

## Save energy with **GREEN** renovation.



Once you decide it is time to remodel, it is a good idea to consider upgrading your space with systems that will save you energy in the long run. This basement project included the following features that increased the energy efficiency and provides a more comfortable space to enjoy:



- Increasing the R-value (R value is measure of thermal resistance, the higher R value means lower heat loss) for the walls with high thermal resistance materials. The option that was selected here is recommended by new energy codes and takes advantage of the newest materials that provide higher R value and take less space from the room. It is continuous along the whole wall so there are no cold spots as with the traditional installation.



- Vapor barrier was used to prevent any condensation from occurring inside the structure and leading to mold and mildew problems.
- Energy saving light fixtures.
- Light colors were selected for the room to use less light by allowing the light to reflect and bounce off the walls. An accent wall and



woodwork helps to break up the space and provide a nice addition to the room.

- Raised floor along with the carpet and padding that increases the temperature of the floor, making it warmer and softer to walk on. The system also provides the protection from water. Any seepage is directed to a drain not affecting the floor. The raised baseboard allows for air circulation

underneath the floor system, making a nice and dry space below.

- Materials and products used here either come from renewable sources or have various levels of recycling material content.
- Energy efficient windows were installed. The perimeter at joist level was sealed and insulated.
- The existing and new ductworks were sealed and insulated.
- Materials that were used are mold and mildew resistant. Paperless drywall was used on the walls to eliminate mold and mildew problems occurring with the traditional drywall.
- Most of the materials that were originally in the space were either saved and reused, donated or recycled.

In addition to the items listed above, this project has several features that are considered good practices. The ceiling that was used on this project allows you to maximize the height of the room. It features the closest look to a drywall but it allows you to access the space above the ceiling at any time, making future maintenance that much easier. The ceiling has high density, dampening the noise either from the space above or from the basement itself.