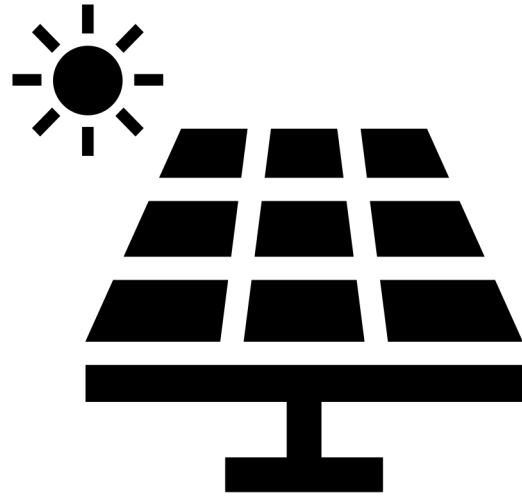


**A.F.Mensah**



*Solar Energy*

*Battery Storage*

*Electric Microgrids*

Overview

Example of Projects

R&D Partnership with UCF

- ❑ A.F. Mensah, Inc. is a cleantech company in operation since 2013.
- ❑ We develop and operate Solar PV, Battery Storage, and Electric Microgrid projects.
- ❑ Primary client base includes Electric Utilities, Municipalities, and Large Institutions.

# **Example of Projects**

# PSE&G Solar Integration

**A.F.Mensah**

## Project

- ❑ Portfolio of 3MW Solar + 3MW/1.5MWh Battery Storage
  - Hopewell High School
  - Cooper Hospital
  - Caldwell Wastewater Treatment Facility
  - Pennington Department of Public Works

## A.F. Mensah's Role

- ❑ Development and Systems Integration
- ❑ Operate Systems for Grid Reliability: Solar Smoothing/Firming, Voltage Control, Back feed Control, and Other Uses Cases to be mutually developed between A.F. Mensah & PSE&G's Distribution Planning
- ❑ Operate Systems in PJM Markets
- ❑ Operate Systems for Resiliency: Monitoring/Control during Grid Outage



# Baltimore Resiliency Hub Program

A.F.Mensah

- ❑ The Baltimore Resiliency Hub Program is a network of community facilities that can provide temporary relief, backup power, and access to resources such as fresh water, food, medicine, and charging stations in the event of a prolonged emergency.
- ❑ A.F. Mensah, in partnership with the City of Baltimore and the State of Maryland is developing a network of distributed solar + storage projects that will achieve the objectives of the resiliency hub program while providing grid reliability services.
- ❑ 40 sites at various stages of operation and implementation



# Exelon – Substation Defferal

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- ❑ Location: Oxon Hill, Maryland. Intersection of Livingston Rd & White Oak Rd.
- ❑ Battery Storage with advanced controls for Peak Shaving, Grid Back Up Power, and Power Trading, avoid construction of an electrical substation
- ❑ \$11M of Benefits to Exelon and its customers, Avoidance of CO2 and Other emissions
- ❑ Construction underway



# R&D Partnership with UCF

# A.F.Mensah



***Research & Development Lab at FSEC in Central Florida.***

***Thanks to Partnership with UCF and FHTCC***

- Battery Storage Design, Integration and Testing Laboratory
- Established through a partnership between A.F. Mensah, Inc., The Florida High Tech Corridor Council, and the University of Central Florida
- Provides a platform for collaboration on commercial projects as well as research and development projects
- Areas of Interest
  - Power Electronics
  - Controls
  - Systems Integration & Packaging



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