

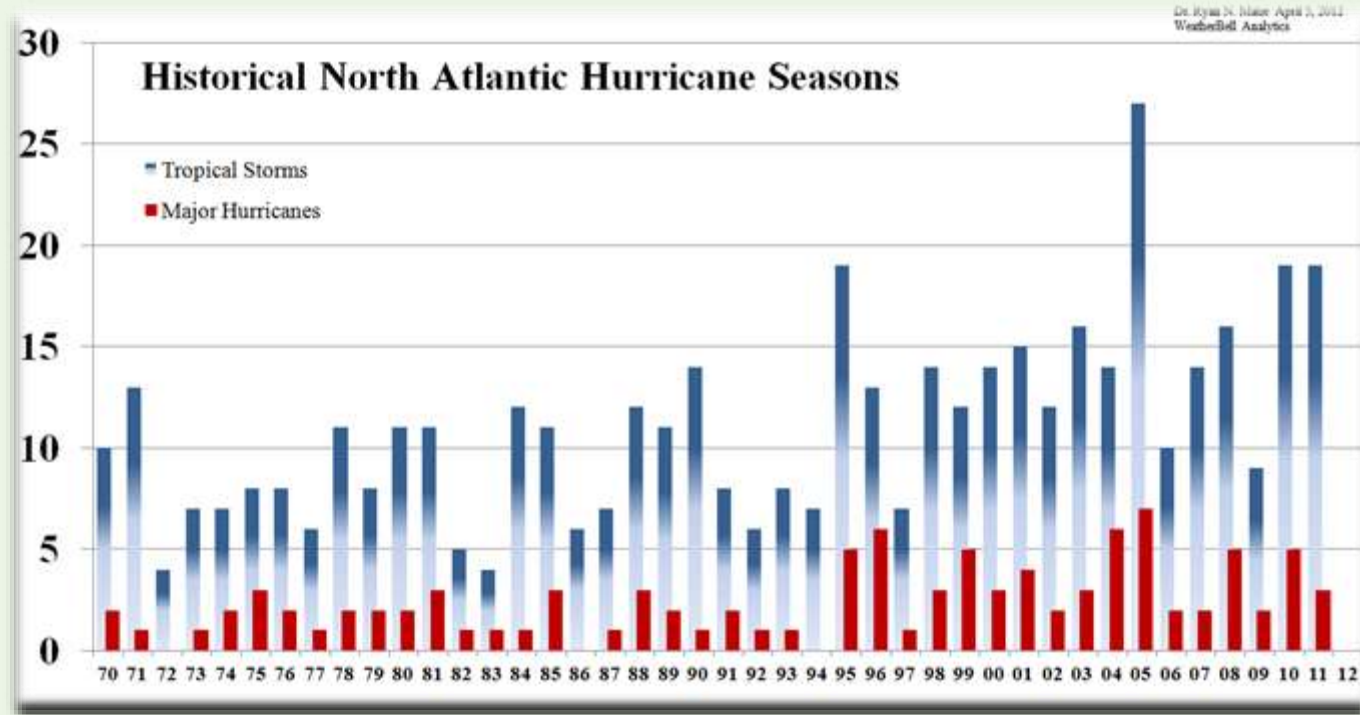
Bolstering Communities with Microgrids in Montgomery County Maryland

