

Editing the existing Gas Json File in the new Tariff Tool

IES Edit gas rates

Name: Schedule Example

Description: Custom Rates. ABC Utility, range 0-1000 therms

Daily	ADU			Procurement				Transportation				GPPS			
Rate (\$/therm)	Min	Max	Rate (\$/day)	Season	Min	Max	Rate (\$/therm)	Season	Min	Max	Rate (\$/therm)	Season	Min	Max	Rate (\$/therm)
0.0	0	5.0	0	Summer	0.0	1000.0	0.42	Summer	0.0	1000.0	0.7	Summer	0.0	1000.0	0.0
	5.0	16.0	0	Summer	1000.0	99999999.0	0.42	Summer	1000.0	99999999.0	0.42	Summer	1000.0	99999999.0	0.0
	16.0	41.0	0	Winter	0.0	1000.0	0.42	Winter	0.0	1000.0	0.82	Winter	0.0	1000.0	0.0
	41.0	123.0	0	Winter	1000.0	99999999.0	0.42	Winter	1000.0	99999999.0	0.49	Winter	1000.0	99999999.0	0.0
	123.0	99999999.0	0												

Overwrite Save new Cancel

Editing the existing Gas Json File

i) Locating file

Open the project folder. There you will find a file called gas_rates.json. This is the python script refers to when running calculations.

ii) Editing the Json file

a) Make a copy of one of the tariff's script. Example to copy the PGE GNR1 rate schedule copy row 3 through 190.

b) Add comma “,” after the parenthesis in row 2,106.

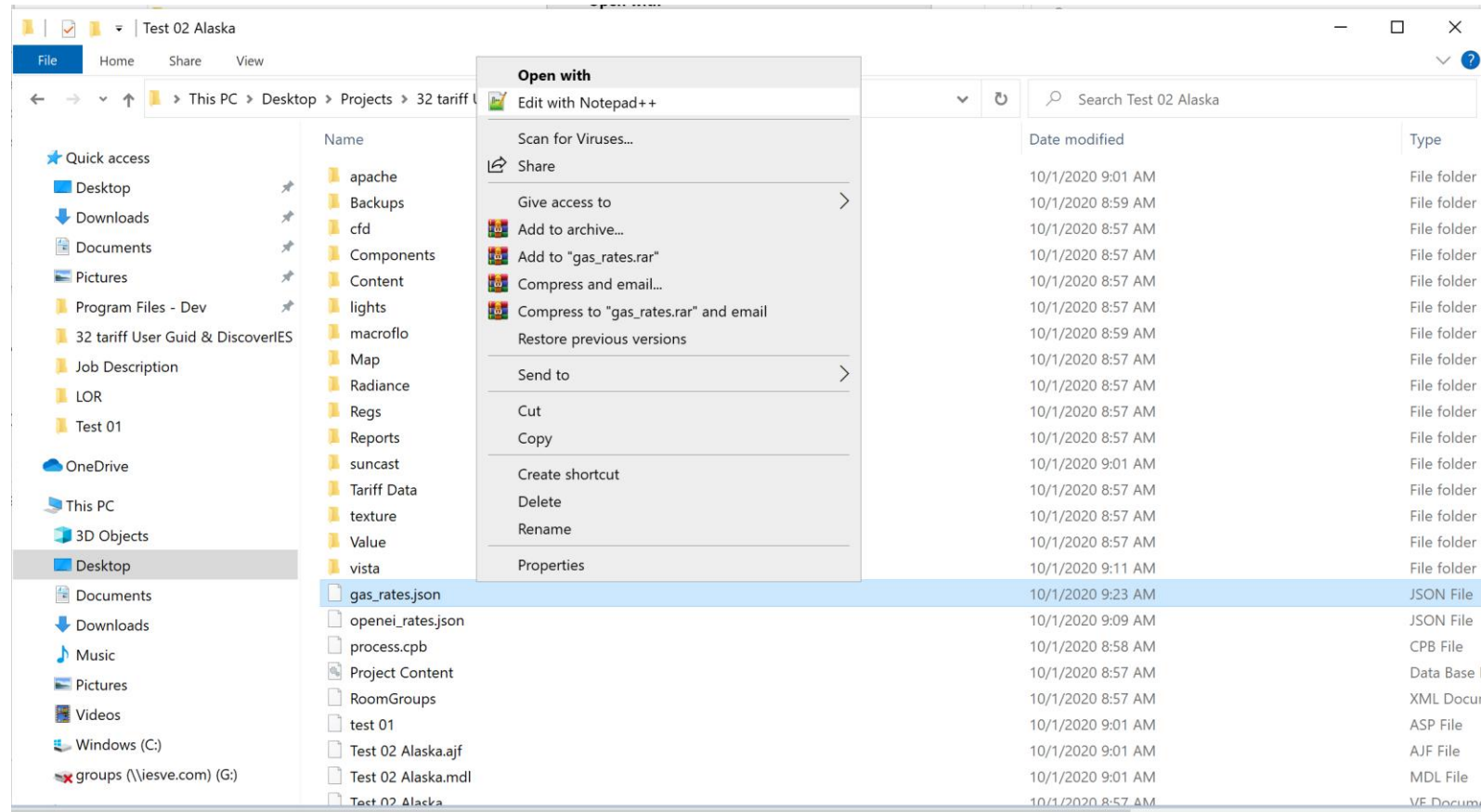
c) paste the copied data on row 2107 of the file.

