



## PILOT PROJECTS GOVERNANCE BOARD

April 15, 2021

Ms. Brinda Westbrook – Sedgwick  
Commission Secretary  
Public service Commission of the District of Columbia  
1325 G Street NW, Suite 800  
Washington, DC 20005

***Re: The Investigation into Modernizing the Energy Delivery System for Increased Sustainability, GD -2020-02-M***

Dear Ms. Westbrook-Sedgwick,

Attached please find the Pilot Projects Governance Board's March meeting minutes. Should you have any questions regarding this filing, please contact me directly.

Best Regards,

*Adrienne Mouton-Henderson*

Pilot Projects Governance Board Secretary



## Pilot Project Governance Board

Meeting No. 9

March 25, 2021

3:04 pm

Meeting Minutes  
(DRAFT)

**Commission Facilitator** called the Meeting to Order at 3:04 pm.

### List of Attendees:

#### Board Member Organizations in Attendance (Quorum present)

- Solar United Neighbors of DC – **Present**
- DC Chapter of the Sierra Club – **Present**
- DC Consumer Utility Board (“DC CUB”) – **Present**
- Office of the People’s Counsel for the District of Columbia (“OPC”) – **Present**
- Maryland-DC-Delaware-Virginia Solar Energy Industries Association (“MDV-SEIA”) – **Absent**
- District Department of Energy and Environment (DOEE) – **Present**
- Greater Washington Urban League (“GWUL”) – **Absent**
- Apartment and Office Building Association of Metropolitan Washington (“AOBA”) – **Present**
- Commission Staff – **Present**

### II. General Business

Purpose of the meeting was to have presentations from individuals/agencies who have specific experience implementing potential pilot projects and to have an opportunity to ask questions from some of the concept paper authors.

### III. Meeting

- **NYS Clean Heat (Wendy MacPherson, NYSERDA; Ray Cotto, Central Hudson)**
  - Statewide adoption effort for heat pump technologies to decarbonize buildings
  - Uniform program with large budget
  - Process for approving participating contractors and contractor requirements
  - 9 rebate categories based on heat pump size, type, amount of energy savings
  - Market development, workforce development,
  - Rebates successful for Central Hudson - currently exceeding their goals
  - variables of adoption – consumer of education is key (ex: heat pumps ca withstand -5 degrees)

- Good strategies towards cost
  - Suite of strategies: (1) grass roots -Heat Smart Community (come see how it feels), (2) marketing campaign (launching April 12<sup>th</sup> directly to R customers), (3) Social media, Commercials, Radio, Banners/Billboards
  - Playbook – air source heat pump & interactive – see what it looks like & how it feels
  - Bundling – good, better, best packages
  - Importance of addressing efficiency upgrades
- **Grid 2.0, LLC (Larry Martin)**
    - DR management systems – real time optimized system to manage DL & ancillary services
    - Load forecast from Pepco
    - Electrification will increase load
    - PSC can waive any conditions to do a pilot per presenter
    - Demonstrate grid-edge real-time bi-directional power management
    - Hosting capacity – if grid segment chosen has limited hosting capacity a project like this could demonstrate overcoming those constraints
    - Open-source aggregation platforms (i.e. DOE’s VolTron) vs. proprietary
    - Impact of dynamic pricing / TOU
- **VYBE Energy & New Columbia Solar (Nisha Thirumurthy and Team)**
    - Practical minimum size of building – 100,00 sqft
    - Costs depend on if installation of building automation system is required and if there is already PV on site
    - Proprietary software that sizes generation/storage depending on the use-case (I.e. for back-up power, may upsize storage component)
    - Core of concept is to integrate VPP with behind the meter loads, automated demand response/load management
    - Increased hosting capacity / use of IEEE 1547-2018
    - Algorithm would use TOU rates (if in effect)
    - Real-time monitoring
    - Phase 2 campus style or cluster of buildings, DER, demand load-shedding
- **Solar For All (Thomas Bartholomew, DOEE)**
    - 100K low - income households by 2032 with clean solar energy
    - 6,500 currently & 22.5MW
    - Challenges – issues with buildings & technical approvals
    - Proprietary telemetry requirement by Pepco for monitor and control, costs of \$25,000 - \$35,000
    - Importance of IEEE 1547-2018 standard implementation, communications protocols, role of advanced inverters in communications (cybersecure)

- **Matthias Paustian**

- Temperature of the ground, 55 degrees Fahrenheit in this region so heats more efficiently
- Retrofit/ EE plus pump? It depends. Bloc Power (NY) – offers packaging deal on deep energy retrofit with heat pumps.
- Whether bundling could occur depends on the specifics of the building – case by case basis
- Ground source heat pump Cost, approximately \$30 / sqft for large system (i.e. campus), example of Banneker high school 175K square feet x \$30 to get cost estimate
- What type of heating system is already in place in the buildings
- Life cycle longer of heat pumps
- Capital costs could be higher initially
- Vertical ground holes needed which could be problematic in the downtown corridor
- Could function well with a microgrid
- Up to the Board whether to do individual building or a large number of buildings  
In the RFP require the design aspect
- Site selection – must look at heat generation & heat distribution in the interior of the building

## **V. Action Items & Deadlines**

- Subcommittees should start meeting to tentatively start drafting RFPs
- RFPs for pilot projects are in the design phase currently Doodle poll to be sent out for next meeting
- Start discussing RFPs 4-6 concepts and should be ready to go in May
- Next meeting April 22, 2021 from 3-5pm

## **VI. Adjournment**

Commission Chair adjourned the meeting at 5:06 pm

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