



How do we do it?

Electrifying homes with a constrained electrical panel can pose overloading problems with a 100A electric service panel, especially if a second house is added to the same service! This “worst case” challenge was the subject of our study, and with 100A we were successfully able to electrify the gas furnace, water heater, stove and laundry dryer in a 1440 sq ft, 1973 manufactured home while also adding a completely all-electric 600 sq ft new home. It works due to a number of innovations. Firstly, only high-efficiency 120V appliances, including a new-to-market 120V plug-in solar array were used for the entirety of the 600 sq ft home. The second innovation is found in the 1440 sq ft home utilizing both 120V appliances and an existing 240V circuit that was optimized with a NeoCharge Smart Splitter to balance a 240V induction stove and 240V DIY heat pump. The whole solution is capped off with NeoCharge’s whole house API controls that can monitor and manage the smart appliance’s energy use to reduce bills and emissions while always keeping the panel at a safe capacity. Inquire to know more about this exciting project!

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