CampusEnergy 2018

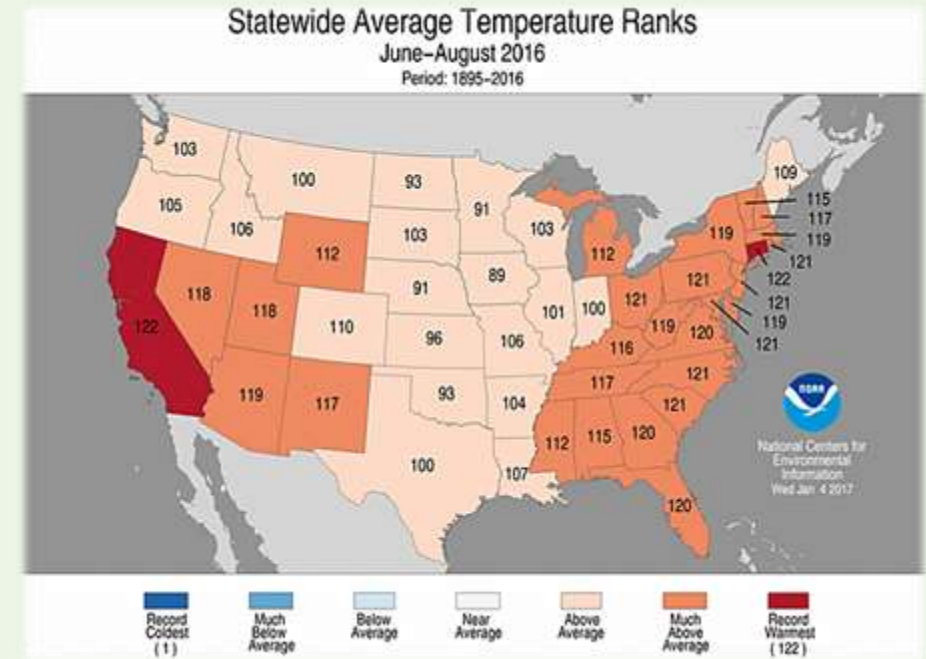
Baltimore, MD

March 6, 2018

