

COMMITTEE ON ENVIRONMENTAL PROTECTION, RESILIENCY

AND WATERFRONTS 1

CITY COUNCIL
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

Of the

COMMITTEE ON ENVIRONMENT PROTECTION,
RESILIENCY AND WATERFRONTS

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March 1, 2024
Start: 1:08 p.m.
Recess: 2:50 p.m.

HELD AT: 250 BROADWAY - HEARING ROOM, 16TH
FLOOR

B E F O R E: James F. Gennaro, Chairperson

COUNCIL MEMBERS:

Alexa Avilés
Robert F. Holden
Kristy Marmorato
Sandy Nurse

COMMITTEE ON ENVIRONMENTAL PROTECTION, RESILIENCY
AND WATERFRONTS 2

A P P E A R A N C E S

Sana Barakat, Deputy Commissioner, Emergency Management, Department of Citywide Administrative Services

Steven Caputo, Assistant Commissioner, Emergency Management, Department of Citywide Administrative Services

Elijah Hutchinson, Executive Director, Mayor's Office of Climate and Environmental Justice

Lydia Wiener, Policy Advisor at Mayor's Office of Climate and Environmental Justice

Brent Taylor, Assistant Commissioner, Department of Citywide Administrative Services Fleet Management

Matthew Berk, Assistant Commissioner, Department of Citywide Administrative Services Real Estate

Carleen McLaughlin, Department of Environmental Protection

Flandersia Jones, Director-at-Large of New York State Nurses Association

Ben Dorman, Deputy Director of Climate Jobs New York

Richard Mantell, Vice President of United Federation of Teachers

Azucena Qadeer, Political Director of TREEage

COMMITTEE ON ENVIRONMENTAL PROTECTION, RESILIENCY
AND WATERFRONTS 3

A P P E A R A N C E S (CONTINUED)

Jeffrey Wu, Policy Analyst with Climate Jobs
National Resource Center

Alia Soomro, Deputy Director for New York City
Policy at the New York League of Conservation
Voters

Shravanthi Kanekal, Senior Resiliency Planner for
the New York City Environmental Justice Alliance

Adam Roberts, Policy Director for the Community
Housing Improvement Program

Rami Dinawwi, Environmental Justice Campaign and
Policy Manager at El Puente

1
2 SERGEANT-AT-ARMS: Check one, two. Pre-
3 recorded sound test for the Committee on
4 Environmental Protection. Today's date is March 1,
5 2024. It's being recorded by Michael Leonardo on the
6 16th Floor Hearing Room.

7 SERGEANT-AT-ARMS: Good afternoon and
8 welcome to today's New York City Council hearing for
9 the Committee on Environmental Protection, Resiliency
10 and Waterfronts.

11 At this time, we ask that you silence all
12 cell phones and electronic devices to minimize
13 disruptions throughout the hearing.

14 If you have testimony you wish to submit
15 for the record, you may do so via email at
16 testimony@council.nyc.gov. Once again, that is
17 testimony@council.nyc.gov.

18 At any time throughout the hearing,
19 please do not approach the dais.

20 Thank you for your cooperation.

21 Chair, we're ready to begin.

22 ACTING CHAIRPERSON NURSE: Thank you.

23 [GAVEL] Good afternoon. I am Council Member Sandy
24 Nurse. Good afternoon, everyone. Thank you for being
25 here. Unfortunately, Chair Gennaro could not join us

1 this afternoon so I will be serving as Acting Chair
2 of the Committee on Environmental Protection,
3 Resiliency and Waterfront for this afternoon's
4 hearing. Chair Gennaro wants you to know that he is
5 receiving followup medical treatment for an eye
6 injury. Fortunately, his prognosis for a full
7 recovery is good but, before we begin our first
8 hearing of the new legislative session, on behalf of
9 Chair Gennaro, I would like to thank the returning
10 members of this Committee, Council Members Holden and
11 Restler, for their hard work last session and for
12 their enduring commitment to the work of the
13 Committee. I would also like to welcome our new
14 Members, Council Member Marmorato, Salamanca, Aviles,
15 Zhuang, and Brannan. We look forward to working with
16 all of you to create a greener, more resilient New
17 York City.
18

19 Today, we will be holding an oversight
20 hearing on the installation of solar photovoltaic
21 systems, also known as PV systems, and battery
22 storage capacity.

23 The Committee will also hear a few pieces
24 of legislation related to increasing the installation
25 of solar PV and battery storage systems in New York

1 City. The Committee welcomes testimony from the
2 Department of Citywide Administrative Services, the
3 Mayor's Office of Climate and Environmental Justice,
4 advocates, and interested members of the public.
5

6 Decarbonization is the key to New York
7 City's strategy to combat climate change, a fight
8 which has never been more important. According to the
9 initial finding of this year's report from the New
10 York City Panel on Climate Change, New York City can
11 expect sea levels to rise between 6 inches and 12
12 inches by the end of the 2030s, and we'll see
13 temperatures increase by 2 and 4.7 degrees Fahrenheit
14 in the same time frame. Not by the end of the
15 century, but by the end of the next decade. Our
16 window to meaningfully mitigate the impacts of
17 climate change is rapidly closing.

18 We're having some technical problems. One
19 second.

20 All right, we're going to resume.

21 The City has a legal obligation to
22 decarbonize. Local Law 97 of 2019 requires the City
23 to achieve a 40 percent reduction in emissions from
24 government operations by 2025 and a 50 percent
25 reduction in such emissions by 2030. On the state

1 level, the New York Climate Leadership and Community
2 Protection Act requires New York State to reduce
3 statewide emissions by 40 percent from 1990 levels by
4 2030 and 85 percent by 2050. Solar PV systems and
5 battery energy storage systems will be critical to
6 decarbonizing our electric grid and in meeting our
7 city, state, and climate goals. In 2014, the de
8 Blasio Administration announced a goal of installing
9 100 megawatts of solar power generation on City
10 buildings to help the City meet its goals of reducing
11 greenhouse gas emissions by 80 percent by 2050.
12 However, as of September 2030, DCAS has only
13 installed 23 megawatts of solar PV panels on City
14 facilities, less than a quarter of the City's goal to
15 install 100 megawatts of solar by 2025. Battery
16 energy storage systems, which can capture energy at
17 the time of production and store it until it is
18 needed, are critical to the success of renewable
19 energy systems, such as solar, that produce
20 electricity from the natural environment and cannot
21 scale up production in real time in response to
22 demand and will help ease our transition away from
23 fossil fuels. The PowerUp NYC report found the
24 potential for 400 megawatts of energy storage on
25

2 City-owned unused vacant land and parking lots, over
3 3,000 megawatts of battery storage capacity in
4 repurposed power plants, and another potential 7,000
5 megawatts of battery storage capacity on private
6 vacant land. These are valuable tools that we can use
7 to decarbonize but only if the City takes decisive
8 action. The Committee looks forward to hearing from
9 DCAS and MOCEJ on how the City plans to utilize the
10 resources available to us to increase the production
11 of solar power and the deployment of battery storage
12 systems that will help the City wean itself off of
13 fossil fuels once and for all.

14 In addition to hearing from the
15 Administration, the Committee will hear the following
16 legislation. Intro. number 129, sponsored by Council
17 Member Brannan, would require DCAS to install solar
18 power capturing canopies at each City-controlled
19 parking lot that receives solar radiation, where such
20 installation would be cost effective.

21 We will also hear several bills sponsored
22 by myself. Intro. number 347, would exempt rooftop
23 solar installation projects from any fees in
24 connection with an application for a street crane
25 permit. Intro. number 353 would require the City to

2 install 100 megawatts on City-owned buildings and
3 other properties by 2030.

4 Lastly, Intro. 354 would require DCAS in
5 coordination with MOCEJ to identify City-owned lots
6 suitable for installing energy storage systems and
7 install at least 300 megawatts of energy storage
8 capacity on those lots by 2030 and 400 megawatts by
9 the end of 2035. These bills build on and codify
10 previous goals outlined in the OneNYC, PlaNYC, and
11 PowerUp NYC plans to ensure the Administration is on
12 track to meet the City's clean energy goals. The City
13 must be aggressive in urgently and equitably meeting
14 our climate goals. New York City can catalyze good
15 union labor jobs by leveraging federal opportunities
16 to fund solar and energy storage. The City can also
17 address environmental injustices by prioritizing
18 investments in disadvantaged communities.

19 I would like to thank the Committee
20 Staff, Committee Counsel Claire MacLachlan, Policy
21 Analysts Ricky Chawla and Andrew Bourne, Financial
22 Analyst Tanveer Singh, and my Director of Climate and
23 Environmental Policy, Annel Hernandez, and Chair
24 Gennaro's Legislative Director, Nabby Kaur, for all
25 their hard work.

2 Finally, I will note that written
3 testimony which will be reviewed in full by Committee
4 Staff may be submitted to the record up to 72 hours
5 after the close of this hearing by emailing it to
6 testimony@council.nyc.gov.

7 We ask that all witnesses who are
8 testifying today abide by the three-minute time
9 allowance. I'm usually pretty flexed. It's not as
10 strict as Chair Gennaro, although these were his
11 remarks.

12 Please note that public witnesses are not
13 permitted to film themselves as they testify, nor are
14 they permitted to show pre-recorded video as part of
15 their testimony. Thank you.

16 I want to recognize Council Member Alexa
17 Avilés and Kristy Marmorato for being here.

18 Now, I'll turn it over to Committee
19 Counsel.

20 COMMITTEE COUNSEL MACLACHLAN: Thank you.
21 I'm Claire MacLachlin, Council Committee on
22 Environmental Protection, Resiliency and Waterfronts
23 at the New York City Council.

24 Our first witnesses will be from the
25 Administration. We have Sana Barakat, Deputy

2 Commissioner for the Division of Energy Management at
3 DCAS, and Elijah Hutchinson, the Executive Director
4 of Mayor's Office of Climate and Environmental
5 Justice.

6 Will you please state your name to the
7 record?

8 DEPUTY COMMISSIONER BARAKAT: Sana
9 Barakat.

10 EXECUTIVE DIRECTOR HUTCHINSON: Elijah
11 Hutchinson.

12 COMMITTEE COUNSEL MACLACHLAN: Are you
13 testifying as well or are you here for questions?

14 ASSISTANT COMMISSIONER CAPUTO: I'm here
15 to support with questions and we have a few others as
16 well so Steven Caputo from DCAS.

17 COMMITTEE COUNSEL MACLACHLAN: Thank you.
18 I will now administer the oath. Please raise your
19 right hands.

20 Do you affirm to tell the truth, the
21 whole truth, and nothing but the truth before this
22 Committee and to respond honestly to Council Member
23 questions?

24 DEPUTY COMMISSIONER BARAKAT: Yes.

25 EXECUTIVE DIRECTOR HUTCHINSON: Yes.

2 ASSISTANT COMMISSIONER CAPUTO: Yes.

3 COMMITTEE COUNSEL MACLACHLAN: Thank you.

4 You may begin when ready.

5 DEPUTY COMMISSIONER BARAKAT: Good
6 afternoon. I want to first wish Chair Gennaro the
7 best and a speedy recovery.

8 Good afternoon again, Acting Chair Nurse
9 and Members of the Committee. My name is Sana
10 Barakat, and I am the New York City Chief
11 Decarbonization Officer and the Deputy Commissioner
12 of Energy Management at the Department of Citywide
13 Administrative Services, commonly known as DCAS.

