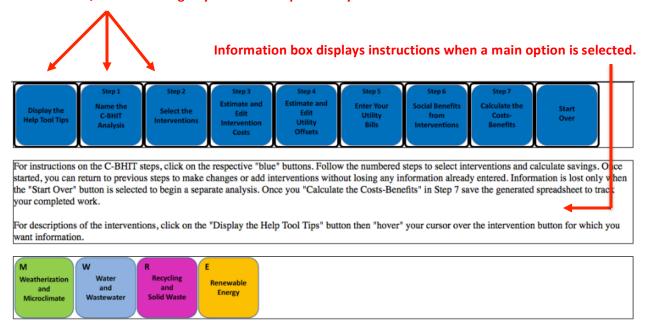
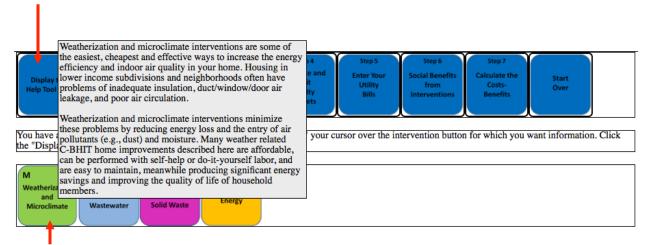
Information and Help Buttons

Follow the "blue button" main option steps to run an analysis. You can return to previous steps to make changes, including selecting additional interventions, without losing any information previously entered.

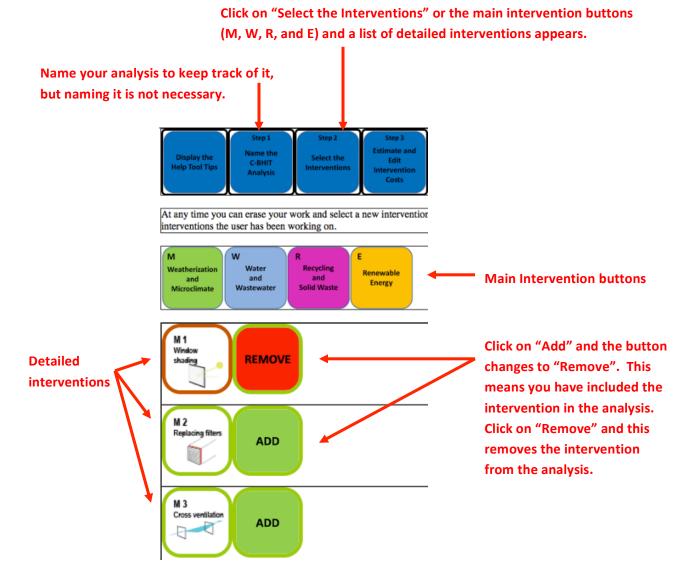


Selecting the "Display the Help Tool Tips" button enables pop-up descriptions when a user hovers the cursor over an intervention.



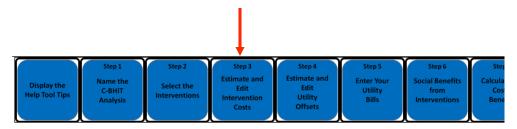
Hovering over "Weatherization and Microclimate" provides its description.

Selecting Interventions

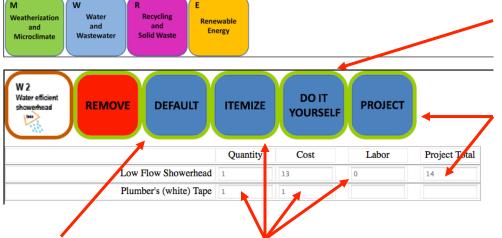


Intervention Costs

After selecting your interventions, click on "Estimate and Edit Intervention Costs" to review the materials and labor costs per intervention. Default costs are provided but can be changed.



Default costs for the required materials and labor for each home intervention are already provided within the model. But if you information about the cost of materials, labor or the project total, then you can select *Itemize* and make individual changes, or zero out labor, or *Project* to enter a project total cost that you can afford.



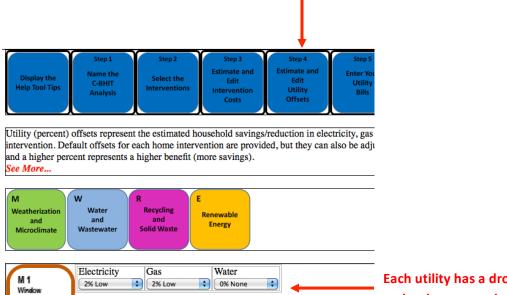
If you select "Do it Yourself" the labor cost changes to \$0.

If you do not know the details but know the overall cost of the intervention, select "Project" and enter the project cost.

