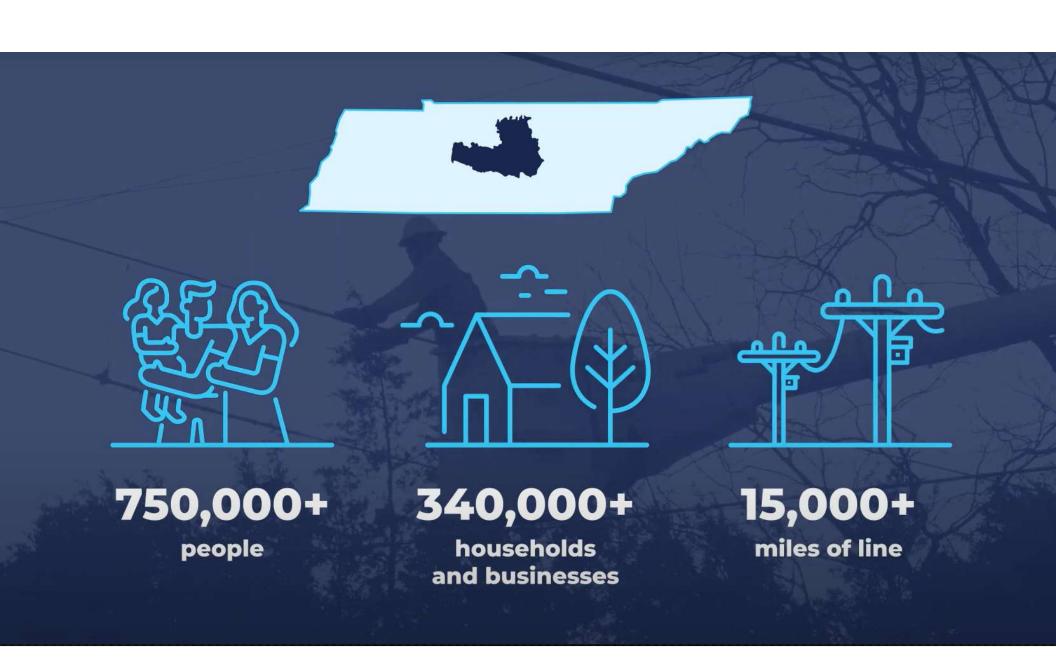
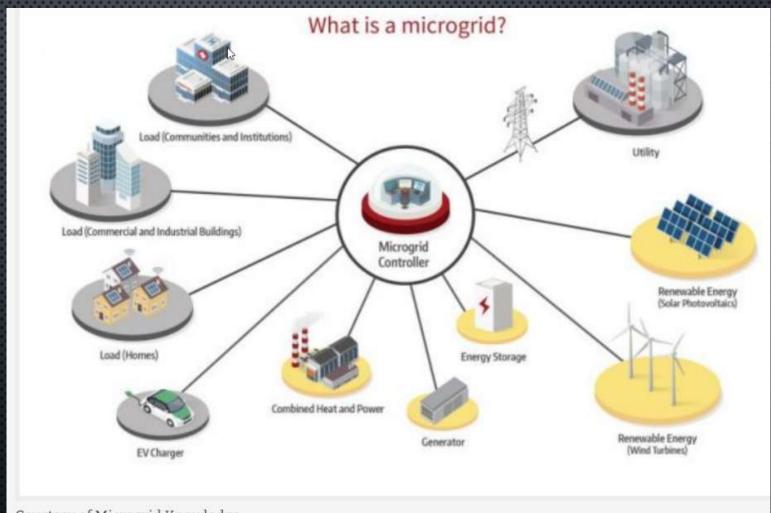
MTE OFFICE MICROGRID