14 I am joined today by Steven Caputo,
15 Assistant Commissioner for Operations at DCAS Energy
16 Management; Elijah Hutchinson, Executive Director of
17 the Mayor's Office of Climate and Environmental
18 Justice, known as MOCEJ; Lydia Wiener, Policy Advisor
19 for Clean Energy at MOCEJ; and Carleen McLaughlin,
20 Director of Legislative Affairs at the Department of
21 Environmental Protection. Thank you for the
22 opportunity to testify on the City's effort to
23 install solar photovoltaic systems, commonly known as
24 solar PV, and battery storage capacity.

2 Solar PV and battery storage are vital
3 components in the City's efforts to move away from
4 fossil fuel generated electricity, and we have made
5 tremendous progress to increase solar and battery
6 storage capacity in the city, both in the public and
7 private spheres. Ten years ago, in recognition that
8 climate change represented the most pressing
9 existential threat to New York City's quality of
10 life, the City set a goal to reduce citywide
11 greenhouse gas emissions by 80 percent by 2050 and at
12 the time became the largest city in the world to
13 commit to that target. One of the major policies
14 established by the Administration at that time to
15 achieve the 80 by 50 goal was to expand solar
16 capacity on municipal building rooftops to 100
17 megawatts by 2025. Prior to setting the 100-megawatt
18 target in 2014, the City had less than one megawatt
19 of solar power installed on municipal buildings.
20 Since then, we have grown our capacity exponentially
21 and are now considered an industry leader. By 2022,
22 we installed 16.7 megawatts of solar capacity,
23 representing a nearly 40 percent increase from the
24 prior two years. We have since expanded our solar
25 capacity even further by another 44 percent. To date,

1 the City led by DCAS has installed over 24 megawatts
2 of solar capacity across 155 municipal properties in
3 all five boroughs. Notably, of the 24 megawatts of
4 solar currently installed, 55 percent of these
5 systems are in the State-designated disadvantaged
6 communities known as DACs. We are continuing to add
7 megawatts at a rapid scale. Since DCAS last testified
8 before this Committee in December, we installed
9 another 1.5 megawatts. Based on our current pipeline,
10 budget, and staff capacity, we expect to more than
11 double our current capacity to approximately 50
12 megawatts by 2025. If conditions remain the same, we
13 expect to hit 70 megawatts by 2027 and 100 megawatts
14 by 2030. These achievements were all made possible
15 through the docked commitment of DCAS and our partner
16 agencies to identify all viable city properties for
17 solar. We are using every tool at our disposal to
18 install solar systems, including capital investment
19 as well as power purchase agreements known as PPAs.
20 Our PPAs have allowed us to significantly increase
21 the rate of our solar installations in a cost-
22 effective manner. We are also committed to being good
23 stewards of our City-owned solar assets so that we
24 can maximize system performance, greenhouse gas
25

2 reductions, and energy cost-saving while ensuring the
3 longevity of system lifespans. We currently have a
4 solar operations and maintenance contract with an
5 M/WBE vendor to provide O and M services to a
6 selection of sites with the highest operation,
7 operational and maintenance needs. We also recently
8 released a solicitation for a comprehensive O and M
9 contract to cover all City-owned solar installations
10 to ensure the City's investments and operating at
11 full capacity and peak performance. In other words,
12 we're not just focused on solar energy now, but we're
13 focused on protecting these investments into the
14 future.

15 While the City's rapid scaling of solar
16 capacity is nothing short of remarkable, we now know
17 that 100 megawatts by 2025 is not feasible. I'd like
18 to take this opportunity to explain some of the
19 challenges we have faced and continue to face in our
20 efforts to reach 100 megawatts of solar capacity.

21 First, as I mentioned previously, when
22 the prior Administration set the ambitious 100
23 megawatts by 2025 goal, neither city government nor
24 the private sector had any significant experience
25 with large-scale solar installation. There could be

2 no pilot for such an undertaking. We jumped right in,
3 and the City worked with the electrical utilities and
4 established its solar installation program from the
5 ground up. Procurement and contracting for solar at
6 this scale did not have precedent, and it has taken
7 time to develop the necessary procurements. Just as
8 we were starting to scale up our program, COVID set
9 the City's progress back by about two years,
10 resulting in obstacles and delays that linger to this
11 day as we are still dealing with a constrained supply
12 chain as well as commodity and shipping cost
13 increases and shipping delays. It is challenging to
14 find viable sites to install solar due to many
15 municipal buildings needing roof repair or
16 replacement and the limited space in our dense urban
17 environment. We are in a competitive job market, and
18 it is a challenge to recruit and retain staff to
19 implement and maintain solar installations. Finally,
20 as we all know, the City is facing extraordinary
21 budget pressures that could hamper our progress in
22 the coming years.

23 However, this Administration is working
24 to overcome these challenges to continue the rapid
25 growth of our solar program. This work includes DCAS

2 taking full advantage of our design build
3 authorization granted by the state in 2021. We are
4 aggressively advancing design build contracts under
5 this authority and are on track to release DCAS'
6 first design build solicitation for rooftop solar
7 installation this spring. Gaining access to a PPA
8 issued by the New York Power Authority that will
9 bring solar installation to over 60 City-owned
10 buildings in Brooklyn and Queens, including schools
11 and wastewater resource recovery facilities known as
12 WRRFs, this agreement will add over 30 megawatts of
13 solar capacity. The solar installation on Wards
14 Island WRRF will be the largest solar installation on
15 a wastewater treatment plant anywhere in the world.
16 The City of Yes for Carbon Neutrality Zoning
17 Amendment, which will significantly increase the
18 available space for solar and battery storage in the
19 city. I'd like to express my gratitude to the Council
20 for passing this important reform.

21 We are also working to expand and sustain
22 a green workforce in the city, including new energy
23 specific civil service titles, offering professional
24 development courses in renewable energy and
25 partnering with schools to develop educational

2 programming centered around solar PV systems
3 installed on school roofs.

4 Finally, the Administration released
5 PlaNYC, Getting Sustainability Done, and PowerUp, the
6 City's long-term energy plan, which together lay out
7 concrete steps the City will take to increase solar
8 and battery storage in the city, including creating a
9 plan to repair priority City buildings' roofs and
10 identifying and assessing sites for battery storage.

11 In addition to expanding our solar
12 portfolio, we are also ramping up the City's battery
13 storage capacity. Expanding that capacity is
14 essential to ensuring the reliability and resilience
15 of our grid as the City transitions away from fossil
16 fuels and increases its electricity use. Last year,
17 the New York Independent System Operator, NYISO,
18 found that the New York City area could face a grid
19 reliability deficit as large as 446 megawatts
20 beginning in summer 2025 due to a forecasted increase
21 in peak energy demand and the unavailability of
22 certain fossil fuel generators. To this end, DCAS and
23 partner agencies have completed several battery
24 storage installations and have even more in the
25 pipeline. So far, the City has installed

2 approximately 0.28 megawatt of battery storage on
3 City properties, including four libraries, the
4 Brooklyn Army Terminal, Red Hook Recreation Center,
5 and six FDNY firehouses. Through our NYPA
6 partnership, we have three large-scale projects in
7 development at NYC DEP that will exponentially
8 increase battery capacity on City property, adding
9 approximately 19 megawatts of capacity, Spring Creek
10 is 5 megawatts, Wards Island 10 megawatts, and
11 (INAUDIBLE) in Westchester, which is 4 megawatts.
12 Finally, thanks to the passage of the City of Yes
13 zoning amendment referenced earlier, we have 5 more
14 megawatts worth of projects on school properties that
15 can now move forward.

16 While we are ramping up battery storage
17 on City property, the City is also committed to
18 catalyzing development of citywide battery storage on
19 both public and private property. DCAS recently
20 released a request for information to private
21 developers seeking more information about their needs
22 and what would enable them to develop more storage in
23 New York City. The City is also participating in the
24 review of the New York State Energy Research and
25 Development Authority's, NYSERDA, Energy Storage

2 Roadmap, which, if approved, will support a build out
3 of 4.7 gigawatts of storage deployments in the state.
4 Widening our lens beyond just City-owned property,
5 our colleagues at the Mayor's Office of Climate and
6 Environmental Justice are doing a tremendous amount
7 of work to catalyze storage and solar capacity
8 citywide. The City set a goal to install 500
9 megawatts of various battery storage capacity
10 citywide by 2025, and we already have 448 megawatts
11 of solar installed citywide. The cost to install
12 solar PV in New York City has decreased significantly
13 in recent years, making it viable in more locations.
14 MOCEJ has and will continue to advocate that
15 incentives be tailored to accommodate New York City's
16 unique, dense urban environment and see that a fair
17 share of state and federal funds supporting solar and
18 storage development reach New Yorkers. For example,
19 last legislation session, the City supported the
20 state bill that would extend and expand the solar and
21 storage property tax abatement, which creates
22 improved pathways for all New Yorkers to access the
23 benefit of renewable energy. To keep pace with this
24 increased funding, MOCEJ works closely with the
25 Sustainable CUNY Ombudsman program to ensure private

2 developers have access to technical support
3 throughout the permitting process.

4 I would like now to turn to the
5 legislation being considered today. Intro. number 353
6 by Council Member Nurse would require DCAS in
7 coordination with MOCEJ to complete the installation
8 of 100 megawatts of solar PV systems on the roofs of
9 City-owned buildings by the end of 2025 and 150
10 megawatts on the roofs of City-owned buildings and
11 other properties by the end of 2030. This bill would
12 also prohibit the use of power purchase agreements in
13 satisfying the solar PV system targets. The
14 Administration supports the spirit of this bill and
15 is committed to setting ambitious targets for solar
16 PV installation on viable City buildings and other
17 properties. However, we want to work with the Council
18 to establish mandates that are both ambitious and
19 achievable. We will also want to ensure that all
20 tools remain available to us to deliver solar PV
21 project in as quick, efficient and cost-effective
22 manner as possible, including PPAs. PPAs are
23 effective project delivery vehicles that have helped
24 DCAS scale up our solar installations. Losing the
25 ability to use them to achieve our solar installation

2 mandate would severely hamper our ability to meet the
3 mandates in this bill.

4 Intro. number 354 by Council Member Nurse
5 would require DCAS in coordination with MOCEJ to
6 develop a plan to achieve at least 300 megawatts of
7 storage on City-owned lots by the end of 2030 and 400
8 megawatts by the end of 2035. Once again, the
9 Administration supports the spirit of this bill and
10 is committed to reaching ambitious levels of battery
11 storage installation on viable City-owned property.
12 However, the megawatt targets set in the bill are
13 infeasible given how early we are in battery storage
14 expansion citywide and the physical and operational
15 constraints with battery storage. We have a lot yet
16 to learn and believe it would be premature to set a
17 battery storage target at this early juncture.

18 Intro. number 129 by Council Member
19 Brannan would mandate that DCAS install all solar
20 canopies and electric vehicle charging equipment at
21 each City-controlled parking lot. We welcome a
22 discussion on the parameters of a pilot program to
23 determine if solar canopies might indeed be cost-
24 effective. Today, the City has one solar canopy with
25 charging in place. From a pilot, we would seek to

2 understand the relationship between the cost of a
3 canopy and the value to the City produced by such.
4 Among other items, the cost of a canopy must consider
5 total cost per canopy install, staff and time
6 required per install, the required maintenance and
7 repair work overhead, and the varying warranties and
8 expected useful life for different parts of canopies
9 that would impact costs.

