

### **Question 15.1**

Describe a situation or problem from your job, everyday life, current events, etc., for which optimization would be appropriate. What data would you need?

We use optimization at my job every day. One common optimization model we look at is the best way to set our solar site trackers to get the most sunlight energy in a certain day. Data that we would need are:

- I. Sunrise time**
- II. Sunset time**
- III. Site location**
- IV. Site panels relative direction compared to sun's arc**
- V. Temperature**
- VI. Wind direction**
- VII. Wind speed**
- VIII. Vegetation height**
- IX. Etc.**