CASE STUDY



MICRO-GRID



Courtesy of Microgrid Knowledge

MTE – LEBANON



BESS



GENSET



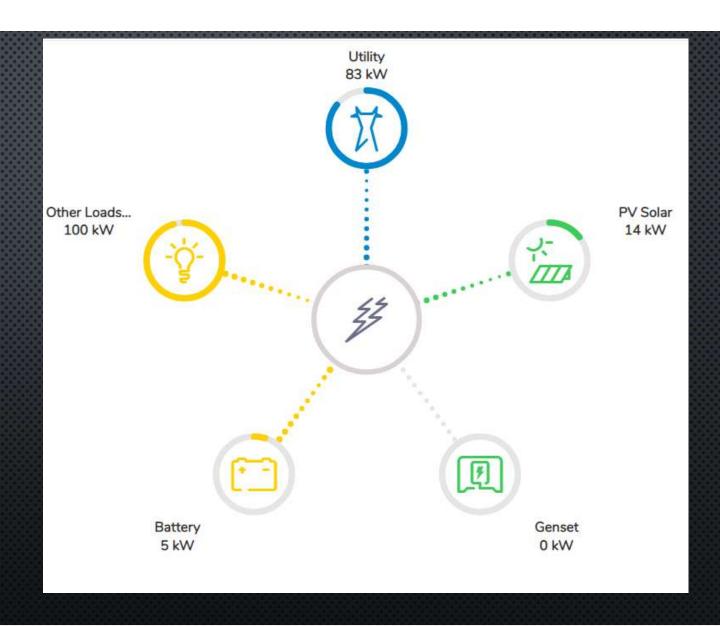
ECC – Energy Control Center





EMA

Eco-struxture Microgrid Advisor



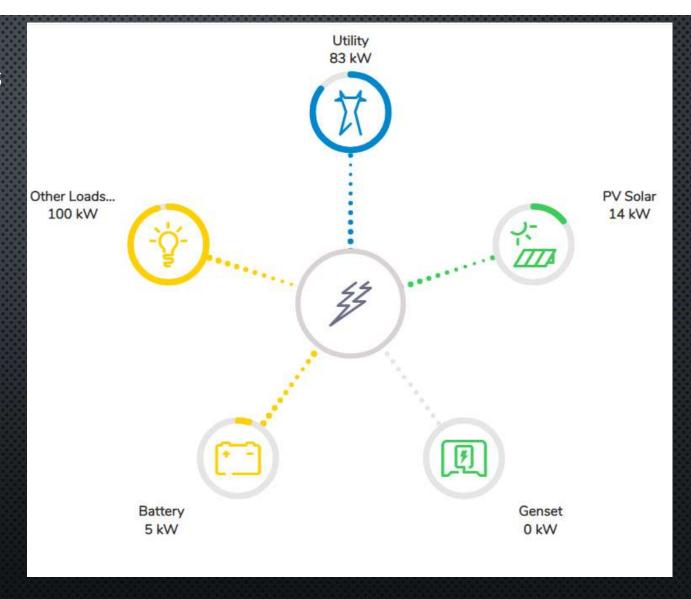
EMA

Eco-struxture Microgrid Advisor

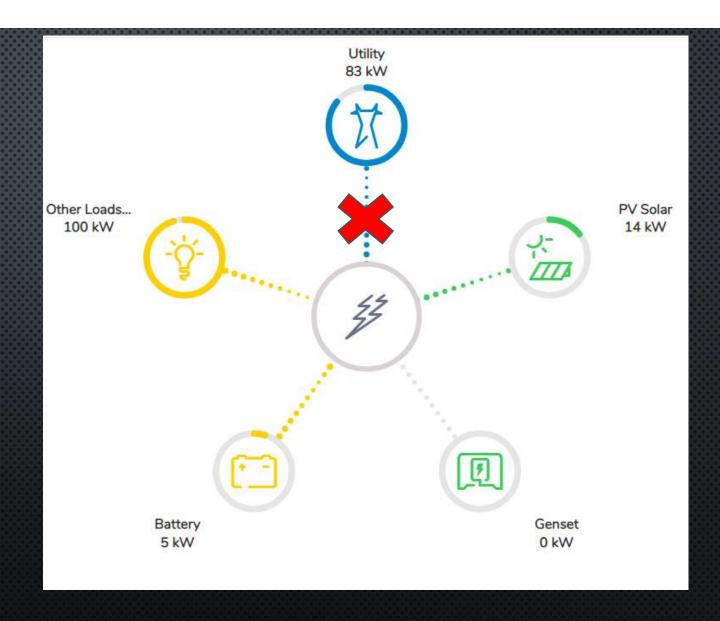


Sequence of Operations

Terminology
OPEN transition
CLOSE transition
"seamless"
Anchor source
Storm mode



Sequence of Operations



Micro-grid challenges

- Every scenario requires extensive amount of Engineering analysis
 - Retrofitting and access of accurate documentation
 - Fault current and arc flash studies
 - Controls and operation of multiple devices across different vendors
- Full battery testing to ensure compliance
 - Test may need to be completed after-hours or impact on productivity
 - Test may set monthly peak demand
- Hard to test real world scenario
- Network connectivity
 - Increased IT security
- Vendor lock-in
- Increased operations complexity
- Maintenance





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