Guide to Zero Net Energy MULTIFAMILY ALL-ELECTRIC



What is Zero Net **Energy (ZNE)?**

According to the New Buildings Institute, "a zero energy (ZE) building is an extremely energy-efficient building that is designed and operated to produce as much energy as it consumes over the course of the year." Effectively, what this means is the building combines high efficiency with renewable energy to meet its own annual energy consumption needs.

How ZNE Works

Wherever possible, ZNE buildings use costeffective measures to reduce the energy needs of the building. During construction, there are further cost savings because an all-electric building does not require natural gas lines. Once built, renewable energy systems produce enough energy to meet any remaining energy needs. ZNE buildings are performance based, not prescriptive, so a builder can be creative in how they achieve targets.

ZNE Benefits

There are a number of advantages for ZNE buildings, such as lower environmental impacts, lower operating and maintenance costs, better resiliency to power outages and natural disasters and improved energy security. ZNE buildings have tremendous potential to transform the way buildings use energy.

NEW BUILDING INSTITUTE:

https://newbuildings.org/wp-content/uploads/2017/10/GtZ_ ZEProjectGuide_NBI.pdf

ZNE CERTIFICATIONS

ENERGY STAR ® International Living Future Institute LEED New Buildings Institute **Passive House**