SMART NEIGHBORHOOD

NATURAL GAS GENERATOR
Back-up generation source to ensure reliability of the microgrid. Uses natural gas to create electricity.

LOAD BANK
Enables testing of the generation assets to ensure the system is working correctly before connection to customers.

BATTERY
Stores energy generated for when it is needed. The equivalent to over 200,000 alkaline batteries.

POWER EQUIPMENT CENTER
Act as the control center of the microgrid – contains batteries, system controller, communications server, and switchgear.

SOLAR ARRAY
Converts light from the sun into energy that can be used to power the neighborhood and existing electric grid, or stored in the batteries. Eleven rows of solar panels with more than 1,200 modules.

THE SOUTHEAST'S FIRST COMMUNITY-SCALE MICROGRID
The Smart Neighborhood microgrid sits on five acres in suburban Birmingham, Alabama. It has the capacity to generate more than 600,000 kilowatts annually, which enough to power the 62-home subdivision of Reynolds Landing at Ross Bridge. The neighborhood is powered by the microgrid and the existing electric grid.

PowerSecure