

```

from google.colab import drive
drive.mount('/content/drive')
Mounted at /content/drive

import os
os.chdir('/content/drive/MyDrive/Colab Notebooks')

import pandas as pd
import plotly.express as px
import plotly.graph_objects as go

```

```
spidt = pd.read_csv('spidt.csv')
spidt_total = pd.read_csv('spidt_total.csv')
```

```
spidt.head()
```

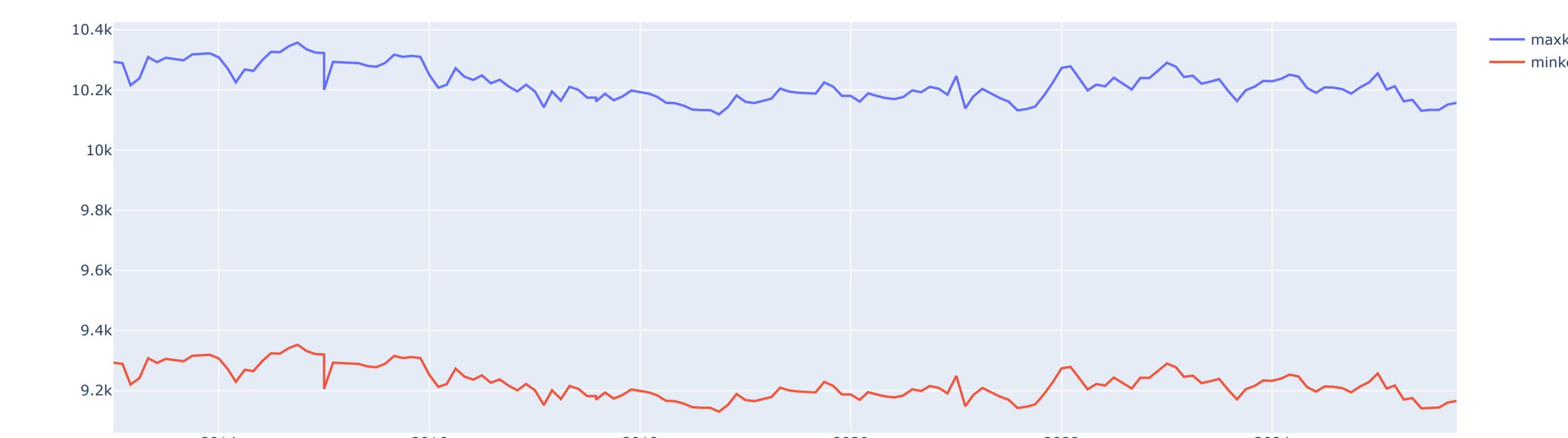
	Unnamed: 0	index	spicMaxKcal	spMonth	spicMaxMj	spYear	spicMinMj	spicCpmn	spicMinKcal	spym	
0	0	0	10303.573	1	43.139	2013	38.947	㈜광동도시가스	9302.427	2013-01	11
1	1	1	10290.914	1	43.086	2013	38.898	㈜대한이엔에스	9290.613	2013-01	11
2	2	2	10296.169	1	43.108	2013	38.918	㈜부산도시가스	9295.517	2013-01	11
3	3	3	10295.691	1	43.106	2013	38.917	㈜삼천리	9295.071	2013-01	11
4	4	4	10284.704	1	43.060	2013	38.874	㈜에스코	9284.818	2013-01	11

