

Green Suppliers Network Calculator Practice Activity

This activity is designed to introduce you to using the Green Suppliers Network calculator. A sample case is provided for a fictitious supplier that has participated in a Green Suppliers Network review and implemented improvement projects. You will act as the data manager and will update the supplier's data provided in the calculator you downloaded.

The Situation: Your fictitious company is a metal parts manufacturer that produces 20,800 metal parts a year. The calculator file entitled *Calculator_Training_Activity.xls* was populated with your baseline data taken prior to the Green Suppliers Network review.

Your Green Suppliers Network review team recommended improvements to the milling and packaging process. You will need to open the calculator and revise the data to reflect these improvements. Remember to **“Enable Macros”** when opening the calculator.

The Setup: The calculator file opens to the *Process Worksheet for Milling – Before Review*. You will need to tell the calculator that you would like to enter “after review” data. Do this by selecting the **“After Review”** button on the top of the worksheet.

Process Improvement #1: The Milling process was improved by re-engineering the pattern in which parts are cut out of the steel plates. To account for this improvement, you will need to:

- Revise the amount of stainless steel used by replacing the value with 22,600 pounds per year.
- Revise the amount of scrap metal generated by replacing the value with 2,300 pounds per year.

Hint: Remember that once you make changes to the Milling Process Worksheet, you will need to select the **“Next”** button once to record the changes made.

Process Improvement #2: The Packaging process was also improved to greatly reduce the amount of packaging materials consumed. To reflect these improvements, you will need to:

- Reduce the amount of wood pallets used per day on the **Process Worksheet for Packaging – After Review** from 10 to 1.

Hint: Use the **“Table of Contents”** button to navigate from the *Milling – After Review* to the *Packaging – After Review* process worksheets.

- Revise the amounts of both cardboard and metal banding used with zero pounds.
- Add shrink wrap as a material used by selecting the “Add Material” button, and entering data to show that you use 9 pounds of shrink wrap per day at a cost of \$2.15 per pound.

Hint: Remember that once you make changes to the Packaging Process Worksheet, you will need to select the **“Next”** button to record the changes made.



Results: Now try to answer a few quiz questions about the results generated by the calculator.

Hint: Use the “**Table of Contents**” button to navigate from the *Process Worksheet for Packaging – After Review* to the *Results* worksheet.

Quiz Questions:

1. Purchasing costs were reduced by what percent?
2. Nonhazardous materials use was reduced by how many metric tons?

Hint: Use the **green dropdown menu** located on the *Results* worksheet to format the results in “metric tons.”

3. What is the dollar amount of purchasing costs avoided per day?

Hint: Use the **green dropdown menu** located on the *Results* worksheet to format the results in “per day.”