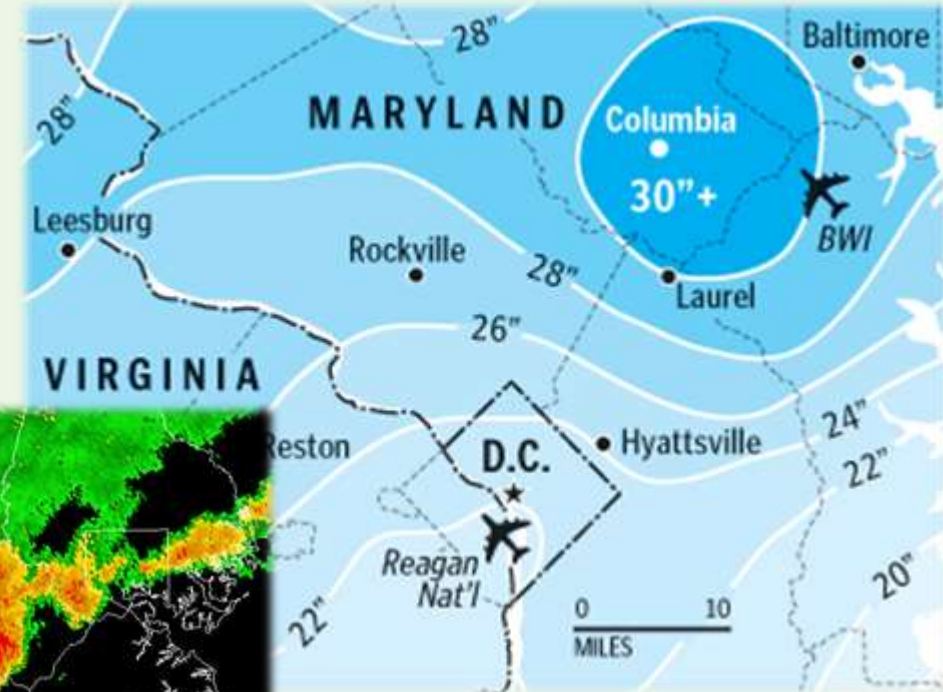
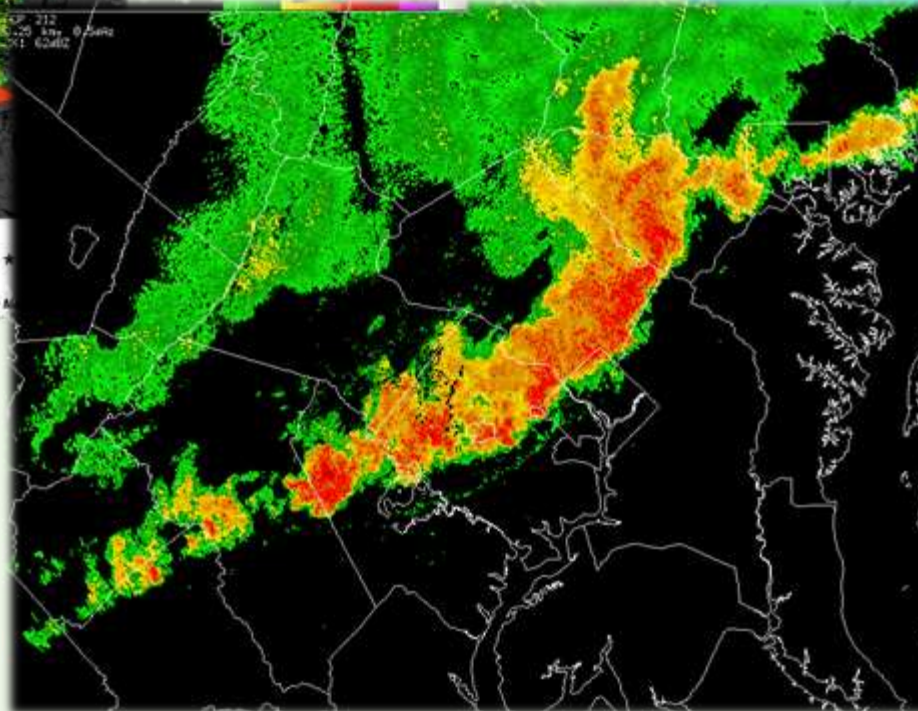
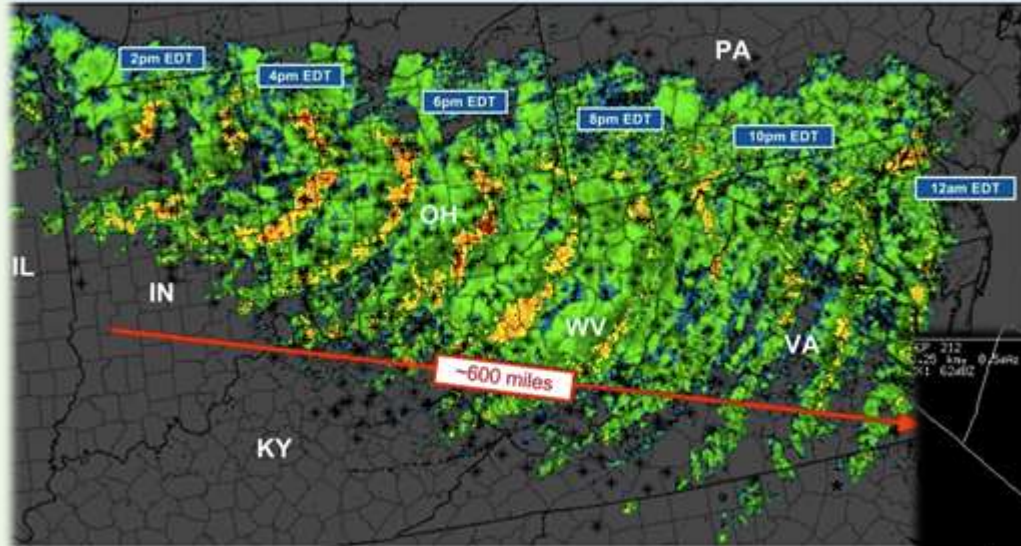