다음 단계: [spidt 변수로 코드 생성](#) | [New interactive sheet](#)

```

fig = go.Figure()
fig.add_trace(go.Scatter(x=spidt_total['spym'], y=spidt_total['spicMaxKcal'], mode = 'lines', name='maxkcal'))
fig.add_trace(go.Scatter(x=spidt_total['spym'], y=spidt_total['spicMinKcal'], mode = 'lines',name='minkcal'))
fig

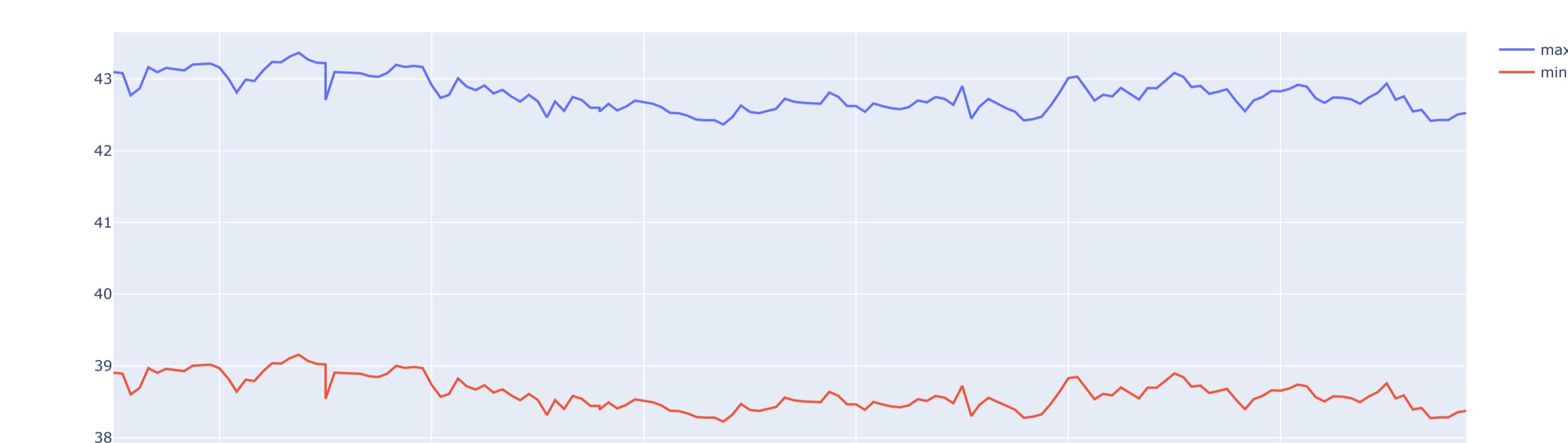
```



