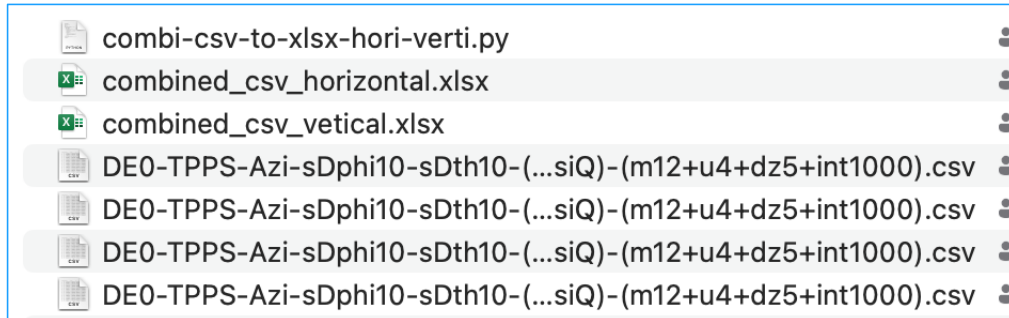# Combine multiple .csv files into one .xlsx file.

1. Input files should have the same dimensions (rows and columns).
2. Place the Python file in the directory where the multiple .csv files are located.
3. Open the Python file and adjust the 'combi-type' i.e. combi_type = 'vertical'
   'horizontal' → side-by-side in one sheet
   'vertical' → stacking vertically

```python
import os
import pandas as pd

combi_type = 'horizontal' ### choose 'horizontal' or 'vertical'

def combi_csv(concat_type = combi_type):
    folder_path = os.getcwd()
```

4. Save and run.
5. The results are exported as an excel file named i.e. 'combined_csv_vertical'

```
combi-csv-to-xlsx-hori-verti.py
combined_csv_horizontal.xlsx
combined_csv_vetical.xlsx
DE0-TPPS-Azi-sDphi10-sDth10-(...siQ)-(m12+u4+dz5+int1000).csv
DE0-TPPS-Azi-sDphi10-sDth10-(...siQ)-(m12+u4+dz5+int1000).csv
DE0-TPPS-Azi-sDphi10-sDth10-(...siQ)-(m12+u4+dz5+int1000).csv
DE0-TPPS-Azi-sDphi10-sDth10-(...siQ)-(m12+u4+dz5+int1000).csv
```

make sure that all .csv (or .xlsx) files in the directory have the same dimension.

