

## **Abstract**

The goal of the project was to create a database that would be a repository for the high volume of sustainability data Illumina would like to collect. To couple with the database the project team's goal was to design a system for visualizing the data graphically. Illumina required a database system that would be user-friendly, easy to add, delete, and edit data inputs, as well as a program that would allow the user to easily sort and graph data. The intent of the graphical representation of the data is to publish the graphs in a monthly report that would be circulated internally, as well as some graphs that would be published through public domains. A number of difficulties along the way led to some crucial design changes, including Microsoft Access being the only well-established program capable of meeting the project goals, and Microsoft Excel being the only system capable of creating dynamic graphs that can be easily exported.