**Harsh Panchal**

**Under what condition might this method be best?**

Pareto Dominance: This method is the best option when we have to solve the problem that involves multiple objectives and the objectives are not related to each other and not dominated by other.

Stochastic Dominance: This method is used to optimize the problems that are too large and complex. It can be used when the objective tends to do some random changes and the outcomes are different.

Belief Dominance: This method is mostly used when the decision is to made by expert opinions and their thoughts about the different uncertainties and their solutions.

**When might this method be misleading?**

Pareto Dominance: If the problems are somewhat related to each other or dominated by each other than it can be difficult to find an optimal solution. Also if there are very high numbers of objectives then it will be difficult to select an optimal solution for the problem.

Stochastic Dominance: It might not be the best for small problems when there are low number of objectives and also not ideal when the problem doesn’t require multiple evaluations

Belief Dominance: This method can be misleading if the expert opinions came out to be wrong and this can make the whole process difficult of finding the optimal solution.

**In this project, which of these three methods would be the best? Why?**

According to me in this project the Pareto Dominance method would be the best as we need to consider the trade-off of cost and pollution and also consider the multiple objectives.