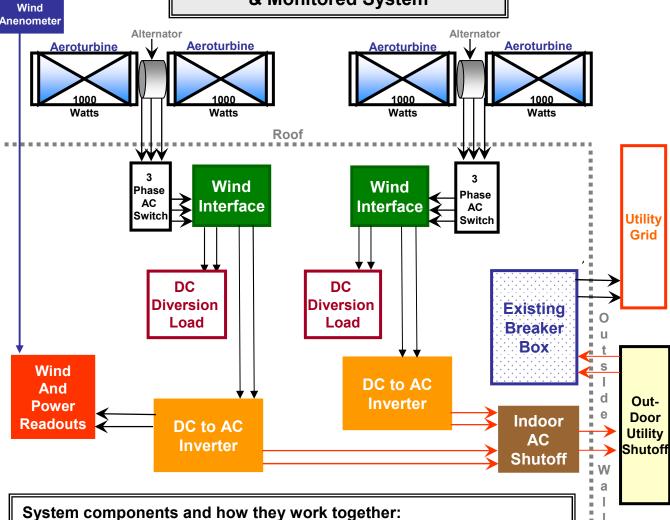
Typical Horizontal 520H **Roof Mounted Grid-tied** & Monitored System



- Wind turns the Aeroturbines, which convert wind energy into rotational energy, via the attached Alternators converting rotational energy to 3-phase AC electricity.
- 2. The Alternators pass 3-phase AC electricity to the Wind Interface Boxes which convert 3-phase AC electricity into DC electricity and regulate the maximum voltage.
- 3. The Wind Interface Boxes deliver most of the DC electricity produced to the DC to AC Inverters and send any excess to the DC Diversion Loads, which use extra electricity to make heat.
- 4. The rooftop Anemometer sends wind speed information to the main Wind Interface Box connected, through the system, to the main Wind and Power Readout.
- 5. The Wind and Power Readout. receives wind speed and wind direction data from the Wind Interface Box and power readings from the DC to AC Inverter. The Wind and Power Readout data can be read on site or sent to a collection server and then accessed via a specified URL through the DC to AC Inverter.
- 6. The DC to AC Inverter takes incoming DC power and converts that variable DC power into standard AC building and grid voltage.
- 7. The DC to AC Inverter sends standard 240 volt (or 208 volt) 60 cycle, AC voltage to the Outdoor Utility Shutoff FIRST, before going back into to the building's Breaker Box. After supplying building loads, the power **FINALLY** then goes to the **Utility** Grid. The Outdoor Utility Shutoff is there for the utility lineman as needed.