain Materials
- 2798 for Recovery Facilities, or MRF, which receive -- sorts and
- 2799 prepares recyclable materials for sale to manufacturers. Why
- 2800 should Federal funding be used for municipalities to
- 2801 undertake these studies?
- 2802 And why would a new MRF be beneficial to the New Orleans
- 2803 region?
- 2804 *Ms. Harrison. A new MRF would be beneficial because
- 2805 the -- so when we put our stuff into the recycling cart, it

- 2806 is all mixed together. Then you have got to separate it out.
- 2807 That is what happens in a MRF. It is a critical step for
- 2808 making sure that those materials make it to end market. Many
- 2809 of those MRFs, you know, they have evolved over time, and
- 2810 they are not at pace with the diversity of packaging that we
- 2811 are talking --
- 2812 *Mr. Carter of Louisiana. How much time does that save
- 2813 you when you don't have to go and resort all this stuff?
- 2814 *Ms. Harrison. It saves time, it saves money, but it
- 2815 also increases the amount of recyclables that get to U.S.
- 2816 manufacturing.
- 2817 *Mr. Carter of Louisiana. And we know we generate a lot
- 2818 of beads, a lot of plastics.
- 2819 [Laughter.]
- 2820 *Ms. Harrison. I have been.
- 2821 *Mr. Carter of Louisiana. You know, when we say, "Hey
- 2822 Mister, throw me something,'' we throw it. We want people to
- 2823 enjoy Mardi Gras. We want them to enjoy it respectfully,
- 2824 peacefully. And we want to recycle, not just during Mardi
- 2825 Gras. That is, obviously, an important time. But as you
- 2826 know, New Orleans has no shortage of festivals, French
- 2827 Quarter Festival, Jazz Festival, Essence Festival, Tomato
- 2828 Festival, fried chicken festival. And all of those things
- 2829 generate a lot of debris that can be recycled and put back
- 2830 into the secondhand market for manufacturing.

- 2831 *Ms. Harrison. Yes. The mayor of New Orleans recently
- 2832 joined me for a webinar, and she is so fiercely proud of the
- 2833 leadership that she is bringing to the community to make sure
- 2834 that everyone has the opportunity. The equal opportunity is
- 2835 key.
- 2836 *Mr. Carter of Louisiana. And I am proud to say the
- 2837 people of New Orleans are eager. They love what you do.
- 2838 They love the idea of recycling. They love the idea of
- 2839 having venues so they can recycle.
- So, Mr. Chairman, my time is up and I yield.
- 2841 *Mr. Palmer. Hey, Mister, can you throw me some fried
- 2842 chicken?
- 2843 [Laughter.]
- 2844 *Mr. Carter of Louisiana. Absolutely.
- 2845 *Mr. Palmer. The gentleman yields. I would like to
- 2846 thank our witnesses for being here today.
- 2847 Members may have additional written questions for you,
- 2848 and I will remind members that they have 10 business days to
- 2849 submit additional questions for the record, and I ask that
- 2850 the witnesses do their best to submit responses within 10
- 2851 business days upon receipt of the questions.
- I ask unanimous consent to insert in the record
- 2853 documents included on the staff hearing documents list.
- 2854 Without objection, that will be the order.
- 2855

2856	[The information follows:]
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2858	**************************************
2859	

2860	*Mr. Palmer. Without objection, the subcommittee is
2861	adjourned.
2862	[Whereupon, at 12:30 p.m., the subcommittee was
2863	adjourned.]