

# Download Net Zero Energy Design A Guide For Commercial Architecture

In June 2010, the National Renewable Energy Laboratory (NREL) completed the construction of Phase 1 of their Research and Support Facility (RSF). Located in Golden, Colorado, the RSF is currently the largest NZEB in the U.S. The 220,000 sq. ft. project achieved the Net Zero site energy goal through a performance-based design/build process. NBI has been leading the market development of zero energy (ZE) buildings since 2008 when we supported the development of the first ZNE Action Plan to help California meet its ambitious zero energy goals. A zero-energy building, also known as a zero net energy (ZNE) building, net-zero energy building (NZEB), net zero building or zero-carbon building is a building with zero net energy consumption, meaning the total amount of energy used by the building on an annual basis is roughly equal to the amount of renewable energy created on the site, or in other definitions by renewable energy sources ... Like many new developments, the shift toward zero energy building occurs in steps. The basic principles go back to the 1970s when the first passive solar and super-insulated homes were built. Energy efficiency has improved continuously and public response has been positive, although progress has moved more slowly than some would like. Today, we have [...]