

# Meeting Minutes

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Meeting No. 2

Time : 3:00 PM Monday, 6 September 2021

Location : Discord 3:00 PM

Attendance : Gilbert, Cynthia, Yuhong, Karina, Gerry

Agenda :

- Discuss last week's task and what we can do before the next meeting.

Task :

- Data Preprocessing Prepping for Algorithm Development (Karina)
  - Finding min/max spot prices and demand daily
- Checkpoint 2 (Gilbert)
- Checkpoint 3 (Yuhong)
- First Algorithm
  - Try to calculate maximum revenue based on highest and lowest spot prices(Cynthia, Gilbert, Gerry)
- Finding External Dataset (?)
- Optimal battery charge/discharge by regression (?)
- Bonus task development (ALL)

Plan:

- Finish mandatory Task by 23 September 2021
- Bonus task by 6 October 2021

Summary:

For mandatory tasks, we are going to first find the optimal battery discharge time and revenue perhaps by doing linear regression (if doable) or EM algorithm (more doable, because their revenue itself is related with battery charge and discharge).

For bonus task, use both spot prices and supply demand to do time series regression or (perhaps reinforcement learning)