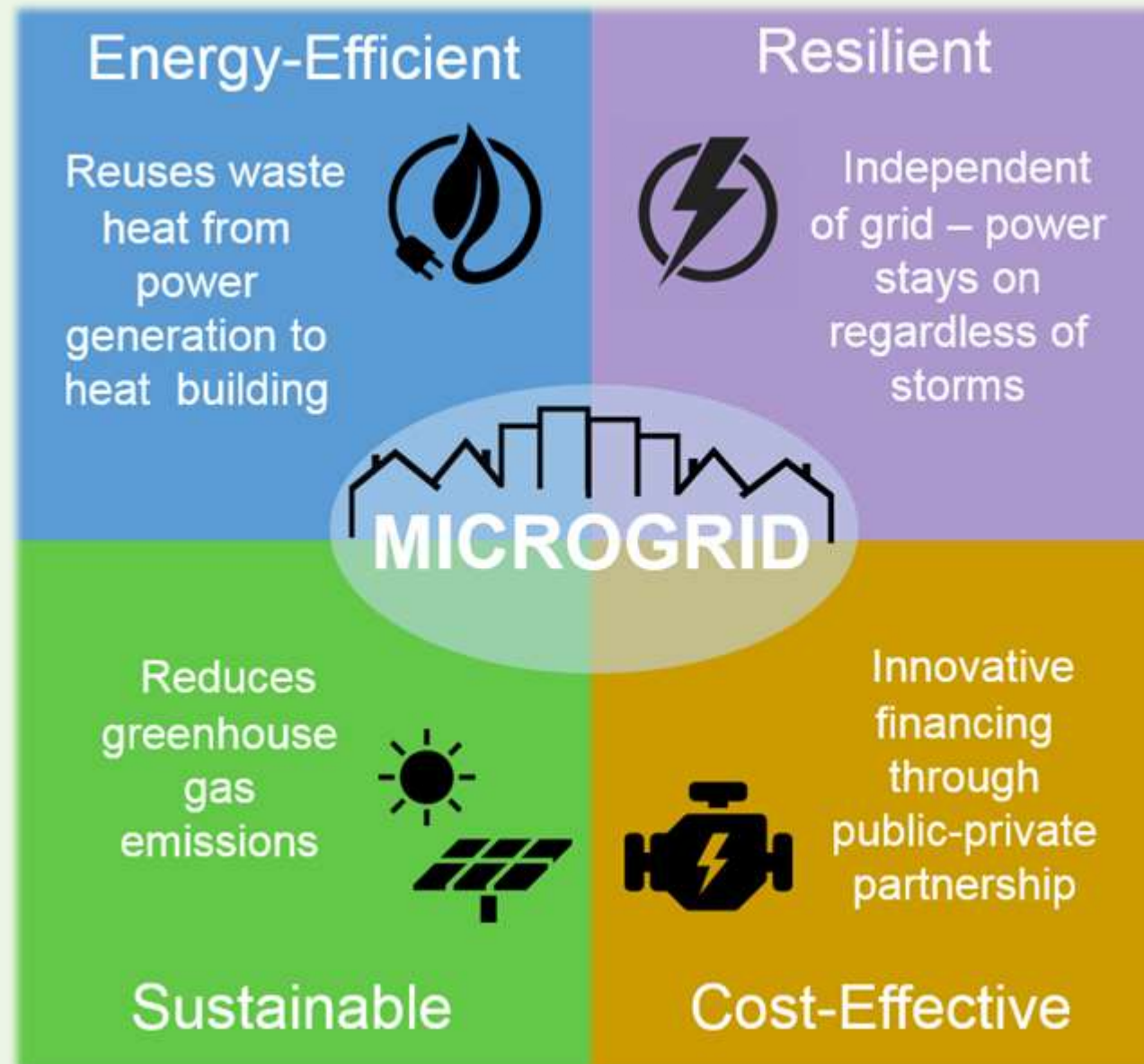


North Atlantic Hurricane Season, WeatherBellAnalytics April 5, 2012
 Tropical Storm Hurricane Tracks, Dr. Jeff Masters September 3, 2013
 Statewide Average Summer Temperatures - NOAA



June 29, 2012 Midwest to East Coast Derecho
Radar Imagery Composite Summary 18-04 UTC
~600 miles in 10 hours / Average Speed ~60 mph





- Two facilities Public Safety Headquarters (PSHQ) and Correctional Facility (MCCF)
- Microgrid as a Service
- Duke Energy Renewables owns the generation facilities
- Schneider Electric builds and maintains the system
- County purchases electricity for 25 years
- No significant impact on County budget caps
- Standard contract

