

## Biomass

Much of the biomass projects that Internat Energy Solutions has dealt with include the use of pelleted wood. They are usually produced as a byproduct of saw-milling and other wood transformation activities. The pellets are extremely dense and can be produced with a low humidity content (below 10%) that allows them to be burned with a very high combustion efficiency. Further, their regular geometry and small size allow automatic feeding with very fine calibration. They can be fed to a burner by auger feeding or by pneumatic conveying. Although the burning of wood is releasing carbon in the atmosphere, this carbon dioxide is largely balanced by the carbon dioxide captured in its own growth. In effect it is carbon neutral in its life-cycle as opposed to fossil fuels that is the release of carbon stored millions of years ago.

Projects of biomass are normally supplementary heating sources of another primary space heater. However, in passive house design biomass can be the sole source of space heating. Please see our references to learn more about our projects in passive house design.

