

SDG Choice

6 – Clean water and sanitation

2 – Zero Hunger

I chose SDG2 and SDG6 because I believe that it is important that fundamental human survival needs such as food and water need to be addressed first before we tackle other problems. If these needs are not satisfied, we cannot achieve anything else since people will be preoccupied with trying to survive. Moreover, Vancouver is known for its water quality, so we can easily find expert advice for our projects.

Additionally, there are agricultural areas in B.C. which means we can find experts easily should we need information on how we can address SDG2 to reduce food insecurity.

Our firm should consider learning about these SDGs because climate change is altering weather patterns around the world, which leads to unreliable water and food supplies. Even in B.C., many areas are facing increasingly common and severe drought conditions which not only affect drinking water supply, but also agricultural crop yields. This has led to increasing water restrictions and rising food prices. Coupled with unprecedented inflation, many families are facing food insecurity. By addressing these SDGs, our company can help families access food and water more readily and contribute to society. The government is also seeking to expand current water supply capacity as part of the *Water Supply Outlook 2120*. As such, tackling SDG6 (Clean water and sanitation) will open up opportunities for our company to acquire lucrative government projects to supply Vancouver with clean water.

The engineering option I recommend is drip irrigation. Drip irrigation is a technology that allows agriculture in arid areas by directly providing plant roots with water instead of spraying fields with water. This technology greatly reduces water consumption in agriculture. Reducing water use preserves freshwater for consumption and increases agricultural output despite increasingly dry climate conditions from climate change..