10 Lastly, Intro. number 347 also by Council
11 Member Nurse would exempt solar installations from
12 any fees in connection with an application for a
13 street crane permit for such installations. The
14 Administration would like to discuss this bill with
15 the Council further to better understand the intent.
16 In general, the City has not seen any indication that
17 crane fees are an impediment to the installation of
18 solar PV system on private property. Further, fees
19 serve an important purpose for the City in ensuring
20 it can recoup cost for its services, and the
21 Administration would not want to set a precedent of
22 waiving such fees.

23 We appreciate the support you have shown
24 for our work, and we look forward to continuing our
25 partnership with the Council in expanding the City's

2 solar and battery storage capacity. I am happy to
3 answer any questions the Committee has. Thank you.

4 ACTING CHAIRPERSON NURSE: Thank you.

5 Recognizing Council Member Bob Holden has joined us.

6 I'm going to get right into the
7 questions. You mentioned in your testimony, I was
8 reading and trying to eliminate any questions you
9 already answered to help us all enjoy our very sunny
10 Friday. Since 2022, you said you've added on about, I
11 think you said 1.5 megawatts in your testimony?

12 DEPUTY COMMISSIONER BARAKAT: Correct.

13 ACTING CHAIRPERSON NURSE: Okay. Can you
14 tell us how many buildings does that represent? I saw
15 you mentioned 155 in your testimony, but that's in
16 total inclusive of the additions since you've last
17 testified?

18 DEPUTY COMMISSIONER BARAKAT: Correct. 155
19 sites, 44 megawatts.

20 ACTING CHAIRPERSON NURSE: There's a
21 question on why these are not reflected on the
22 website and if it would be possible to have those
23 updates on the website.

24 DEPUTY COMMISSIONER BARAKAT: We will be
25 updating the website by the end of this month, and we

2 appreciate the comment, and we will start updating
3 them on a regular basis as the systems come online,
4 we will do that.

5 ACTING CHAIRPERSON NURSE: Okay. For the
6 50 megawatts that you've stated you plan to hit by
7 2025, how many buildings would that likely capture?

8 DEPUTY COMMISSIONER BARAKAT: Overall,
9 including the 24, it would be about 177 sites.

10 ACTING CHAIRPERSON NURSE: In total?

11 DEPUTY COMMISSIONER BARAKAT: Yes.

12 ACTING CHAIRPERSON NURSE: Okay, and
13 that's across schools?

14 DEPUTY COMMISSIONER BARAKAT: Across
15 schools, wastewater treatment plants like we
16 mentioned, city hospitals. The 1.5 actually was for
17 the first solar installment we accomplished on a City
18 hospital.

19 I don't know, Steve, what else, if you
20 want to help me out here?

21 ASSISTANT COMMISSIONER CAPUTO: Yeah, we
22 have cultural institutions, we have schools, we have
23 firehouses, we have a tremendous amount in the
24 pipeline, and just to clarify 170-plus sites are
25

2 representative of the 50 megawatts so we'll have over
3 300 total.

4 ACTING CHAIRPERSON NURSE: So 177 plus...

5 ASSISTANT COMMISSIONER CAPUTO: The 155
6 that are...

7 ACTING CHAIRPERSON NURSE: You've already
8 done.

9 ASSISTANT COMMISSIONER CAPUTO: Correct.

10 ACTING CHAIRPERSON NURSE: Great. In the
11 past, the Admin has testified that supply chain
12 issues from the pandemic have been an ongoing
13 challenge for the City's rollout of solar
14 installations. Is this an ongoing issue, and has
15 there been any indication that supply chains for
16 solar infrastructure will normalize, or do you
17 anticipate that these issues will persist for the
18 near future?

19 DEPUTY COMMISSIONER BARAKAT: Thank you
20 for that question. Yes, supply chain issues linger to
21 the state. In fact, it intensified since the
22 pandemic, and that's why we've been seeing delays in
23 getting equipment and the reason why we haven't
24 achieved the target that we wanted to achieve.

2 I don't know if, Steve, you want to add
3 anything?

4 ASSISTANT COMMISSIONER CAPUTO: Yeah, if I
5 could just add, these are extraordinary supply chain
6 issues. I know everyone is always talking about
7 supply chain issues, but we've had to wait a year and
8 in fact, many, over three dozen projects, we're
9 waiting six months for the type of equipment that
10 brings multiple strings of solar together, waiting up
11 to a year for inverters which allow the conversion of
12 the energy produced in solar to actually go into
13 buildings. It's truly extraordinary. It's both a
14 supply chain issue and tremendous new demand. The
15 federal incentives have really spiked demand, which
16 is a great problem, but it's made it harder for us to
17 get the projects that we've had in the queue done for
18 a long time, and we believe that we would have had
19 additional 15 or more megawatts done by today had
20 those supply chain issues not existed.

21 ACTING CHAIRPERSON NURSE: Thank you for
22 that. The PowerUp NYC report states that the City
23 will apply for funding from the U.S. Environmental
24 Protection Agency Greenhouse Gas Reduction Fund to
25 support its public solar initiatives. That fund

2 includes the U.S. Solar for All Competitive Grant
3 Program, which provides 7 billion for solar projects
4 specifically in low-income neighborhoods. The
5 deadline for municipalities to apply for a Solar for
6 All grant was September 2023. Did the Administration
7 consider using the Solar for All grant program to
8 fund its community solar and public solar programs?

9 DEPUTY COMMISSIONER BARAKAT: I will pass
10 it to Elijah to talk more about the EPA grant, but I
11 wanted to mention also (INAUDIBLE) that DCAS has also
12 taking advantage of the Inflation Reduction Act, and
13 we will be applying for those incentives as well for
14 our solar projects, and now it's Elijah's turn.

15 EXECUTIVE DIRECTOR HUTCHINSON: Thank you
16 for the question. Yes, we actually were able to
17 submit an application and we did so in conjunction
18 with NYSERDA and the State to make our application
19 more competitive. We will be finding out very soon
20 whether we were awarded. We're expecting those
21 application announcements to happen this spring, and
22 we applied for 60 million dollars to support the
23 public solar program.

24 ACTING CHAIRPERSON NURSE: Great. In the
25 2022 report, pursuant to Local Law 24 of 2016, DCAS

2 stated that the City had 46.3 megawatts of solar
3 capacity in progress with the expectation that it
4 would surpass 20 megawatts of installed solar
5 capacity by the end of Calendar Year 2022 and 40
6 megawatts by the end of 2023. I don't know if this is
7 the same question, but it's highlighted, so I want to
8 make sure I ask it and not upset Jim. How many
9 megawatts of solar capacity from those projects have
10 come online?

11 DEPUTY COMMISSIONER BARAKAT: As of
12 December of 2023, we were at 24 megawatts, and like
13 we mentioned before, we have about 50 megawatts in
14 our pipeline. We expect to have those implemented by
15 2025. We are also planning to be at 70 megawatts if
16 conditions stay the same, and we would be at 70
17 megawatts in 2027 and 100 megawatts in 2030.

18 ACTING CHAIRPERSON NURSE: Thank you.
19 MOCEJ has stated that the City will develop a
20 community solar pilot on three to five City-owned
21 properties. This pilot will provide discounts to
22 households that subscribe to the pilot in
23 disadvantaged communities. When is this project
24 expected to come online?

2 EXECUTIVE DIRECTOR HUTCHINSON: We
3 currently don't have an exact date for when that
4 project is scheduled to come online, but with the
5 grant award for public solar, we'll be developing a
6 program model to launch public solar in general,
7 which will help inform how we launch the community
8 solar programs.

9 ACTING CHAIRPERSON NURSE: How many
10 households would roughly that include?

11 EXECUTIVE DIRECTOR HUTCHINSON: The public
12 solar would service about 5,000 households in low- or
13 moderate-income populations.

14 ACTING CHAIRPERSON NURSE: Okay.
15 Separately, the City has announced a public solar NYC
16 program that would provide low-income homeowners with
17 financing and technical assistance to install solar
18 panels. What kind of intentional outreach and
19 financial assistance will the City provide to
20 selected homes?

21 EXECUTIVE DIRECTOR HUTCHINSON: We have
22 the benefit of having a one-stop-shop resource for
23 anyone who's interested in either doing Local Law 97
24 retrofits or installing solar or other renewable
25 technologies with their home with the NYC Accelerator

2 so that's at nycaccelerator.com. That's a really
3 helpful resource for us. If the accelerator
4 themselves can't handle the questions, we also
5 coordinate with NYSERDA on their clean energy hubs to
6 deal with a range of building types and owners to
7 direct them to the available resources that we have.

8 ACTING CHAIRPERSON NURSE: Are you all
9 doing events in these specific communities?

10 EXECUTIVE DIRECTOR HUTCHINSON: Yes, we
11 have we have various events that do outreach for
12 either creating educational materials or having
13 planned events including District events.

14 ACTING CHAIRPERSON NURSE: How many do you
15 do a year?

16 EXECUTIVE DIRECTOR HUTCHINSON: I can find
17 that answer and get back to you..

18 ACTING CHAIRPERSON NURSE: (INAUDIBLE) the
19 followup.

20 EXECUTIVE DIRECTOR HUTCHINSON: Sure.

21 ACTING CHAIRPERSON NURSE: Would the
22 public option be executed through a power purchase
23 agreement?
24
25

2 DEPUTY COMMISSIONER BARAKAT: We have many
3 procurement mechanisms that we use, one of them as
4 being the PPA.

5 ACTING CHAIRPERSON NURSE: Okay, and how
6 will the City ensure that property owners receive a
7 proportionate share of those benefits?

8 EXECUTIVE DIRECTOR HUTCHINSON: As part of
9 the grant for public solar and the energy savings
10 associated with it, it's a requirement of the grant
11 agreement that the reductions in energy utility costs
12 be 20 percent of what they're used to paying so
13 that's a requirement of the grant itself and how we
14 design around the program.

15 ACTING CHAIRPERSON NURSE: Okay. I just
16 have three questions, and then I'm going to turn it
17 over to Council Member Holden.

18 You mentioned the support for the intent
19 of Intro. 353 on solar power, but you have concerns.
20 Can you tell us how you utilize the power purchase
21 agreement and how it helps DCAS increase the rate of
22 installations?

23 DEPUTY COMMISSIONER BARAKAT: Yeah, like I
24 mentioned my testimony, the PPAs are a very important
25 tool for us because it has helped us speed up the

2 implementation of the project. It's a much more cost
3 effective and a much faster process, especially in
4 our financial crisis and the capital budget
5 constraints that we have. It's been good for us, and
6 the one great advantage is that when you're doing a
7 PPA, actually the developer is taking ownership of
8 the asset and also operating it and maintaining it,
9 and they do a great job because there is an incentive
10 right to do well with it so it's been a great tool
11 for us.