Select "Default" to take you back to the initial preselected costs. Select "Itemize" to make individual changes to the quantities/costs of the materials or the labor cost of the intervention. Labor cost is based on a materials to labor ratio, for example, 40:60 means that for every \$40 of materials there is \$60 in labor. If you make a change to the quantity, the labor is automatically calculated based on a ratio (not all interventions have the same ratio). If you have a better estimate of the labor cost, simply change it.

Utility (Savings) Offsets

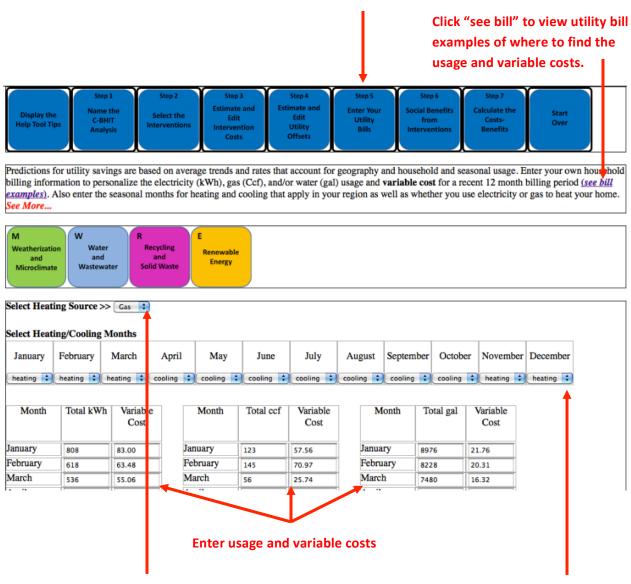
Selecting the utility offsets tells the model the estimated savings in the variable cost of each utility bill. Default offsets are provided but can be changed. They must be realistic estimated savings otherwise the results will not be valid.



Each utility has a drop-down box to make changes to the default offsets.

Utility Usage and Rates

In order to personalize the savings to reflect your household and seasonal usage and rates, select "Enter Your Utility Bills". You are asked to enter the electricity, gas and water usage and variable cost of each for a 12-month period. If you do not have access to your utility bills or do not have time, you can forego this step. But if you omit this information, savings (benefits) will not be calculated. However, you can still calculate the individual and total costs of the selected interventions which may be beneficial for those users that wish only to generate cost information.



Select whether you use gas or electricity to heat your home.

Select the seasonal months for heating and cooling that apply in your region.

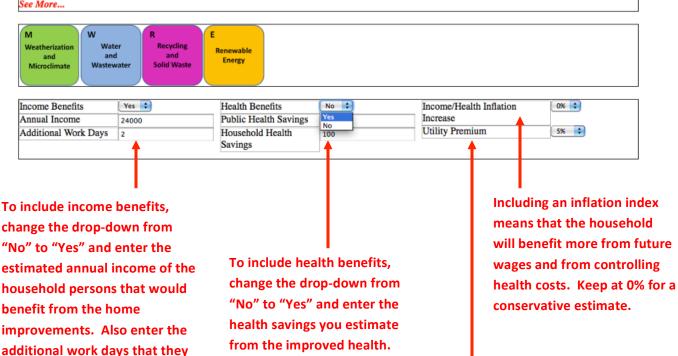
Social Benefits

Improving housing conditions can lead to improved health and, thus, reduced health costs, as well as greater wages when, for example, better health leads to less missed work days. Select this step if you would like to include these social benefits.



Social benefits occur when home improvements positively influence health, education and income. However, unlike economic benefits, they are not easily quantifiable. Users that prefer to only measure the tangible economic gains should skip the social benefits option. But because social benefits exist, and may be very important to you and your household, we offer a simple method of quantifying health and income gains for users who are interested.

See More...



change the drop-down from
"No" to "Yes" and enter the
health savings you estimate
from the improved health.
Public health savings occur for
persons that depend on
government assistance for their
health needs. Household
health savings occur when the
family pays less out-of-pocket

medical bills and medicines.

would gain from not being sick

(based on past experiences).

Including a utility premium means that a relatively lower income household will achieve a higher benefit from home interventions than would someone who is better off.

Results

Select "Calculate the Costs-Benefits" to generate the output. The model uses the average historic utility usage rates and utility offsets to estimate savings. The analysis takes into account whether the selected interventions produce savings year round (e.g., compact fluorescent bulbs produce electricity savings year round); seasonally (e.g., weatherization only produces gas savings during cold months if gas is used to heat the home); or not at all (e.g., composting). Since benefits accumulate over the years, savings are discounted to account for future inflation and risk. Intervention costs accrue in year 1.

