copper

Unlock better data and <u>real-time</u> insights from existing meters

Copper Labs' patented technology remotely collects near-real-time data from existing electric, gas, and water meters without extensive infrastructure overhauls, and shares that data via a utility portal, end-user mobile app, or API.

Copper's high-resolution meter data helps energy and water utilities better support a data-driven transition to a low-carbon economy, increase resilience in the face of a changing climate, improve equity, manage demand, and deliver an excellent customer experience.

Stemming from more than 20 years of experience in wireless standards and smart-grid technologies, Copper's solution collects data directly from both smart (AMI) and drive-by (AMR) meters. By avoiding the emergent latencies common in even advanced smart meter systems (from the time meter data is collected to when it can be shared and used), Copper's solution provides more timely, better-quality data to utilities and their customers.

To turn high-resolution meter data into actionable insights, Copper offers a web portal for utilities and mobile app for consumers.

For utilities, Copper's web portal provides a real-time geographical view of consumption and makes it easy to message customers, run behavioral load management events, or plan for peak loads.

For consumers, Copper's mobile app offers engaging, data-driven insights into their energy or water consumption, timely notifications (such as mid-cycle high bill alerts and leak detection), and education around everything from time-varying rate structures to carbon intensity.

Copper currently offers two hardware options: a neighborhood-level detector and a small in-home detector.

The neighborhood-level unit wirelessly accesses data from hundreds of existing meters at once and is designed for scaled implementation at a fraction of the time and cost of traditional smart meter deployments. No in-home equipment or Wi-Fi networks are needed (making it particularly relevant to low- and moderate-income customers), and the data can be made available to customers or utility staff immediately.

For targeted deployments or pilot programs—such as measurement and verification of new efficiency measures—utilities can send customers an in-home Copper detector that's smaller than a pack of playing cards and plugs into the wall, immediately unlocking their meter data.