12 Steve, if you want to add more.

13 ASSISTANT COMMISSIONER CAPUTO: Yeah, if
14 you don't mind, just a followup on that.
15 Historically, the reason why we gravitated towards
16 power purchase agreements is that the City wasn't
17 eligible for the federal tax incentives because we're
18 not taxable so the model of a PPA brought together a
19 developer that had tax equity interest and then they
20 monetize it so we get the savings. That's changed
21 since the IRA so we're very interested in preparing
22 to issue some large-scale procurements for capital
23 funds. The other reason PPAs have been very helpful
24 is it enabled us to get to scale quickly. At the
25 time, we only could do one project at a time through

2 capital, PPAs allowed us to do dozens at a time. I
3 also want to emphasize that we've paid a lot of
4 attention to labor standards in the PPAs. They're all
5 subject to prevailing wage. Broadly speaking, we've
6 now negotiated and entered into an agreement with the
7 building trades for union electricians, and our
8 current PPA is not subject to that actual agreement,
9 but it's all a union job so we're very attentive to
10 that as well.

11 ACTING CHAIRPERSON NURSE: You're saying
12 cost-effective, but could you just gimme a little
13 more detail, by how much percent is it more expensive
14 to do it in another fashion?

15 ASSISTANT COMMISSIONER CAPUTO: Sure. On
16 average our capital costs are about 9 dollars per
17 watt, and our PPA costs are about 4 dollars a watt so
18 it is really extremely cost-effective. The other
19 thing, and it's particularly valuable now with our
20 capital constraints, it requires no upfront
21 investment. It's all paid for through our energy
22 bills.

23 ACTING CHAIRPERSON NURSE: The DCAS solar
24 installations on public buildings, are those
25 completed with union labor?

2 ASSISTANT COMMISSIONER CAPUTO: It would
3 be case specific. Some of them go back into the
4 1990s, but any procurement that we do directly is
5 subject now to the project labor agreement that we
6 directly entered into with the Construction Trades
7 Council and also Local 3, and it was really
8 transformative because up until that point, there was
9 a lot of tension and lack of being on the same page
10 and the industry has really developed since then as a
11 result of this PLA so yes, any of our direct
12 procurements will be union labor.

13 ACTING CHAIRPERSON NURSE: Okay. I'd love
14 to request in the followup that you could give us a
15 breakdown of just how many have been done, how many
16 union contractors have been used so we could just
17 have that.

18 DEPUTY COMMISSIONER BARAKAT: Sure.

19 ACTING CHAIRPERSON NURSE: Even for the
20 old projects.

21 Lastly, you mentioned that you support
22 the intent of 354, but you have concerns about just
23 the ambitious targets. MOCEJ's PowerUp NYC report
24 says we had the potential for this amount of energy
25

2 storage so could you just clarify your position a
3 little bit more?

4 DEPUTY COMMISSIONER BARAKAT: Sure. You
5 want to take it?

6 EXECUTIVE DIRECTOR HUTCHINSON: Sure.
7 Within PowerUp, that was a first of its kind look
8 across the city for available sites where we would
9 determine where there's feasibility. We wouldn't
10 expect the maximum number of sites to be all
11 available for storage. There are other feasibility
12 constraints like interconnection issues and
13 permitting with site safety constraints as well so we
14 would have to continue to do a pass at what is
15 feasible out of those 400 sites?

16 ACTING CHAIRPERSON NURSE: It sounds like
17 it just needs more analysis.

18 EXECUTIVE DIRECTOR HUTCHINSON: That's
19 correct. It needs more analysis.

20 ACTING CHAIRPERSON NURSE: Okay. I'm going
21 to turn it over to Council Member Holden for
22 questions you have.

23 COUNCIL MEMBER HOLDEN: Thank you, Chair,
24 and thank you for your testimony.

2 A couple of questions, because you
3 mentioned in your testimony about the electrical grid
4 reliability. We're going to face problems next year
5 in fact. My District probably leads the city in
6 blackouts and brownouts. Our electrical grid, and
7 I've been on Con Edison's case for quite some time to
8 upgrade and especially to bury some of the lines
9 because most of my District, a good part of it, has
10 overhead wires, electrical, and then we had so many
11 causes of blackouts, the latest being a squirrel and,
12 yeah, it's not funny though when you're blacked out
13 for a whole day because of a squirrel and but we also
14 have, if we get 30 miles an hour winds, we get
15 knocked out. It was a big problem on a Friday night,
16 months ago, rush hour, where we had winds of 35 miles
17 an hour and rain, and we were blacked out, the entire
18 District was blacked out. What happened? Our traffic
19 lights were out, every traffic light on a Friday
20 night, just try to imagine, Friday night, 5 o'clock,
21 rush hour starts, and it's a problem, the winds and
22 so forth, and rain. People couldn't cross the street
23 because there were no traffic lights, no walk signs,
24 nothing. I've been on DOT about this, and certainly I
25 think you guys can help, because I go to other cities

2 and you look at, even their stop signs have lights
3 around it when they're kind of hidden or at least
4 many people don't know about it or the visibility is
5 off, they put solar-powered lights around their stop
6 signs. Some of their traffic lights have solar
7 backups at least or are powered by solar. I would
8 think the cost would drop of installing devices, and
9 I don't know if you worked with DOT because I've been
10 asking DOT to come up with a plan to show us how not
11 only to back up the, obviously, the blackouts, but to
12 increase the solar canopy and capacity in the
13 District by coming up with ideas to solar-powered
14 safety devices, pedestrians, we're seeing an increase
15 of pedestrians struck and killed because of, and it
16 has to do with sometimes visibility because there's
17 so many, if you look at our streets, there's so many
18 signs now, and we don't highlight one, maybe with a
19 light, with a solar powered light, so have you worked
20 with, to make, I know I'm getting into a very long
21 question here, but I just had to lay the foundation.
22 Are you working with DOT? Did they contact you about
23 solar items, street furniture, traffic signals, even
24 safety devices that would be solar-powered because
25 again, when the grid goes down, electrical grid, I'm

2 out, and safety is paramount. For a whole night,
3 people were complaining that they couldn't even cross
4 the street because the traffic kept going and there
5 were no traffic lights. I would think that the
6 greatest city in the world, the one that leads in
7 technology, would have solar backups for many of our,
8 and I know this is off topic slightly, but I don't
9 know if you're prepared to answer that, but what
10 would you say?

11 DEPUTY COMMISSIONER BARAKAT: It is
12 definitely a DOT question, but I want to say that we
13 work with DOT on a lot of the energy efficiency
14 projects and actually we have a meeting coming up
15 with them and we can bring it up and let them know of
16 your concerns.

17 COUNCIL MEMBER HOLDEN: But they haven't
18 brought it up to you.

19 DEPUTY COMMISSIONER BARAKAT: Not yet but,
20 like I said, DOT is the next agency we're meeting
21 with.

22 COUNCIL MEMBER HOLDEN: This is what I
23 mean. This is what I mean. I'm running out of time to
24 try to get some, so if you could bring it up, I would
25 appreciate it, and then if you can get back to the

2 Committee, because this should be a priority. If
3 you're saying that the electric grid is going to be
4 inadequate by next year, we need to prepare, and
5 these are small items. I don't think they're, again,
6 I don't know the cost, but I wouldn't think a small
7 solar panel, in other cities the panels, I mean they
8 don't look very large to power a light ring around
9 the stop sign to make the corner safer, and there's
10 so many in some cities that, and some are in the
11 south, some are in the north, so it's not really a
12 question. I know in certain areas, like in Manhattan,
13 you might have a problem because sunlight is a
14 commodity, but if you could bring that up, if you can
15 come up with some suggestions on cost and even to the
16 point I'm willing to even fund some projects that
17 would make my District safer to cross the street and
18 certainly in an emergency.

19 DEPUTY COMMISSIONER BARAKAT: Yeah, thank
20 you for that, and I just want to emphasize again that
21 DOT may be working on it separately and not coming to
22 us. That could happen. They could be doing something
23 independently than taking funds from our agency.

24 COUNCIL MEMBER HOLDEN: Yeah. I did speak
25 to OEM about it so they said they would push DOT and

2 try to work with them, so you can also check with OEM
3 because I complained to them first about this, that
4 we don't have no solar powered, when I asked the
5 question, they couldn't answer it, but they have no
6 solar-powered safety devices, which I think should
7 be, certainly there should be thousands around the
8 city now already installed. Thank you. Thank you so
9 much, Chair.

10 ACTING CHAIRPERSON NURSE: Thank you,
11 Council Member Holden. Council Member Avilés.

12 COUNCIL MEMBER AVILÉS: Thank you, Chair.
13 Thank you, everyone, for being here today.

14 I'd like to talk a little bit about
15 peaker plants. I represent a District that is home to
16 what was supposed to be a temporary peaker plant,
17 which has become a permanent fixture, and we all know
18 how highly polluting these plants are. I'd like to
19 know is the Administration considering technology
20 such as battery energy storage systems and how they
21 can increase grid reliability to accelerate the
22 decommissioning of the peaker plants, and if you
23 could give us an update on where that process is.

2 DEPUTY COMMISSIONER BARAKAT: Sure, that's
3 a very important issue, and I'll have Elijah answer
4 it.

5 EXECUTIVE DIRECTOR HUTCHINSON: Hi, thank
6 you for that question. I really appreciate it, and we
7 share your concerns. The City is very concerned with
8 the implications of keeping these peaker plants
9 online. They're largely sited in environmental
10 justice communities, as you stated, that already
11 suffer from significant air quality issues and
12 extreme heat so we're prioritizing creative solutions
13 that will lead to the closure of these plants as
14 quickly as possible. One of these is through battery
15 storage deployment, and the Administration is
16 absolutely considering how we can have technology
17 such as battery storage, increased grid reliability
18 and speed up the decommissioning of these peaker
19 plants as soon as possible.

20 COUNCIL MEMBER AVILÉS: Are there any
21 particular upcoming milestones that we're hoping to
22 meet to make sure that we do this as quickly and as
23 urgently as it's needed. I heard we're planning a
24 lot. I heard no specificity so I'd love any
25 specificity you could give.

2 DEPUTY COMMISSIONER BARAKAT: I'll pass it
3 to my colleague, Lydia, for some more details. Thank
4 you.

5 POLICY ADVISOR WIENER: Hey, everybody. My
6 name is Lydia Wiener. I'm a Policy Advisor at MOCEJ.

7 COMMITTEE COUNSEL MACLACHLAN: Excuse me,
8 Lydia. Can you please raise your right hand?

9 Do you affirm to tell the truth, the
10 whole truth, and nothing but the truth before this
11 Committee and to answer honestly all questions?

12 POLICY ADVISOR WIENER: Yes. Thank you,
13 Council Member, for that question. In terms of
14 getting these peaker plants offline, two of the
15 biggest projects that we are looking forward to that
16 will accelerate getting the plants offline are the
17 two transmission lines that will be bringing
18 renewable power both from Canada and from Upstate New
19 York. One of those being the Champlain Hudson Power
20 Expressway, or Chippie, as lots of us like to call
21 it, and that is right now expected to come online in
22 the spring of 2026 so that is the first major
23 milestone of big projects that will accelerate
24 getting these offline among, of course, a number of
25

2 smaller initiatives that we're pushing, but that's
3 major.

4 COUNCIL MEMBER AVILÉS: Just for clarity,
5 is that for Astoria? Is that for that plant or is it
6 specific to a particular peak or facility?

7 POLICY ADVISOR WIENER: The addition of
8 the power from that one transmission line well
9 exceeds the reliability deficit that the NYISO has
10 projected for 2025 so all of those plants that were
11 slated to come offline in 2025, once that comes
12 online we'll have that additional capacity.

