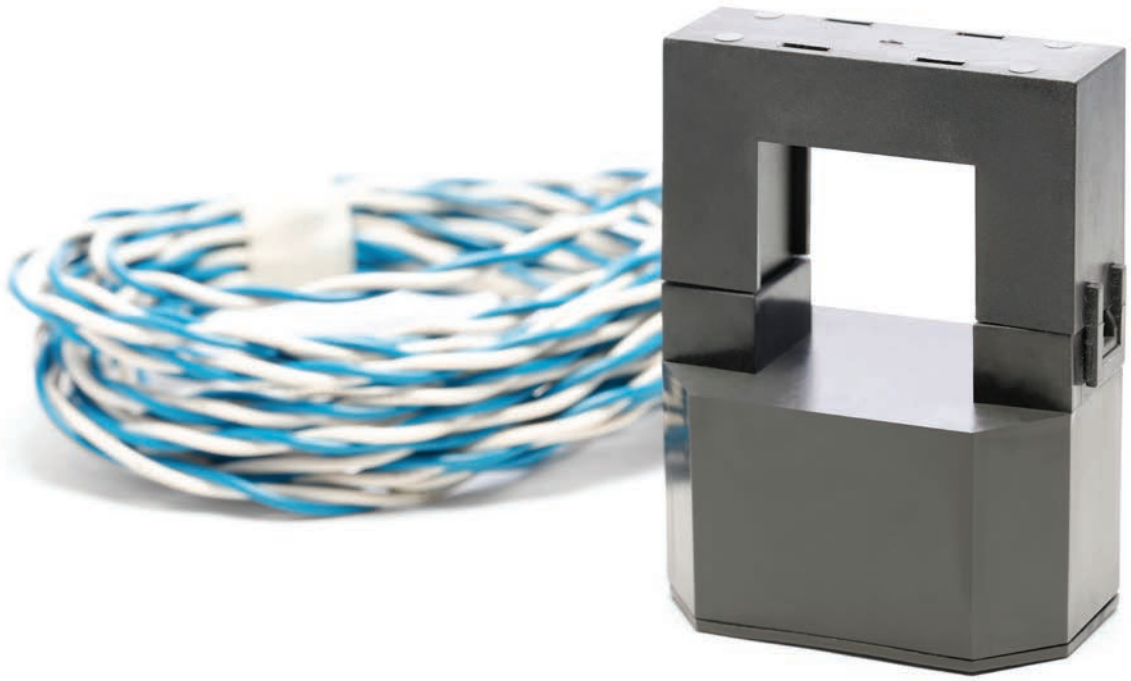
Consumption monitoring: Enphase vs. SolarEdge

Enphase treats consumption monitoring as a vital part of the home energy solution. Other companies, like SolarEdge, seem to view it as an add-on. Because of the value we place on consumption monitoring, Enphase has made it far easier to install the device that makes it possible, the current transformer (CT). Our CTs are also less expensive, and they fit nicely without extra enclosures and conduit.



Enphase has made it easier to install current transformers for consumption monitoring.

Easier installation

Enphase CTs have a smaller size but a larger aperture for wiring, giving installers more room to maneuver. Plus, CTs are the only device you need. No additional circuit breakers, conduit, or other accessories required. In crowded service panels, and those with parallel-connected circuit breakers, you can also use parallel CTs to measure multiple conductors.

Aesthetic and less expensive

By simplifying the CT installation process, Enphase has minimized visual clutter for the homeowner. Since there's less equipment to install, our consumption monitoring also comes at a lower cost.

When CTs are not installer friendly

CTs are usually installed in tight, hard-to-reach places. The wrong dimensions make installations more time consuming and more expensive. The need to install an additional electricity metering device, plus circuit breakers and conduit, also drives up costs and leaves the homeowner with a jumbled mess of electrical components to look at day after day.

Extra accessories

For consumption monitoring, SolarEdge requires CTs plus an electricity metering device, a meter enclosure, additional conduit for electrical conductors, conduit for data, and a circuit breaker. Enphase requires CTs only.

Additional cost

Too much electrical equipment creates an eyesore in the home. And the homeowner has to pay for it. Extra equipment and labor can increase the marginal cost of consumption monitoring by about $500.