combined_csv_horizontal.xlsx

A1 | fx | DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv_phi_temp

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	t-15+psiQ)	lt-15+psiQ)	ilt-15+psiQ	0+tilt-15+p	tilt-15+psi	+tilt-15+psi	0+tilt-15+ps	0+tilt-15+ps	t-30+psiQ)	lt-30+psiQ)	ilt-30+psiQ	0+tilt-30+ps	tilt-30+psi	+tilt-30+psi	0+tilt-30+ps	0+tilt-30+p	t-45+psiQ)	lt-45+psiQ)	ilt-45+psiQ	0+tilt-45+p	tilt-45+psi	+tilt-45+psi	0+tilt-45+p	tilt-45+psi	t-60+psiQ
2	0	-15	537.2744	5	4	0.290069	2.09E-17	7.2E-17	0	-30	407.0297	5	4	0.293705	4.93E-17	1.68E-16	0	-45	528.0044	5	4	0.266803	7.28E-17	2.73E-16	
3	15	-15	325.612	5	4	0.287545	2.04E-17	7.11E-17	15	-30	325.56	5	4	0.272379	4.35E-17	1.6E-16	15	-45	230.738	5	4	0.287368	6.91E-17	2.41E-16	1
4	30	-15	337.2318	5	4	0.289016	2.03E-17	7.03E-17	30	-30	317.4986	5	4	0.313951	3.92E-17	1.25E-16	30	-45	202.9599	5	4	0.317319	5.67E-17	1.79E-16	3
5	45	-15	405.4681	5	4	0.317281	1.97E-17	6.2E-17	45	-30	535.3768	5	4	0.341022	2.78E-17	8.14E-17	45	-45	483.1375	5	4	0.381407	4.63E-17	1.21E-16	4
6	60	-15	216.9157	5	4	0.371741	2.16E-17	5.8E-17	60	-30	357.5345	5	4	0.392136	2.41E-17	6.16E-17	60	-45	85.4771	5	4	0.397773	2.99E-17	7.51E-17	6
7	75	-15	25.03055	5	4	0.342669	2.14E-17	6.24E-17	75	-30	510.1517	5	4	0.439596	2.28E-17	5.18E-17	75	-45	199.4456	5	4	0.64699	2.82E-17	4.36E-17	7
8	90	-15	67.80065	5	4	0.303124	2.46E-17	8.11E-17	90	-30	291.1663	5	4	0.462393	2.78E-17	6.02E-17	90	-45	267.0818	5	4	0.686171	2.95E-17	4.3E-17	9
9	105	-15	248.2221	5	4	0.301492	2.9E-17	9.62E-17	105	-30	197.0273	5	4	0.395945	3.53E-17	8.91E-17	105	-45	202.8648	5	4	0.523025	3.58E-17	6.85E-17	10
10	120	-15	215.9191	5	4	0.303039	3.7E-17	1.22E-16	120	-30	535.0467	5	4	0.308633	4.31E-17	1.4E-16	120	-45	355.0367	5	4	0.391271	4.5E-17	1.15E-16	12
11	135	-15	34.39695	5	4	0.288517	4.24E-17	1.47E-16	135	-30	219.0958	5	4	0.300554	5.88E-17	1.96E-16	135	-45	179.293	5	4	0.327459	5.52E-17	1.69E-16	13
12	150	-15	230.0226	5	4	0.272903	4.7E-17	1.72E-16	150	-30	365.7638	5	4	0.273114	6.74E-17	2.47E-16	150	-45	399.7823	5	4	0.300548	6.28E-17	2.09E-16	15
13	165	-15	260.5977	5	4	0.277865	5.07E-17	1.83E-16	165	-30	401.0602	5	4	0.267987	6.98E-17	2.6E-16	165	-45	8.934319	5	4	0.274565	6.95E-17	2.53E-16	16
14	180	-15	311.1585	5	4	0.276951	5.25E-17	1.9E-16	180	-30	233.1002	5	4	0.266594	7.38E-17	2.77E-16	180	-45	254.9285	5	4	0.272331	7.31E-17	2.68E-16	18
15	195	-15	139.9294	5	4	0.281603	4.99E-17	1.77E-16	195	-30	518.6011	5	4	0.252958	7.07E-17	2.8E-16	195	-45	290.9935	5	4	0.272943	6.94E-17	2.54E-16	19
16	210	-15	269.9091	5	4	0.277032	4.73E-17	1.71E-16	210	-30	311.3905	5	4	0.295693	6.72E-17	2.27E-16	210	-45	155.54	5	4	0.269409	6.17E-17	2.29E-16	21
17	225	-15	172.7568	5	4	0.272698	4E-17	1.47E-16	225	-30	267.5089	5	4	0.299883	5.67E-17	1.89E-16	225	-45	234.8052	5	4	0.341904	5.64E-17	1.65E-16	22
18	240	-15	257.5272	5	4	0.292337	3.57E-17	1.22E-16	240	-30	277.1097	5	4	0.332386	4.78E-17	1.44E-16	240	-45	328.1294	5	4	0.391866	4.5E-17	1.15E-16	24
19	255	-15	217.9828	5	4	0.334493	3.01E-17	8.99E-17	255	-30	137.493	5	4	0.357902	3.39E-17	9.46E-17	255	-45	385.6762	5	4	0.523525	3.72E-17	7.1E-17	25
20	270	-15	168.4089	5	4	0.316203	2.62E-17	8.28E-17	270	-30	194.3577	5	4	0.413133	2.5E-17	6.04E-17	270	-45	389.1265	5	4	0.638073	2.86E-17	4.48E-17	27
21	285	-15	25.42778	5	4	0.308767	1.96E-17	6.35E-17	285	-30	265.634	5	4	0.410285	2.13E-17	5.18E-17	285	-45	353.8534	5	4	0.691342	2.88E-17	4.17E-17	28
22	300	-15	202.4549	5	4	0.321559	1.99E-17	6.18E-17	300	-30	269.1252	5	4	0.36413	2.32E-17	6.38E-17	300	-45	210.4812	5	4	0.451275	3.37E-17	7.46E-17	30
23	315	-15	252.2809	5	4	0.30864	1.94E-17	6.29E-17	315	-30	434.1229	5	4	0.316492	2.91E-17	9.2E-17	315	-45	460.624	5	4	0.339043	4.38E-17	1.29E-16	31
24	330	-15	17.59218	5	4	0.25076	1.92E-17	7.66E-17	330	-30	262.4128	5	4	0.28759	3.72E-17	1.29E-16	330	-45	273.6801	5	4	0.293501	5.85E-17	1.99E-16	33
25	345	-15	293.324	5	4	0.293424	2.12E-17	7.22E-17	345	-30	326.4384	5	4	0.283176	4.46E-17	1.57E-16	345	-45	526.2276	5	4	0.288126	6.49E-17	2.25E-16	34
26	360	-15	171.9518	5	4	0.243748	1.93E-17	7.93E-17	360	-30	144.25	5	4	0.267424	4.56E-17	1.7E-16	360	-45	7.13825	5	4	0.269726	7.26E-17	2.69E-16	36