13 COUNCIL MEMBER AVILÉS: Thank you.

14 ACTING CHAIRPERSON NURSE: Thank you,
15 Council Member.

16 Just while we're on battery energy
17 storage systems, what are reasons that energy storage
18 system permits get delayed, and what can the Council
19 do to help reduce delays if there are any
20 recommendations.

21 DEPUTY COMMISSIONER BARAKAT: I don't know
22 if Elijah wants to talk about this, but permitting is
23 a DOB question, so we defer to DOB for that. Unless
24 you have something to say.

2 EXECUTIVE DIRECTOR HUTCHINSON: Yeah, we
3 recognize a lot of the frustrations around the
4 permitting and we're closely coordinating with the
5 other agencies, the permitting and regulatory
6 agencies involved with DOB and FDNY in those battery
7 storage questions and convening with them so that we
8 can understand what are the issues and what we can do
9 to solve it.

10 ACTING CHAIRPERSON NURSE: What has DCAS
11 learned from its energy storage pilot program, if
12 there's anything you want to share with us. Big
13 takeaways.

14 DEPUTY COMMISSIONER BARAKAT: I just want
15 to say that we still are very excited about the pilot
16 program because with the pilot, you learn a lot,
17 right? All the lessons learned that you get from the
18 pilot, you would apply it to larger scale systems,
19 right, and that's the idea, and it's been great
20 because the lessons learned include the challenges
21 that you would have with installing storage systems,
22 interconnection, we learned about the cost, we
23 learned about O and M issues and so on. All these
24 lessons, obviously, are going to be used to further
25 the scaling of our projects.

2 ACTING CHAIRPERSON NURSE: I was going to
3 ask approximately how much does it cost to install a
4 battery energy storage system. I understand they're
5 probably different variables, but like on average on
6 what you're looking to roll out, what would you say
7 is about an average cost of a system?

8 DEPUTY COMMISSIONER BARAKAT: Yeah, again,
9 based on what historical data that we have, about 24
10 million is what we're seeing now, up to 24 million.

11 ACTING CHAIRPERSON NURSE: Per site?

12 DEPUTY COMMISSIONER BARAKAT: Per site,
13 and depends on the condition of the site, obviously.

14 ASSISTANT COMMISSIONER CAPUTO: Just to
15 further add to that, that's for about a 5-megawatt
16 system. We have, and as we said and as the Deputy
17 Commissioner said in her testimony, we don't yet have
18 experience building at that scale, but that's why we
19 have about almost 20 megawatts under development now,
20 and we're going to learn a lot about that now.

21 ACTING CHAIRPERSON NURSE: Okay. I have
22 just one more question related to the cost of that.
23 How does the price change as storage capacity
24 increases? What is the typical cost of a battery
25

2 energy storage system that might be installed behind
3 the meter of a residential or commercial building?

4 DEPUTY COMMISSIONER BARAKAT: The cost for
5 residential, I think, is doubled, if I remember
6 correctly then, I want to say, 50k to 100k, if I
7 remember correctly and for commercial, it could be
8 even more than that.

9 ACTING CHAIRPERSON NURSE: Okay. If you
10 could send that.

11 DEPUTY COMMISSIONER BARAKAT: We will
12 follow up, yeah.

13 ACTING CHAIRPERSON NURSE: That would be
14 helpful.

15 Okay. I have some questions on behalf of
16 Council Member Gennaro.

17 Under Local Law 97, New York City is
18 required to reduce greenhouse gas emissions from the
19 government operations by 40 percent by 2025. The
20 Administration has admitted they are not going to
21 meet that requirement. At our December EPRW hearing,
22 Chair Gennaro asked DCAS to provide a roadmap by
23 March 12th of this year for how they plan to meet
24 that requirement and when they will meet it since
25 they won't make the 2025 deadline. Committee Staff

2 have spoken with CLA several times about this. We've
3 been told that DCAS has a letter addressing this,
4 although they haven't disclosed to Committee Staff
5 what the letter says. If you all want to respond in
6 terms of when that roadmap would be available to the
7 Committee.

8 DEPUTY COMMISSIONER BARAKAT: Sure. So
9 Chair Gennaro had given us a date of March 12th at
10 December hearing, and we are on target to give the
11 answer by then, and the reason why we need a bit more
12 time, not because we don't have projections, we do
13 have the projections, we have a model, of course, and
14 we have the projections. However, as you know, there
15 have been some development since the last hearing,
16 including the fiscal situation that we're in so we
17 want to make sure we're giving you an accurate
18 projection, and we are in discussions with OMB now on
19 the next plan to see what might be the possibilities
20 maybe of restoring funds or things like that so we
21 want to give you an accurate number and are on target
22 to do it by the 12th.

23 ACTING CHAIRPERSON NURSE: Okay. I just
24 have a couple questions about Council Member
25 Brannan's bill. Does the Administration believe that

2 there are any categories of City-controlled parking
3 lots where it would not make sense to install solar
4 canopies even if they are cost-effective?

5 DEPUTY COMMISSIONER BARAKAT: Parking lot
6 question. Brent, would you like to come up?

7 COMMITTEE COUNSEL MACLACHLAN: Can you
8 please state your name for the record?

9 ASSISTANT COMMISSIONER TAYLOR: Brent
10 Taylor.

11 COMMITTEE COUNSEL MACLACHLAN: Okay, raise
12 your right hand.

13 Do you swear to tell the truth, the whole
14 truth, and nothing but the truth, and to answer all
15 Council Member questions honestly?

16 ASSISTANT COMMISSIONER TAYLOR: Yes.

17 COMMITTEE COUNSEL MACLACHLAN: You may
18 proceed.

19 ASSISTANT COMMISSIONER TAYLOR: Hi, good
20 afternoon. There's certainly a lot of nuance between
21 the parking structures within the city as Council
22 Member Holden mentioned. Manhattan particularly is
23 very challenging. Right across the street at Elk
24 Street, we have a wide-open parking lot that's
25 buttressed by two buildings from the east and the

2 west side so the amount of sunlight that you're going
3 to get is going to be nominal during any portion of
4 the day. Other factors include grade. Also taking
5 that parking lot into account, it's got a pretty
6 significant grade that would require a really
7 significant construction project to bring it level so
8 those would not be the most ideal spaces. Also, the
9 height of construction that you're looking to
10 establish, in terms of what kind of vehicles could
11 plug into those chargers. Could we plug in heavy duty
12 or medium duty vehicles like last mile delivery
13 trucks and that sort of thing? Those are factors we
14 want to take into account as well as electrical
15 service going in. These solar canopies are grid-tied
16 so we are going to have to connect to the grid for
17 them and the access to the grid from where those
18 canopies would be installed is going to vary from
19 location to location. The complexity of the job is
20 going to vary quite a bit as well. So yes, we would
21 definitely take each parking location on a case-by-
22 case basis and evaluate it for the feasibility of the
23 installation.

24

25

2 ACTING CHAIRPERSON NURSE: Okay. Thank
3 you. I just have a few more questions, and then we're
4 going to turn it over.

5 Okay. Do you want to go ahead?

6 COUNCIL MEMBER AVILÉS: Thank you. Very
7 gracious, Chair.

8 I just wanted to follow back up on the
9 peaker plant question. Forgive me, you may have
10 answered this in your answer, but I may not have
11 fully grasped the response. In terms of the peaker
12 plants, does the Administration know how many
13 megawatts of additional battery energy storage in New
14 York City would allow us to decommission all the
15 peaker plants without sacrificing grid reliability?

16 POLICY ADVISOR WIENER: For that question,
17 battery storage alone cannot enable all of the peaker
18 plants to be decommissioned. It has to be a
19 combination of battery storage and added renewable
20 capacity to New York City's grid.

21 COUNCIL MEMBER AVILÉS: Do you know how
22 much we would need to, how much that would equal in
23 terms of the megawatt need?

24 POLICY ADVISOR WIENER: I think it depends
25 on the combination of the renewable assets that are

2 providing that capacity, but we can do some research
3 and get back to you with that.

4 COUNCIL MEMBER AVILÉS: Thank you. Thank
5 you, Chair.

6 ACTING CHAIRPERSON NURSE: Thank you. I
7 have one question about Intro. 353. How does DCAS and
8 MOCEJ plan to maximize solar tax credits now for the
9 first time available to municipalities for solar
10 installations on public buildings?

11 DEPUTY COMMISSIONER BARAKAT: As I
12 mentioned earlier, we are taking advantage of the
13 federal grant through the Inflation Reduction Act. We
14 are going to apply for the grant for the tax credit
15 that you mentioned. I believe it becomes available to
16 us at the end of March, so that's when we will be
17 applying for it.

18 ACTING CHAIRPERSON NURSE: Okay, thank
19 you. In your testimony, one of the things you
20 mentioned is you were working to expand and sustain a
21 green workforce in the city, and you said you had new
22 energy specific civil service titles. Can you share
23 what some of those are, some of those titles?

24 DEPUTY COMMISSIONER BARAKAT: I don't
25 recall all of them. I can get back to you with all

2 the titles, but it's very exciting because it's
3 really helping us get more resources.

4 ACTING CHAIRPERSON NURSE: No, it would be
5 great to know those jobs exist. A lot of us have been
6 trying to work and organize job fairs in our city to
7 fill a lot of these vacancies that we keep cutting
8 and so having those would be great to share with our
9 communities.

10 DEPUTY COMMISSIONER BARAKAT: We'll do
11 that.

12 ACTING CHAIRPERSON NURSE: Okay. Two more
13 questions, almost there. The PowerUp NYC report was
14 set to include the Renewable Rikers Energy Study, but
15 it was not part of the report. When does MOCEJ plan
16 to release the report?

17 EXECUTIVE DIRECTOR HUTCHINSON: We have
18 not set an exact date for releasing the report quite
19 yet, but we're planning to release it in this spring.

20 ACTING CHAIRPERSON NURSE: Spring. Very
21 exciting. We're all on the edge of our seat waiting
22 for that report.

23 EXECUTIVE DIRECTOR HUTCHINSON: Yes.

24 ACTING CHAIRPERSON NURSE: DCAS is now
25 managing land on Rikers Island transferred from DOC

2 to DCAS. However, while transfers were made in July
3 2021 and December 2021, no transfer was made in
4 either July 2022, December 2022, July 2023, or
5 December 23. When does DCAS expect the next land
6 transfer?

7 DEPUTY COMMISSIONER BARAKAT: Would you
8 like to answer? It is truly a question for DOC, but
9 we'll try to answer it.

10 ACTING CHAIRPERSON NURSE: I know, but
11 it's nice to get you guys in the room. I don't get an
12 opportunity to ask you like this directly.

13 COMMITTEE COUNSEL MACLACHLAN: Please
14 state your name for the record.

15 ASSISTANT COMMISSIONER BERK: Matthew
16 Berk.

17 COMMITTEE COUNSEL MACLACHLAN: Please
18 raise your right hand. Thank you.

19 Do you affirm to tell the truth, the
20 whole truth, and nothing but the truth before this
21 Committee and to respond honestly to Council Member
22 questions?

23 ASSISTANT COMMISSIONER BERK: Yes. Thank
24 you for the question, Council Member. I would just
25 like to point out that while DCAS is the agency that

2 would receive transfer of the property, it's up to
3 the holder agency to proactively come to us and
4 request the assignment. At this point in time, we
5 don't have a date yet from the Department of
6 Corrections when the next transfer will be.