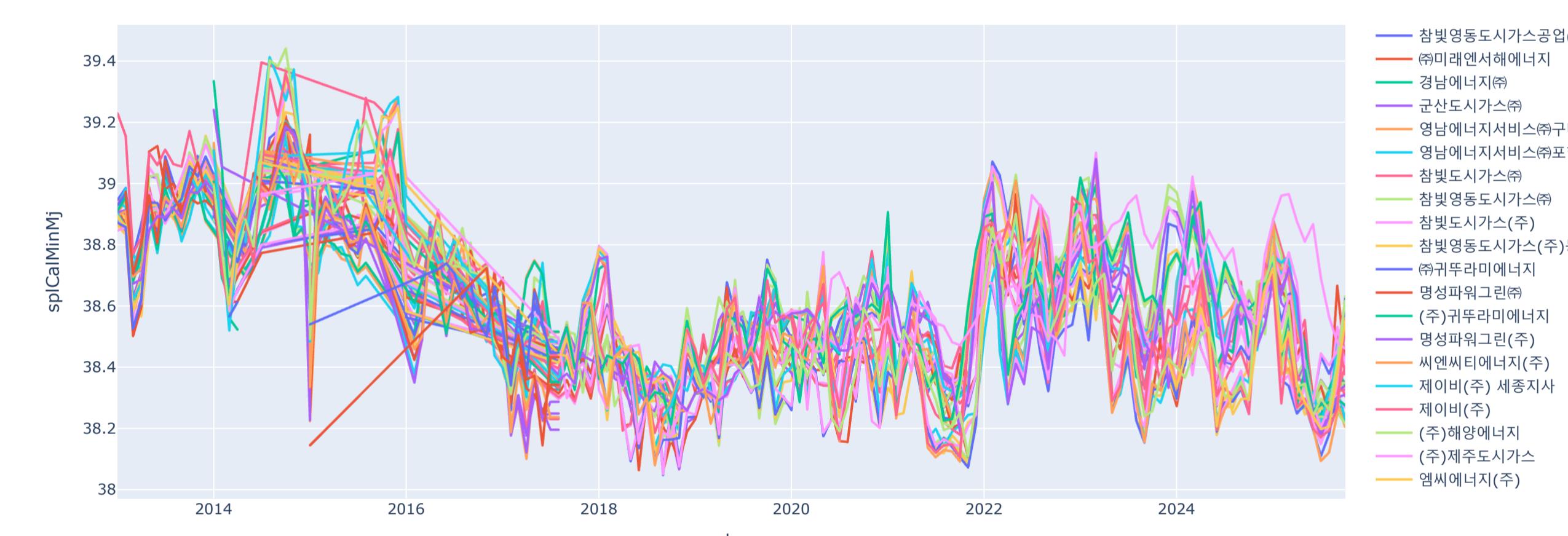
```

fig = go.Figure()
fig.add_trace(go.Scatter(x=spidt_total['spym'], y=spidt_total['spicMaxMj'],mode = 'lines',name='maxmj'))
fig.add_trace(go.Scatter(x=spidt_total['spym'], y=spidt_total['spicMinMj'],mode = 'lines',name='minmj'))
fig

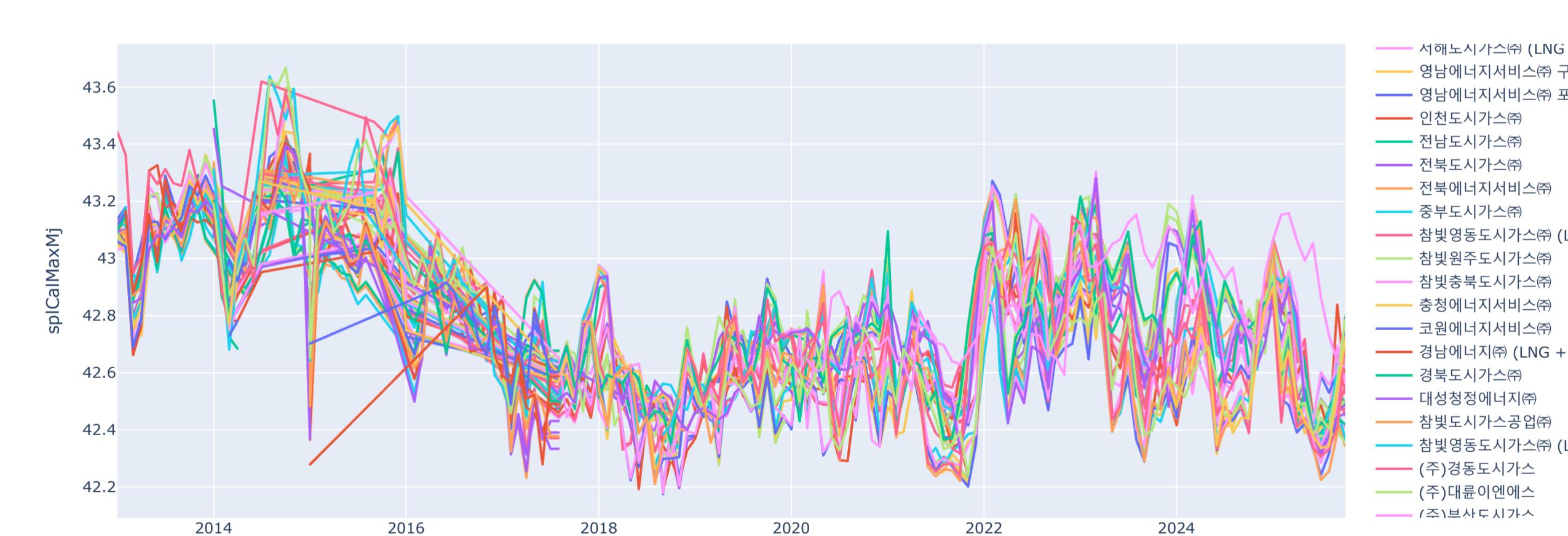
```



