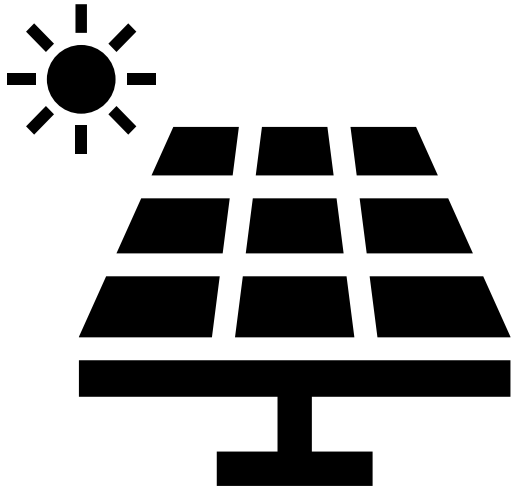
A.F.Mensah



Solar Energy *Battery Storage* *Electric Microgrids*

Outline

A.F.Mensah

- ❑Overview
- ❑Example of Projects
- ❑R&D Partnership with UCF

Overview

A.F.Mensah

- 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

A.F.Mensah

- 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 Partneship with UCF

A.F.Mensah

Research & Development Lab at FSEC in Central Florida.

Thanks to Parnetship 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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