7 ACTING CHAIRPERSON NURSE: Great. For the
8 pieces of land that you do have and hold, do you have
9 any plans for those?

10 ASSISTANT COMMISSIONER BERK: I'd have to
11 defer to my colleagues who are working on Greater
12 Rikers plans.

13 ACTING CHAIRPERSON NURSE: Okay. Thank
14 you. Last question on the wastewater treatment plant
15 report. When will we see that?

16 ASSISTANT COMMISSIONER BERK: That is from
17 a DEP study that is a feasibility study for the
18 wastewater recovery facility also on Rikers Island
19 that wasn't anticipated to be released until this
20 spring as well so we'll release both of those studies
21 together.

22 ACTING CHAIRPERSON NURSE: Okay. Looking
23 forward to that.

24 Thank you so much for being here. I was
25 trying to bounce around. I had very little time to

2 review these before taking over so thank you for
3 bearing with a little bit wonky hearing, but that
4 will be the end of our questions.

5 DEPUTY COMMISSIONER BARAKAT: Thank you so
6 much.

7 COMMITTEE COUNSEL MACLACHLAN: We will now
8 turn to public testimony. Each panelist will be given
9 three minutes to speak.

10 Panelists are reminded that they may
11 speak only on topics related to the hearing.

12 Please note that public witnesses are not
13 permitted to film themselves as they testify nor are
14 they permitted to show pre-recorded video as part of
15 their testimony.

16 For panelists testifying in person,
17 please come to the dais as your name is called and
18 wait for your turn to speak.

19 For panelists who are testifying
20 remotely, once your name is called, a Member of our
21 Staff will unmute you and the Sergeant-at-Arms will
22 give you the go-ahead to begin. Please wait for the
23 Sergeant to announce that you may begin before
24 delivering your testimony.

2 Our first in-person panel will be Ben
3 Dorman with Climate Jobs NY, Flandersia Jones with
4 New York State Nurses Association, and Richard
5 Mantell with UFT.

6 BEN DORMAN: Thank you, everyone. Thank
7 you, Members of the Committee. Thank you, Members of
8 New York City Council. My name is Ben Dorman. I'm the
9 Deputy Director of Climate Jobs New York, and we
10 direct the Carbon Free and Healthy Schools campaign
11 here in the city. Our union coalition is made up of
12 municipal public sector unions like UFT, DC37 CSA as
13 well as private sector unions within the building and
14 construction trades, 32BJ and NYSNA.

15 Every day, these members work across the
16 city to help keep things running, and they know more
17 than anyone that we need to invest in improving our
18 City buildings right now. They have also seen
19 firsthand the effects of climate change worsen with
20 super storms like Hurricane Sandy, extreme heat, and
21 wildfire smoke that we all saw as recently as this
22 past summer. If we continue to wait to act, the cost
23 of recovering will only rise. Our coalition is
24 committed to making sure that we leave the planet a
25 better place for the next generation, and we hope to

2 capitalize on the opportunity for federal and state
3 funding incentives that are available right now so we
4 also welcome the support and the willingness of the
5 Mayor and his Administration to work with us to find
6 solutions, and we urge the Council and this Committee
7 to support the legislation proposed by Council Member
8 Nurse today. This legislation to rapidly scale up
9 solar installations on public buildings is a huge
10 step to promote sustainability, create good jobs, and
11 solidify the financial health of the city. Currently,
12 buildings within New York represent 80 percent of our
13 total greenhouse gas pollution, and that means that
14 public buildings and schools represent a massive
15 opportunity for us to transition our energy sources
16 to renewable technology like solar power. With this
17 legislation, we can significantly reduce our carbon
18 footprint and mitigate the adverse effects of fossil
19 fuel pollution in our communities. In addition, by
20 enacting this legislation, the City can create
21 family-sustaining jobs for workers right here in our
22 city. To complete these solar installation projects,
23 we will bring people into the renewable energy
24 workforce of the future, and in this way, we can
25 transition to a green energy economy while uplifting

2 communities most affected by the devastating impacts
3 of climate change. Investing in solar installation on
4 public buildings will also produce major cost savings
5 for the City. By reaching 100 megawatts of publicly
6 owned solar alone, New York City can produce energy
7 cost savings of, according to our estimates, around
8 12 million dollars per year. Then on top of that,
9 once we reach 150 megawatts, the City could save
10 20,405,000 dollars per year. What that number would
11 represent is more than 600 million dollars over a 30-
12 year time span. Put very simply, passing this
13 legislation will pay for itself more than twice. We
14 want to be able to provide that cost savings to the
15 City to reinvest in public services across the board
16 so we hope to take this huge step to invest in our
17 future and build a more sustainable, equitable, and
18 resilient economic future. Thank you.

19 FLANDERSIA JONES: Good afternoon. My name
20 is Flandersia Jones. I live in the Bronx and work at
21 BronxCare Health System. As a nurse serving the
22 vibrant communities of New York City and as a
23 director at large of the New York State Nurses
24 Association, I am here in support of Intro. 0353,
25

2 requiring the installation of solar systems on the
3 roofs of City-owned buildings.

4 Healthcare professionals know we need to
5 act on climate change now. We witness firsthand the
6 precautions of environmental degradation on public
7 health. Nurses work daily in New York City buildings,
8 we send our children to public schools, and we live
9 in communities that have seen the effect of pollution
10 and extreme weather events. The climate crisis is a
11 public health crisis. We see its manifestations in
12 exacerbated respiratory illnesses due to air
13 pollution, heightening incidences of heat-related
14 illnesses, and the psychological toll of natural
15 disasters. Clean air, land, and water are fundamental
16 prerequisites for good health. Yet, climate change
17 threatens the health and well-being of individuals
18 and communities. Extreme weather events such as
19 hurricanes, wildfires, record rainfall, and droughts
20 wreak havoc, disproportionately affecting vulnerable
21 populations. Investing in renewable energy
22 infrastructure reduces carbon emissions and creates
23 economic opportunities, resilience, and good paying
24 union jobs with benefits. As members of the New York
25 State Nurses Association, we advocate for a healthy

2 environment as a fundamental component of public
3 health. Now is the time to rally behind initiatives
4 that promote sustainability and resilience. Intro.
5 0353 aligns with our mission to safeguard our
6 patients' and community's health and being. I urge
7 you to support this vital legislation. Thanks for
8 holding this hearing today.

9 RICHARD MANTELL: Hi, my name is Rich
10 Mantell. I'm Vice President of the UFT, and one of
11 the coordinators of the Carbon Free and Healthy
12 Schools Campaign. Thank you, Council Member Nurse,
13 for holding this hearing today.

14 The UFT is thrilled to be here in support
15 of Intro. 353 in relation to the installation of
16 solar panels on City-owned property that will
17 prioritize schools and other City-owned property in
18 disadvantaged areas and bar the use of power purchase
19 agreements. This is a moment we can go big, enlisting
20 federal support and building on earlier work to put
21 solar on New York City schools and implementing
22 energy efficiency retrofits and solar power across
23 our school buildings. Together, we can make New York
24 City schools a model of green infrastructure, make
25 schools healthier and safer for students and school

2 community, create good union jobs, and save millions
3 in energy costs. With Intro. 353, we can
4 simultaneously improve working and learning
5 conditions for educators and students alike, increase
6 wages, create good union jobs and pathways for
7 students to get good union jobs, and create hubs of
8 energy and community resilience. Money from the Biden
9 administration's 2 trillion infrastructure plan to
10 tackle climate change is available, and we cannot
11 miss out on this opportunity. We can use these funds
12 to make all of our schools' buildings clean and
13 green. Public schools are among the worst climate
14 polluters and largest emitters of greenhouse gases in
15 the city. Many of our school buildings need basic
16 repairs and upgrades from antiquated heating and air
17 conditioning systems to deteriorating rooftops to
18 outdated electrical grids. By investing in school
19 infrastructure, we can create tens of thousands of
20 good union jobs while making schools healthier and
21 safer, all while tackling climate change. With energy
22 efficiency retrofits and renewable power that cut
23 energy consumption by 50 percent, we can save more
24 than 100,000 tons of carbon emissions every year, the
25 equivalent of planting 400,000 trees or taking 20,000

1 cars off the road, and a critical step to reaching
2 the City's goal of an 80 percent reduction in carbon
3 emissions by 2050. Part of realizing the just
4 transition and job creation impacts of this campaign
5 is the proposed ban on the use of power purchase
6 agreements where a private sector company owns the
7 energy system installed in our public assets and is
8 responsible for installation, operations, and
9 maintenance. Solar energy in public buildings
10 financed through PPAs are not subject to project
11 labor agreements and instead follow labor practices
12 that are below quality job standards. PPAs do not
13 maximize the potential savings from solar. Rather,
14 they shift most of the cost-savings that come from
15 solar energy to private solar developers, thereby
16 reducing the City's ability to reinvest in
17 communities hit hardest by climate change. We
18 appreciated Mayor Adams support for healthy schools
19 and reinvesting the cost-saving from their own solar
20 power into ongoing maintenance and classroom
21 instruction during his campaign, almost done, and we
22 hope we can count on him to see that promise come to
23 fruition. Thank you.

2 ACTING CHAIRPERSON NURSE: Question from
3 Council Member Holden.

4 COUNCIL MEMBER HOLDEN: Thank you. Thank
5 you, Chair. You mentioned one school, PS62, has a
6 solar installation and who installed that?

7 RICHARD MANTELL: It's not just solar.
8 That particular school is the greenest school in the
9 city. It has underground water wells as well to help
10 heat. They have windows that are controlled by how
11 bright the sun is. They darken, they lighten to put
12 light in the building, and the School Construction
13 Authority built that.

14 COUNCIL MEMBER HOLDEN: They maintain it?
15 There's no power agreement with a company?

16 RICHARD MANTELL: Not that I'm aware of.

17 COUNCIL MEMBER HOLDEN: Okay. So it could
18 work?

19 RICHARD MANTELL: It does work.

20 COUNCIL MEMBER HOLDEN: Yeah. So it could
21 work, but I'm just saying if School Construction can
22 maintain the installation. How many schools have
23 solar installations? Do we know?

24 RICHARD MANTELL: I don't know the number
25 off the top of my head.

2 COUNCIL MEMBER HOLDEN: There are 1,750
3 schools.

4 ACTING CHAIRPERSON NURSE: It's 155
5 buildings, but that was inclusive of other City-owned
6 property. I thought it was 70 schools.

7 RICHARD MANTELL: It's less than 100. I
8 think you're right.

9 ACTING CHAIRPERSON NURSE: Yeah, I thought
10 it was 70.

11 RICHARD MANTELL: They put the solar
12 panels on when the roof is in need of repair so if
13 you can have a brand-new building, the roof is in
14 perfect condition, they won't put solar panels on it.

15 COUNCIL MEMBER HOLDEN: But I could see
16 other uses, let's say outdoor space over a schoolyard
17 or partial where they can go out in the rain even
18 because there's a cover so you actually, it's a
19 win/win, you have a canopy, it's a solar. I'm not
20 sure whether that's feasible, I'm just imagining.

21 RICHARD MANTELL: Sort of. In this
22 particular school, PS62, I mean they have a lot of
23 land. There's a parking area, and over the parking
24 area they put solar panels.