combined_csv_vertical.xlsx

	A	B	C	D	E	F	G	H	I
1	phi_temp	theta_fix	random	dz	u	ratio	OH	CH	Source_File
2	0	-15	537.2744	5	4	0.290069	2.09E-17	7.2E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
3	15	-15	325.612	5	4	0.287545	2.04E-17	7.11E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
4	30	-15	337.2318	5	4	0.289016	2.03E-17	7.03E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
5	45	-15	405.4681	5	4	0.317281	1.97E-17	6.2E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
6	60	-15	216.9157	5	4	0.371741	2.16E-17	5.8E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
7	75	-15	25.03055	5	4	0.342669	2.14E-17	6.24E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
8	90	-15	67.80065	5	4	0.303124	2.46E-17	8.11E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
9	105	-15	248.2221	5	4	0.301492	2.9E-17	9.62E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
10	120	-15	215.9191	5	4	0.303039	3.7E-17	1.22E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
11	135	-15	34.39695	5	4	0.288517	4.24E-17	1.47E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
12	150	-15	230.0226	5	4	0.272903	4.7E-17	1.72E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
13	165	-15	260.5977	5	4	0.277865	5.07E-17	1.83E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
14	180	-15	311.1585	5	4	0.276951	5.25E-17	1.9E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
15	195	-15	139.9294	5	4	0.281603	4.99E-17	1.77E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
16	210	-15	269.9091	5	4	0.277032	4.73E-17	1.71E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
17	225	-15	172.7568	5	4	0.272698	4E-17	1.47E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
18	240	-15	257.5272	5	4	0.292337	3.57E-17	1.22E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
19	255	-15	217.9828	5	4	0.334493	3.01E-17	8.99E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
20	270	-15	168.4089	5	4	0.316203	2.62E-17	8.28E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
21	285	-15	25.42778	5	4	0.308767	1.96E-17	6.35E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
22	300	-15	202.4549	5	4	0.321559	1.99E-17	6.18E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
23	315	-15	252.2809	5	4	0.30864	1.94E-17	6.29E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
24	330	-15	17.59218	5	4	0.25076	1.92E-17	7.66E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
25	345	-15	293.324	5	4	0.293424	2.12E-17	7.22E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
26	360	-15	171.9518	5	4	0.243748	1.93E-17	7.93E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-15+psiQ)-(m12+u4+dz5+int1000).csv
27	0	-30	407.0297	5	4	0.293705	4.93E-17	1.68E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
28	15	-30	325.56	5	4	0.272379	4.35E-17	1.6E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
29	30	-30	317.4986	5	4	0.313951	3.92E-17	1.25E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
30	45	-30	535.3768	5	4	0.341022	2.78E-17	8.14E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
31	60	-30	357.5345	5	4	0.392136	2.41E-17	6.16E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
32	75	-30	510.1517	5	4	0.439596	2.28E-17	5.18E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
33	90	-30	291.1663	5	4	0.462393	2.78E-17	6.02E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
34	105	-30	197.0273	5	4	0.395945	3.53E-17	8.91E-17	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
35	120	-30	535.0467	5	4	0.308633	4.31E-17	1.4E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv
36	135	-30	219.0958	5	4	0.300554	5.88E-17	1.96E-16	DE0-TPPS-Azi-sDphi10-sDth10-(azi0+tilt-30+psiQ)-(m12+u4+dz5+int1000).csv

Combine multiple .xlsx files into one .xlsx file.

1. Works the same way as 'csv-to-xlsx.py'

   make sure that all .csv (or .xlsx) files in the directory have the same dimension.