



Challenge

- Avoiding disruption of service to area residents during a construction project
- Ensuring safety of construction crews

Solution

- Use IKE to determine whether electric distribution lines have to be relocated or re-routed.

Results

- Avoid time-consuming relocation projects that aren't necessary.
- More efficient use of field crews
- Cost savings for ACE customers

Atlantic City Electric Adopts IKE 3* Technology and Identifies Direct Savings in Time and Money

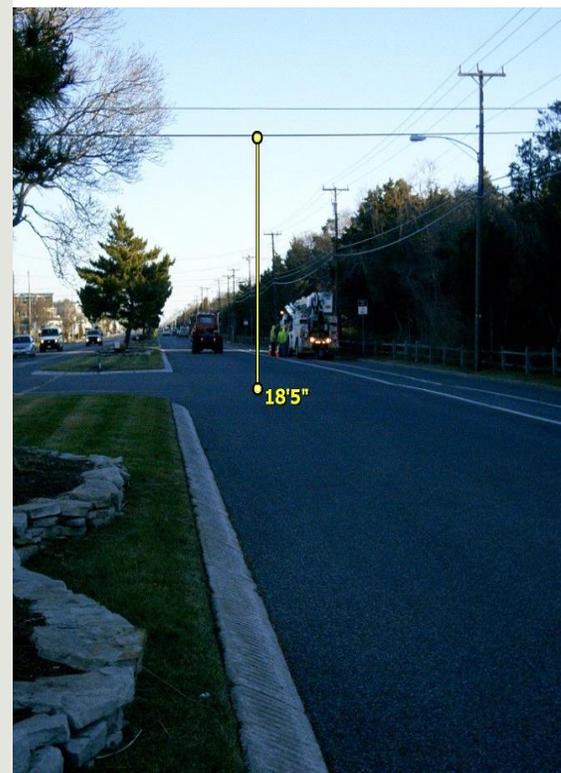
Customer

Atlantic City Electric (ACE) is a subsidiary of Pepco Holdings, Inc. (PHI), and serves eight counties in southern New Jersey. ACE delivers safe, reliable and affordable electric service to more than 545,000 customers, covering approximately 2,700 square miles. In addition to the territory maintained by ACE, other areas of PHI operation include parts of Delaware, Maryland and Washington D.C.

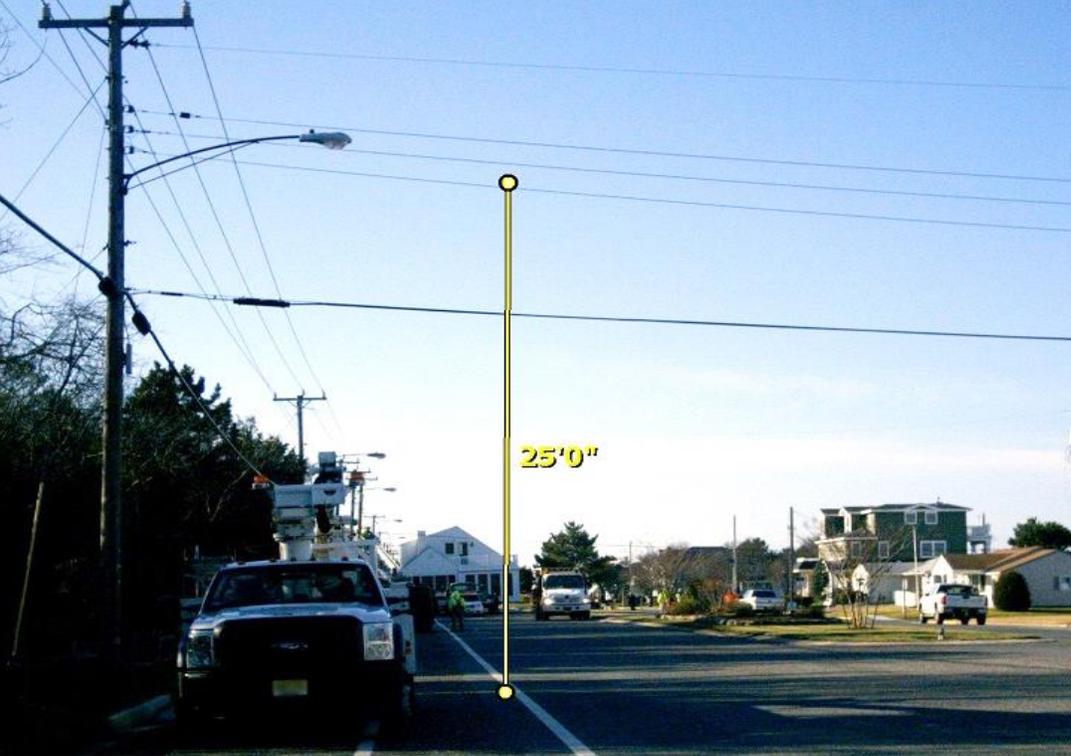
Challenge

The Barrier Islands, found off the Jersey coast, are a series of sand shoals that are a year-round home to a small number of residents. During the summer months population increases substantially. These islands were severely affected by Hurricane Sandy, which leveled the New Jersey coastline in October 2012. Due to new Federal Emergency Management Agency (FEMA) guidelines that have been adopted by many communities in that area, homes on the islands must be raised 10-13 feet above sea level. In addition, existing homes are often moved to new locations, making room for building of more modern and larger homes.

Any construction to raise the level of a house or the relocation of a structure often requires removing the primary overhead distribution line and running an alternate electrical feed. This is important to avoid any danger to construction crews and ensure service continuity to the community. However, this process is time consuming and expensive. In fact, it can easily cost a homeowner up to \$100,000. In addition, the labor-intensive process diverts ACE field crews away from other projects.



* IKE 3, formally branded as GE MpaSight™



In addition to this particular application, ACE continues to broaden their use of IKE for additional projects. These include:

- ✓ Documenting latitude and longitude GIS coordinates for new infrastructure builds, especially in remote areas such as fields or marsh lands. This data is then entered into GIS software.
- ✓ Documentation of any lines over highways or bridge overpasses to provide verifiable proof of compliance to height regulations, should that issue come into question.

Solution

PHI purchased seven IKE units in 2014 with two going to ACE, primarily to manage requirements for its internal Make-Ready Group, which responded to any adjustments needed for joint-use permitting requests. IKE combines a laser rangefinder, sub-meter GPS, compass and digital camera, which produces a calibrated image that provides accurate measurements and data for utility infrastructure. Data captured includes GPS location, pole and attachment heights, wire-span heights, overhead line crossings and vegetation clearances.

However, Senior Supervising Engineer Ed Kaminski recognized that the accurate calculation of wire-span and span height measurements captured when using the IKE device can also help identify clearance challenges relating to construction or the relocation of a structure. The accuracy of the data can help determine whether a live distribution line must be removed on a construction project or whether an alternative solution is an option to reduce labor and costs.

Result

Using IKE for these types of construction and moving projects has enabled ACE to manage in a more cost-effective manner and provide a value-add service to its customers. During one particular move in Avalon, New Jersey, the IKE data confirmed that taking down a live distribution line was not necessary. Instead, ACE raised the lines, which saved the homeowner \$60,000 and allowed ACE to manage its field crews more effectively.

**Request an on-line
demonstration by calling:**

303-222-3218

1-844-4-IKEGPS

"I keep a unit on my desk, and as I address everyday work issues, I continually recognize areas where IKE can help me manage or solve a problem in a more effective manner."

**Ed Kaminski
Sr. Supervising Engineer
Atlantic City Electric**

