ABB’s microgrid solution allows for integration of a complex energy generation portfolio and maximizes the use of renewable energy. The advanced microgrid solution allows WEB Aruba to plan operations and adjust dispatch in real time to accommodate changes in renewable output, load or generation availability. This leads to a stronger, smarter and greener grid for the people of Aruba.

- e-mesh™ control system
- 24-hour forecast of both renewable output + system load
- Management of peak demand, 134 MW

124.41
Total power

14.69 MW
Wind

1.39 MW
Solar

109.61
Gas / steam
ABB e-mesh
Infinite insights to optimize performance

- **e-mesh Applications**
  Software applications hosted in the cloud to improve performance and increase revenue streams

- **e-mesh Monitor**
  Cloud-enabled remote monitoring and controlling of DERs

- **e-mesh SCADA**
  Distributed energy resources automation solution

- **e-mesh Control**
  Intelligent and efficient power management

- **e-mesh PowerStore**
  Smart battery energy storage solution

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**e-mesh Analytics Suite**
- Bidirectional data flow from and/or to the field
- Access from anywhere, anytime

**e-mesh Optimizer Suite**
- Data acquisition from DERs and substations
- Supports international and local communication protocols
- Interaction with TSO/DSO

**e-mesh Service Suite**
- Renewable power generation grid code compliance
- Network voltage control
- Feeder and load demand management
- Generators overload protection

**e-mesh Premium Suite**
- Support application such as islanding, seamless transition, black start, frequency & voltage regulation, spinning reserve, ramp-rate control, capacity firming load leveling, peak shaving and load shifting