Excel files specifications for Bitcoin CO2 projects:  
  
**1. Pool spreadsheets:**

a. The Excel file should contain a separate sheet for each date for which there is an information.

b. This Excel file mustn’t contain redundant sheets, only sheets with useful data.  
c. First row is always the header row, which contains the names of the columns. The code doesn’t parse the actual names of the columns, so you can write anything in the first row, the important part is that the following rows follow the same structure as in point [e.] .

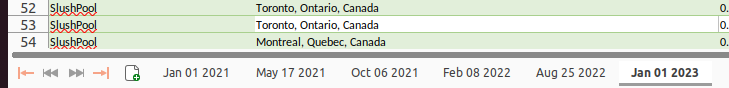
  
d. EXTREMELY IMPORATNT: sheet names are used to determine for what date the Excel data refers to!  
   
The format in which the code expects the sheet names:  
  
MONTH(SPACE)DD(SPACE)YYYY  
  
For example:  
Jan 23 2021  
Nov 01 2002  
  
Note 1: if the day of the month contains only 1 digit (1,2,3,4...,9), write it as 01, 02, ..., 09.  
Note 2: the name of the month is shortened, and the code expects a short version of the month in the sheet name.   
Here is a correspondence between short names and full names:  
  
'Jan' : 'January'   
'Feb' : 'February'   
'Mar' : 'March'   
'Apr' : 'April'   
'May' : 'May'  
'Jun' : 'June'  
'Jul' : 'July'  
'Aug' : 'August'

'Sep' : 'September'

'Oct' : 'October'

'Nov' : 'November'

'Dec' : 'December'

So, if one wants to save data for March 1 2021, they would change the sheet name to Mar 01 2021.  
  
e. Columns and their order of in the sheet:  
  
- Pool name

- Location

- Emission factor

- Source of information (not used anywhere but saved anyways)

- Latitude of the location

- Longitude of the location

f. In the end of each sheet, add two rows for ‘unknown’ and ‘Pools with no server info’ pools (don’t add any spaces before or after, this is hardcoded; capitalization also matters). Those are required since if there is no information about the pool in the sheet with the closest date from the past, the code considers this pool as “unrecognized”. See screenshot below for the data that should be filled in those rows (can be copy-pasted from the example file).

g. If one wants to specify that the server location can’t be determined since it is protected by Cloudflare, one should write “Region unknown” in the location column (don’t add any spaces before or after, this is hardcoded; capitalization also matters).  
  
h. Try to avoid typos in location name, pool name, coordinates to avoid creation of redundant records and incorrect calculations down the line.

i. If there is no pool name provided in the row OR the name of the pool consists completely of whitespaces, the row is skipped. (security measure for rows that have been worked on but don’t contain any useful data)

**2. Mining gear spreadsheet:**

a. The code expect only one sheet of data (redundant sheets can be present and will be ignored).  
b. The sheet should be named "Antminer Models” (capitalization matters, hardcoded, no additional spaces before or after).  
c. Columns and their order of in the sheet:  
  
- Model name

- Release date (format: **YYYY-MM-DD**).

Excel might show the format in a different manner (e.g. the value of the cell is in format YYYY-MM-DD, yet after you click away from the cell, it shows the cell as MM-DD-YYYY), but please fill out the cells as **YYYY-MM-DD**.

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- Efficiency

d. If there is no gear name provided in the row OR the name of the gear name consists completely of whitespaces, the row is skipped. (security measure for rows that have been worked on but don’t contain any useful data)

**3. General info:**

a. If you upload new information to complement existing data already in the database, **create a separate Excel spreadsheet** following the guidelines described above.

b. If you have any questions, please let me know ([vladyslav.nekriach@gmail.com](mailto:vladyslav.nekriach@gmail.com)) and provide your Excel spreadsheet with a brief description of what doesn’t work. I’ll look at the server logs and try to debug the issue.