2 COUNCIL MEMBER HOLDEN: And it could pay
3 for itself, right? You said double, and how many
4 years would that be, or let's say, an installation at
5 one school? Do you have an idea?

6 RICHARD MANTELL: On the individual level?
7 No.

8 COUNCIL MEMBER HOLDEN: Yeah, on the, just
9 say installation of a school, 1,000 students, we'd
10 have to do some, obviously some calculations, but
11 just like a ballpark. You said, you had mentioned it
12 would pay for itself.

13 RICHARD MANTELL: Yeah, for the solar
14 installation bill, based on our analysis at the 100-
15 megawatt amount, for that goal at 2025, and then for
16 the 150 at 2030, it would pay for itself more than
17 twice.

18 COUNCIL MEMBER HOLDEN: And the larger the
19 building, let's say a school, a good-sized school,
20 with a lot of acreage, some schools go on and on,
21 there's several acres, that would be actually more
22 beneficial. You save, obviously the carbon footprint
23 you would save, but also paying for itself because
24 the more acreage you have, I guess, on a solar
25 installation, the more you're saving, and then,

1 especially in, schools in my District like I said,
2 the electrical grid earlier is horrendous. We lead
3 the city in blackouts so that would be beneficial,
4 and I would look to get my schools, at least, on the
5 list to be solar powered.
6

7 Now, do you know if there's any waiting
8 list for this, or is there any plan that DOE, along
9 with school construction, is installing?

10 RICHARD MANTELL: As I said, if a school
11 needs a new roof, they'll put solar panels on it when
12 they do the roof, but that's the only thing I know of
13 down the pipeline.

14 COUNCIL MEMBER HOLDEN: They only do that
15 when. The roof needs some work. Is it maintenance or
16 if they need a new roof?

17 RICHARD MANTELL: If they need a new roof.

18 COUNCIL MEMBER HOLDEN: If they need a new
19 roof. Not if they have to maintain it or, okay. Thank
20 you. Thank you all for your testimony.

21 ACTING CHAIRPERSON NURSE: Thank you,
22 Council Member Holden.

23 COUNCIL MEMBER MARMORATO: Can I ask a
24 question?
25

1
2 ACTING CHAIRPERSON NURSE: Oh, I'm sorry.
3 One more question.

4 COUNCIL MEMBER MARMORATO: I would just
5 like to ask one question. Now as far as the schools
6 are concerned, who funds this? Where does the funding
7 come from for the solar panels on the school?

8 RICHARD MANTELL: The Mayor's Office.

9 COUNCIL MEMBER MARMORATO: The Mayor's
10 Office? They will completely fund it on their own.
11 That's a great deal. No, I'm just saying.

12 ACTING CHAIRPERSON NURSE: That's what
13 we're fighting for is to get the money.

14 COUNCIL MEMBER MARMORATO: I wasn't sure
15 if it was going to come out of our capital.

16 ACTING CHAIRPERSON NURSE: It's part of
17 the City budget capital, and part of what we've been
18 advocating for is that the reason why we put this
19 legislation is because these folks have been fighting
20 for it, but there's also federal money that they're
21 trying to go for.

22 COUNCIL MEMBER MARMORATO: So it's coming
23 from different pots?

24 ACTING CHAIRPERSON NURSE: Cobbled. Yeah.
25

COUNCIL MEMBER MARMORATO: Okay. Thank
you.

ACTING CHAIRPERSON NURSE: Thank you all.

COMMITTEE COUNSEL MACLACHLAN: Our next
panel will be Jeffrey Wu with Climate Jobs National
Resource Center and Azucena Qadeer with TREEage.

ACTING CHAIRPERSON NURSE: Whenever you
all are ready.

Oh, and I also want to recognize Council
Member Gennaro is on the Zoom, which is great news. I
don't know if Council Member Gennaro wanted to say
anything.

CHAIRPERSON GENNARO: Sure, am I on? Can
people hear me?

ACTING CHAIRPERSON NURSE: We can hear
you.

CHAIRPERSON GENNARO: Am I coming through?

ACTING CHAIRPERSON NURSE: You are.

CHAIRPERSON GENNARO: Yeah. Okay. Well, I
just want to thank Chair Nurse for stepping in to
Chair while I was having medical treatment on my eye.
I just got back. I can't stay long. I thought it was
important to go forward with the hearing, to not
defer it. It's my understanding through my Chief-of-

1 Staff, Henry Yam, who was in the room that we've got
2 a lot of good testimony from the Administration, and
3 I thank you, Chair Nurse, for having the bills that
4 we're hearing today. Also, there's Council Member
5 Brannan's bill that's being heard. I don't want to
6 jump in with questions or anything because I haven't
7 heard the whole flow of the hearing. I want to thank
8 the new members of the Council. You should just know
9 that I'm not always going to be remote. Sometimes I'm
10 actually going to show up, okay, and with that said,
11 I'll end where I began, which is by thanking Chair
12 Nurse for stepping in and doing a great job Chairing
13 this hearing. She's a great Colleague, a great friend
14 and a real environmental hero, and I'm grateful to
15 have her as a Colleague so Sandy, here I am, getting
16 all familiar.

18 ACTING CHAIRPERSON NURSE: It's okay, Jim.

19 CHAIRPERSON GENNARO: Chair Nurse, go back
20 to doing what you're doing.

21 ACTING CHAIRPERSON NURSE: Thank you so
22 much. I'm glad to see that you're in good spirits and
23 coming out of a good doctor's appointment.

24 CHAIRPERSON GENNARO: You bet.

2 ACTING CHAIRPERSON NURSE: I asked all
3 your questions.

4 CHAIRPERSON GENNARO: Thank you so much.
5 And thank you, Claire, for being a great Counsel to
6 the Committee. She's wonderful, and don't you go
7 taking her, Sandy, because she's staying right here
8 with our Committee.

9 ACTING CHAIRPERSON NURSE: I have a hard
10 enough Committee so I'll leave Claire with you, but
11 thank you so much, Council Member.

12 CHAIRPERSON GENNARO: Thank you, Sandy.

13 ACTING CHAIRPERSON NURSE: When you're
14 ready.

15 JEFFREY WU: Honorable Members of the New
16 York City Council. My name is Jay Wu, and I'm a
17 Policy Analyst with Climate Jobs National Resource
18 Center. Our organization has state coalitions across
19 the country, and we support initiatives that will
20 build a clean energy economy, create good union jobs,
21 and improve equity in our communities. That's why we
22 strongly support Council Member Nurse's public solar
23 power bill, Intro. 353, because this bill is not only
24 a huge step towards building a green economy, it's
25 smart and practical for New York City, and the

2 quicker we move, the more funding we can draw from
3 federal and state programs to meet our climate goals
4 with cost-effective solutions. That's why we must
5 start now. At this moment, the federal government is
6 dedicating historic sums of funding through the 2022
7 Inflation Reduction Act, which includes a
8 groundbreaking policy called direct pay. Direct pay
9 is uncapped as-of-right cash incentive provided to
10 the public sector for building and owning renewable
11 energy projects. That means from now through 2032,
12 for every 1 million the City spends on solar, the
13 City gets 300,000 back in cash from the U.S.
14 Treasury. Renewables projects located in low-income
15 communities are potentially eligible for a further 10
16 to 20 percent of project costs, but this add is only
17 available through the end of 2024, making it all the
18 more urgent. In addition to federal funds, the City
19 could draw roughly 10 million from New York State's
20 Solar Incentive Program and, based on our estimates,
21 up to 78 million through New York State's Building
22 Aid Reimbursement Program. That's another 15 percent
23 on top of the 30 percent in federal dollars, meaning
24 that about half of the market cost of City solar
25 projects would be paid by federal and state funding

2 sources. With these incentives plus the energy cost
3 savings generated by solar over the course of its
4 useful lifetime, solar pays for itself two and a half
5 times over. The time is now to act boldly. By waiting
6 any longer, New York City will lose the chance to
7 access these huge opportunities to fight climate
8 change with cost-saving solutions, and create union
9 jobs. We urge the City Council to enact this
10 legislation. Thank you for your time and
11 consideration.

12 ACTING CHAIRPERSON NURSE: Sorry, I have a
13 question. The direct pay as an as-of-right cash
14 incentive, I'm sorry, I'm very ignorant to this is
15 this something that the City is applying for or
16 taking advantage of or is this something new that the
17 City would then be able to become eligible for?

18 JEFFREY WU: When we say as-of-right, that
19 means when you spend the money then you're
20 essentially entitled to getting it back. It's not
21 like applying to a grant. It's more like filing your
22 taxes except as a public entity you don't have taxes,
23 but you'd fill out similar paperwork from the IRS.

24 ACTING CHAIRPERSON NURSE: Okay, I'll do
25 my research in the meantime, but thank you.

1
2 AZUCENA QADEER: Thank you, Chair Nurse
3 and the Environmental Protection Committee, for the
4 opportunity to testify this afternoon. My name is
5 Azucena Qadeer, and I am the Political Director of
6 TREEage, a student-led climate justice organization
7 with over 1,000 high school students across all five
8 boroughs fighting for a greener future in New York
9 City and State. I am also a senior at the Beacon
10 School in Manhattan, and I've had a crazy four years
11 being a high schooler. I saw the skies turn orange on
12 my 17th birthday, I saw the streets flood on my first
13 day of 10th grade, and poor air quality has forced me
14 and my classmates to evacuate my school's basement 18
15 times last year alone. As my graduation day closes
16 in, I've been thinking a lot about how I want to
17 leave my school. I've been thinking about my legacy.
18 How am I going to leave my school? How am I going to
19 leave my city? I am here today hoping to leave my
20 city with a greener future. I speak for TREEage's
21 students who strongly support the passage and full
22 implementation of Intro. 353 and 354. We are overly
23 reliant on fossil fuels that are killing us slowly
24 every day. Our carbon emissions run rampant in this
25 city. Intro. 353 has the power to transform our

1 City's buildings, some of the largest polluters in
2 the city, and turn them into sources of power for our
3 city. Intro. 353 begins and invests in New York's
4 renewable energy transition, but 354 ensures it.
5 Notably, these bills will be critical in the energy
6 transition of New York City's 1,300 school buildings,
7 many of which are old and are in severe need of
8 investment, repair, and renovations. We cannot keep
9 putting a band aid on the issue of climate change,
10 and New York can lead the change. This City Council
11 has the power to set us up with a sustainable, long-
12 term system that is just the first step in saving New
13 York City from the countless more climate disasters
14 that will hit us. Thank you.

16 ACTING CHAIRPERSON NURSE: Thank you and
17 appreciate you being here. We always love having
18 TREEage at our hearings and at our rallies so thank
19 you for being here.

20 COMMITTEE COUNSEL MACLACHLAN: We will now
21 move to remote testimony. Our first witness on Zoom
22 will be Alia Soomro with the New York League of
23 Conservation Voters.

