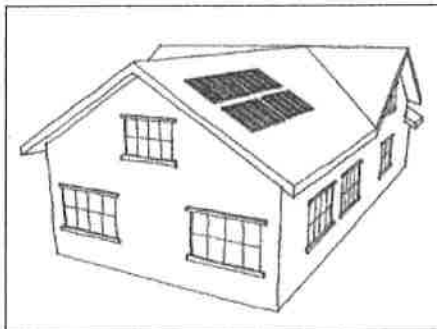


Guideline 9.1: Solar panels should be located to the side or rear roof planes or on a secondary structure (all grey surfaces).



Guideline 9.1: Solar panels should be mounted flush with the roof.

9.0 SOLAR PANELS

Solar panels should be located in unobtrusive places. If it is necessary to mount solar panels on a historic building, rather than elsewhere on the site, it is essential that the panels are installed such that they do not change the character of the building. If solar panels are placed on a roof they should be designed and positioned to have a minimal effect on the character of the structure. Placement on rear facing roof planes of the primary structure should be considered first.

Design Objective

Solar panels should not adversely affect the historic character of the structure to which they are being added.

9.1 Reduce the visual impacts of solar panels as seen from the public right-of-way.

- Locate the solar panels away from public view when feasible.
- Solar panels should be mounted apart from the building or on secondary structures, such as a shed or garage, when feasible.
- Solar panels should be located on new construction, such as a new wing, where possible.
- Locate an attached solar panel in a manner such that it does not affect the primary roof facade elevations.
- Location on a primary or street facing roof plane is generally inappropriate.
- Where roof mounted, solar panels should be flush to the extent feasible.
- If not attached to the building, collectors should be located in side or rear yards. Exposed hardware, frames and piping should have a matte finish, and be consistent with the color scheme of the primary structure.
- Panels not attached to the building should be screened by landscaping to reduce their visibility. However, screening may diminish the effectiveness of the collectors to receive sunlight.
- Alternative technologies, such as photovoltaic shingles, may be appropriate in certain circumstances.

RESIDENTIAL BUILDING ENERGY EFFICIENCY DIAGRAM

This diagram summarizes the principal guidelines for energy efficiency and energy collection that appear in this document. These measures will enhance energy efficiency while retaining the integrity of the historic structure.

Chimney

- Install draft stopper

Attic

- Insulate internally

Walls

- Insulate internally

Roof Material

- Retain & repair

Solar Panels

- Set back from primary facade



Doors

- Retain & repair original doors
- Weatherstrip

Shutters, Awnings & Porches

- Restore porches and awnings

Windows

- Repair & retain original or early windows
- Retain original glass
- Enhance thermal & acoustic efficiency with storm windows (preferable interior)
- Weatherstrip

While Historic District Commissioners should not be expected to evaluate energy efficiency calculations, it is reasonable to ask a property owner to demonstrate that they have conducted an energy audit and developed an overall strategy before undertaking specific projects such as window improvements. This diagram summarizes some of the basic actions related to the exterior of a house. Other, often highly beneficial, work will be internal.