PSHQ Microgrid Project



CHP Integrated
into Existing
Generator Bank

~2 MW Canopy
Mounted Solar

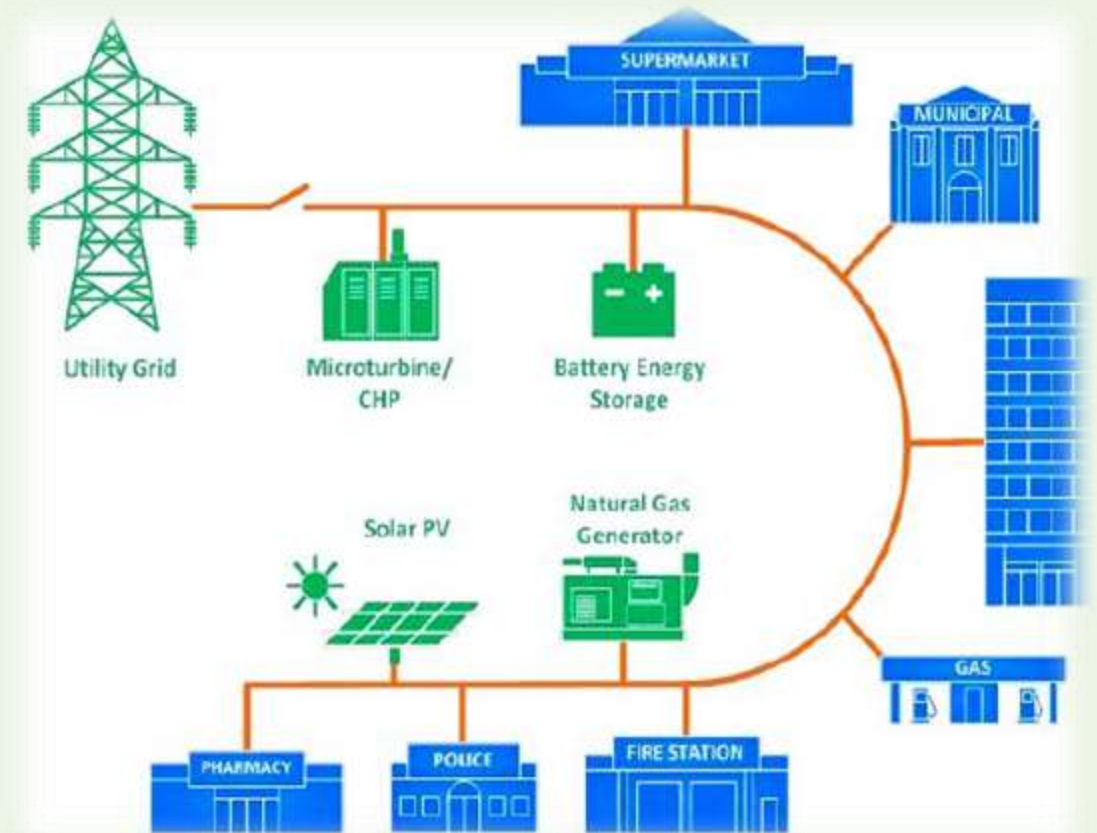
DC Fast Charging

Absorption
Chillers

Controls and
CyberSecurity

Path to the future

- Comprehensive critical facility planning
- Standards for public facility projects and infrastructure
- Public amenities and critical facility support
- Addressing regulatory hurdles for public purpose and community scale microgrids
- Improved financing for stand alone and community scale microgrids
- Transactional technologies such as blockchain
- Microgrids for economic development





@MoCoOES



@MocoGreenDGS

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Microgrids Planned for County Facilities

Montgomery County announced plans to install microgrids to allow Public Safety Headquarters and Montgomery County Correctional Facility to operate without any power from the utility grid, ensuring public safety and community resiliency during major storms. [More...](#)

Energy & Climate

Waste Reduction

Transportation

Green Buildings

Resiliency

Water