24 ALIA SOOMRO: Good afternoon. My name is
25 Alia Soomro, and I'm the Deputy Director for New York

1 City Policy at the New York League of Conservation
2 Voters. Thank you, Council Member Nurse, Chair
3 Gennaro, as well as Members of the Environmental
4 Protection Committee for the opportunity to testify.
5 I have submitted longer written comments.
6

7 As we are all aware, New York State and
8 New York City have set ambitious carbon emission
9 reduction goals such as New York City's 80 by 50,
10 Local Law 97, and New York State's CLCPA. Achieving
11 these targets necessitates a significant build out of
12 renewable energy infrastructure, particularly in the
13 form of solar, wind, energy storage systems which are
14 backup energy sources for homes, businesses
15 communities, or the electrical grid. Moving towards
16 renewable energy sources is not only a climate
17 priority, but it's also an environmental justice
18 priority. The burden of fossil fuel based peaker
19 plants, which have disproportionately been located in
20 environmental justice communities and contribute to
21 toxic air pollution and asthma, has persisted for far
22 too long. To alleviate this burden and pave the way
23 for a cleaner, more resilient and just future, it is
24 imperative to increase renewable energy sources and
25 battery storage at a utility scale. NYLCV recommends

2 that the City Council enact legislation establishing
3 a goal for New York City to have at least two
4 gigawatts of battery storage by 2030. We realize this
5 is ambitious, but we think the City can do more. By
6 doing so, we can ensure that when energy demand
7 spikes, as it often does in densely populated urban
8 areas like New York City, we do not compromise the
9 health and safety of our residents, especially those
10 in vulnerable communities. With that said, NYLCV
11 would also like to stress the importance of
12 distinguishing e-bike lithium battery fires with
13 energy storage systems, the latter of which is much
14 safer under current regulatory standards. FDNY and
15 DOB have strenuous standards, regulations, and annual
16 inspections for battery storage systems on buildings.
17 NYLCV supports Intro. 129 sponsored by Council Member
18 Brannan and Introductions 353 and 354 sponsored by
19 Council Member Nurse. regulations. As New York City
20 transitions to a more sustainable and resilient
21 future with the switch to renewable energy, it's
22 crucial that we maximize City-owned properties and
23 City-owned space with more renewable energy systems.
24 We support these bills because they complement the
25 City's own goals to establish 100 megawatts of solar

1
2 by 2025 and 500 megawatts of energy storage by 2025
3 as well. As we continue to build out our generation
4 of renewable energy, including solar and wind, energy
5 storage will play a key role. We look forward to
6 working with the City Council, the Admin, and fellow
7 advocates to get these bills over the finish line.
8 Thank you.

9 ACTING CHAIRPERSON NURSE: Thank you.

10 COMMITTEE COUNSEL MACLACHLAN: Thank you.

11 Our next witness is Shravanti Kanekal from the New
12 York City Environmental Justice Alliance.

13 SHRAVANTI KANEKAL: Thank you. Good
14 afternoon, and thank you to Council Member Nurse for
15 Chairing this hearing today on behalf of Council
16 Member Gennaro. My name is Shravanti Kanekal, and I'm
17 the Senior Resiliency Planner for the New York City
18 Environmental Justice Alliance, which is a non-profit
19 citywide membership network that links 11 grassroots
20 organizations from low-income neighborhoods and
21 communities of color in their struggle for
22 environmental justice.

23 ACTING CHAIRPERSON NURSE: I think you
24 froze. If you can hear us, let me know.

25 SHRAVANTI KANEKAL: I can hear you.

2 ACTING CHAIRPERSON NURSE: Okay. You froze
3 for a second. You had introduced the organization
4 where you left off.

5 SHRAVANTI KANEKAL: Okay, I will continue.
6 NYCEJA through the Climate Works for All Coalition
7 has been an ardent supporter of the City's goal to
8 install 100 megawatts of solar PV systems on
9 municipal buildings and structures. We're very
10 supportive of Intro. 353, legislation that will
11 ensure that this goal is not just a promise but a
12 commitment to a cleaner and more resilient future for
13 New York City. New York City has been far too reliant
14 on fossil fuel infrastructure for far too long.
15 Peaker power plants are some of the most expensive
16 and least efficient ways to produce electricity. In
17 addition, they add the burden of utility rates that
18 is created for lower- and moderate-income families.
19 As we move towards a more sustainable future,
20 environmental justice should stand at the forefront
21 of our commitments because we know that not all
22 communities have been equally affected by
23 environmental challenges (INAUDIBLE) and structure
24 that are located in historically disadvantaged
25 communities across the city.

2 We also support Intro. 354 that requires
3 the City to identify much-needed areas for energy
4 storage systems. It is essential for us to focus on
5 energy storage as we make the transition towards
6 renewable energy. The City should prioritize the
7 deployment of these energy storage systems in grid-
8 constrained or blackout-prone neighborhoods.
9 Decarbonizing our grid will be critical to reducing
10 air pollution that comes from fossil fuel
11 infrastructure that we are so currently reliant on.
12 The shift can play a life-saving role in
13 environmental justice communities in addition to
14 creating a number of good green jobs. By prioritizing
15 these projects in environmental justice communities,
16 we ensure that they are not only equal participants
17 in our City's sustainable future, but they also reap
18 the benefits of reduced energy costs, improved air
19 quality, and job opportunities in the green economy.
20 Thank you for your time.

21 ACTING CHAIRPERSON NURSE: Thank you.

22 COMMITTEE COUNSEL MACLACHLAN: Our next
23 witness is Adam Roberts with the Community Housing
24 Improvement Program.

1
2 ADAM ROBERTS: Thank you for holding this
3 hearing today. I am Adam Roberts, Policy Director for
4 the Community Housing Improvement Program, also known
5 as CHIP. We represent New York's housing providers,
6 including apartment building owners and managers. We
7 are strongly supportive of legislation to promote the
8 installation of solar panels on existing buildings.
9 Our members are already installing solar panels on
10 apartment buildings throughout the city. However, too
11 many of them face obstacles when seeking City
12 approval to do. In particular, the Fire Code severely
13 limits the ability to comprehensively cover a roof
14 with solar panels. Without sufficient coverage, the
15 high cost of installing solar panels can become
16 prohibitive. Installing them is only a worthwhile
17 endeavor if they can actually power an entire
18 apartment building. The City of Yes Carbon Neutrality
19 zoning text amendment does reduce the zoning
20 obstacles to sufficiently covering a roof with solar
21 panels. Yet this text amendment will not remove the
22 strict limits put in place by the Fire Code, meaning
23 the City Council must act. While it's not being heard
24 at this hearing, Intro. 73 would remove many of these
25 Fire Code restrictions.

2 Battery storage systems face similar
3 roadblocks to solar panels. The City of Yes will
4 reduce the zoning limitations of battery storage
5 systems, but FDNY will still have significant leeway
6 to block their installation. We recognize that severe
7 limitations placed on solar panels and battery
8 storage systems are well-intentioned efforts to limit
9 the risk of fires. Yet, even as these technologies
10 have become much safer, the City continues to make
11 their installation incredibly difficult. Unless this
12 problem is addressed, New York's apartment buildings
13 will continue to be hampered in their efforts to
14 comply with Local Law 97 and other sustainability
15 legislation. The Council should do everything in its
16 power to ensure compliance with its own laws is
17 feasible. Again, thank you for holding this hearing
18 today.

19 ACTING CHAIRPERSON NURSE: Thank you.

20 COMMITTEE COUNSEL MACLACHLAN: Our next
21 witness is Rami Dinawwi.

22 RAMI DINAWWI: One second. Can you guys
23 hear me?

24 ACTING CHAIRPERSON NURSE: We can.
25

2 RAMI DINAWWI: All right. Good afternoon,
3 folks. My name is Rami Dinawwi, and I am the
4 Environmental Justice Campaign and Policy Manager at
5 El Puente. El Puente is a human rights organization
6 that was founded over 40 years in the south side of
7 Williamsburg, known as Los Tures. We are a member of
8 the Climate Works for All Coalition, a coalition of
9 labor, community, faith, environmental justice, and
10 climate organizations that have come together to
11 fight climate change and inequality in New York City
12 by demanding a just transition for workers and
13 environmental justice communities. Today, we've come
14 to support a couple of bills that hold the key to
15 transforming the future of our city. As a resident of
16 this city, I've witnessed the impact of the outdated
17 fossil fuel infrastructure in our city, particularly
18 in low-income neighborhoods and communities of color.
19 For far too long, New York City has relied on fossil
20 fuel infrastructure with some of the most harmful
21 facilities disproportionately affecting low-income
22 neighborhoods and communities of color. These areas
23 face multiple environmental burdens, compounding the
24 challenges they already endure. Intro. 353, a
25 groundbreaking legislation that mandates our City to

2 lead by example in transitioning to a renewable
3 energy future. This bill ensures that the promise of
4 100 megawatts of solar energy systems on municipal
5 buildings by 2025 becomes a committed reality. The
6 climate crisis respects no boundaries, and it is our
7 collective responsibility to act decisively. By
8 implementing this bill, we not only curb citywide
9 emissions but also set a precedent for other cities
10 to follow. The urgency is real, and the bill provides
11 a plan for a cleaner and more resilient future. Some
12 might question the feasibility of such a transition
13 as we've heard. However, the bill strategically
14 addresses concerns by requiring the City to
15 prioritize solar installations in public schools,
16 City-owned properties, and disadvantaged communities.
17 This ensures an equitable distribution of benefits
18 and opportunities. Our moral imperative is clear.
19 Environmental justice communities face
20 disproportionate challenges, and Intro. 353 is a
21 crucial step towards addressing these disparities. By
22 prioritizing solar installations in these areas, we
23 not only make them equal participants in our
24 sustainable future but also empower them with reduced
25 energy costs, improved air quality, and job

2 opportunities in the green economy. In addition to
3 supporting Intro. 353, we must acknowledge the
4 importance of Intro. 354. This bill mandates the City
5 to identify areas for energy storage systems, a
6 critical component of our transition to renewable
7 energy. It is essential for the City to prioritize
8 these energy storage systems in grid-constrained or
9 blackout-prone neighborhoods, ensuring a reliable and
10 resilient energy future for all. I will conclude by
11 saying Intro. 353 and 354 represent a bold step
12 towards a cleaner, more equitable and resilient New
13 York City. By supporting these bills, we affirm our
14 commitment to environmental justice, sustainable
15 energy, and a future where our city leads the way in
16 combating the climate crisis. Let's think about the
17 impact on our children, on our neighborhoods, and on
18 our shared future. I urge each and every one of the
19 Council to vote on this bill, and together we can be
20 the change that we want the city to...

21 SERGEANT-AT-ARMS: Your time is expired.

22 RAMI DINAWWI: We want to see in our city
23 and beyond. Thank you.

24 ACTING CHAIRPERSON NURSE: Thank you,
25 Rami. That is the end of our witnesses.

2 Before we leave, I wanted to give a shout
3 out to the climate clock which was a gift provided to
4 the Council last year. It melds art, science,
5 technology, and grassroots organizing to get the
6 world to #ActInTime. The project is centered on a
7 simple tool, a clock that counts down the critical
8 time window to reach zero emissions, our deadline
9 while tracking our progress on key solutions so shout
10 out to Climate Clock and thank you all for being
11 here.

12 If we have inadvertently missed anyone
13 that has registered to testify today and has yet to
14 be called, please use the Zoom hand function if you
15 are testifying remotely and you will be called in the
16 order that your hand was raised.

17 Seeing none, I will now turn it over to
18 myself for closing remarks, and we are closed. Thank
19 you all. Have a good Friday. Thank you. [GAVEL]

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C E R T I F I C A T E

World Wide Dictation certifies that the foregoing transcript is a true and accurate record of the proceedings. We further certify that there is no relation to any of the parties to this action by blood or marriage, and that there is interest in the outcome of this matter.



Date March 8, 2024