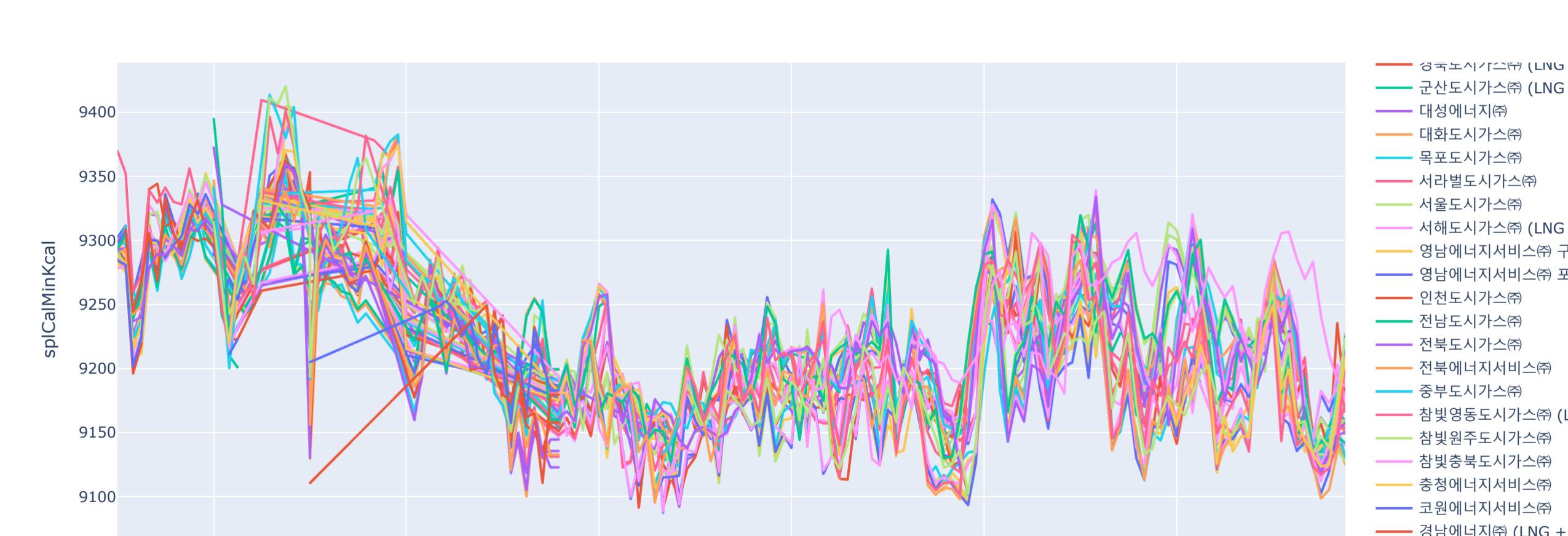
```
fig = px.line(spidt, x="spym", y="spicMinMj", color='spicCpmn')
fig
```



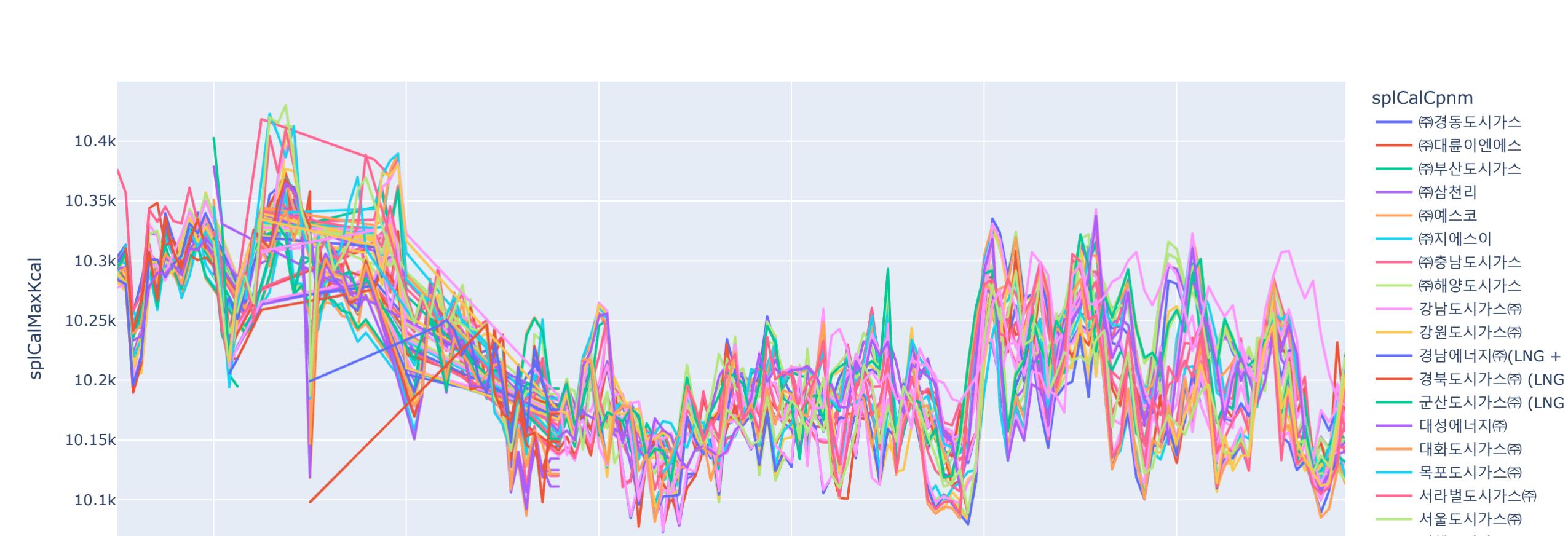
```
fig = px.line(spidt, x="spym", y="spicMaxMj", color='spicCpmn')
fig
```



```
fig = px.line(spidt, x="spym", y="spicMinKcal", color='spicCpmn')
fig
```



```
fig = px.line(spidt, x="spym", y="spicMaxKcal", color='spicCpmn')
fig
```



```
use_spl = pd.read_csv('한국가스공사_용도별 월 공급량_20250630.csv', encoding='cp949')
```

```
use_spl['splym'] = use_spl[['연도'].astype('str') + '-' + use_spl[['월']].astype('str')]
use_spl
```

연도	월	용도	공급량	splym	
0	2016	1	도시가스	2645618	2016-1
1	2016	2	도시가스	2191413	2016-2
2	2016	3	도시가스	1849750	2016-3
3	2016	4	도시가스	1218500	2016-4
4	2016	5	도시가스	978755	2016-5
...	...	...	...	...	...
223	2025	2	발전	1545019	2025-2
224	2025	3	발전	1380445	2025-3
225	2025	4	발전	1240976	2025-4
226	2025	5	발전	1262676	2025-5
227	2025	6	발전	1063121	2025-6

228 rows × 5 columns

다음 단계: [use\\_spl 변수로 코드 생성](#) [New interactive sheet](#)

```
use_spl_city = use_spl[use_spl[['용도']]=='도시가스']
use_spl_gen= use_spl[use_spl[['용도']]=='발전']
```

```
fig = go.Figure()
fig.add_trace(go.Scatter(x=use_spl_gen['splym'], y=use_spl_gen[['공급량']].mode = 'lines', name='발전용가스'))
fig.add_trace(go.Scatter(x=use_spl_city['splym'], y=use_spl_city[['공급량']].mode = 'lines', name='도시가스'))
fig
```