As you scroll down the newly pasted script you can make following changes within the different rows of the script:

Section covered	Possible edits
Average Daily Usage (if applicable)	Can edit the ADU
Description	Description of the rate structure
Procurement and Transportation charges	Procurement and Transportation range Procurement and Transportation charges
GPPPS (if applicable)	Can edit the rates
Season	Can edit the winter and summer period, winter = 0 summer = 1
Flat charge	User can edit these flat charges
Utility name/category/source	User can edit these sections

Locating File

- You should be able to locate a Json file in your project directory called “gas_rates.json
- Open the file in notepad or “Notepad++”



Editing Json: Making a copy of existing tariff script

- Section to be copied shown in this section. Example: G-NR1, PGE

```
1  {
2  "rates": [
3  {
4      "country": "USA",
5      "aducustomerchargeunits": "$/day",
6      "aducustomercharges": [
7      {
8          "adumin": 0,
9          "adumax": 5.0,
10         "rate": 0.27048,
11         "unit": "Therms"
12     }
13     ],
14     },
15     [
16     {
17         "adumin": 5.0,
18         "adumax": 16.0,
19         "rate": 0.52106,
20         "unit": "Therms"
21     }
22     ],
23     [
24     {
25         "adumin": 16.0,
26         "adumax": 41.0,
27         "rate": 0.95482,
28         "unit": "Therms"
29     }
30     ]
31     ],
32     "flatcustomercharge": 0.0,
33     "flatcustomerchargeunits": "$/day",
34     "name": "Schedule G-NR1",
35     "thermspermonthmax": 20800,
36     "thermspermonthmin": 200,
37     "sector": "Commercial",
38     "source": "https://www.pge.com/tariffs/GRP0120.pdf",
39     "startdate": 19800101,
40     "enddate": 1961878000,
41     "utility": "Pacific Gas & Electric Co",
42     "category": "Small Commercial"
43     },
44     {
45         "country": "USA",
46         "aducustomerchargeunits": "$/day",
47         "aducustomercharges": [
48         {
49             "adumin": 0,
50             "adumax": 5.0,
51             "rate": 0.0,
52             "unit": "Therms"
53         }
54         ],
55     }
56     ],
57     ],
58     ],
59     ],
60     ],
61     ],
62     ],
63     ],
64     ],
65     ],
66     ],
67     ],
68     ],
69     ],
70     ],
71     ],
72     ],
73     ],
74     ],
75     ],
76     ],
77     ],
78     ],
79     ],
80     ],
81     ],
82     ],
83     ],
84     ],
85     ],
86     ],
87     ],
88     ],
89     ],
90     ],
91     ],
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151    ],
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163    ],
164    ],
165    ],
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167    ],
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171    ],
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173    ],
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175    ],
176    ],
177    ],
178    ],
179    ],
180    ],
181    ],
182    ],
183    ],
184    ],
185    ],
186    ],
187    ],
188    ],
189    ],
190    ],
191    ],
192    ],
193    ],
194    ],
195    ],
196    ],
197    ],
198    ],
199    ],
200    ],
201    ],
202    ],
```

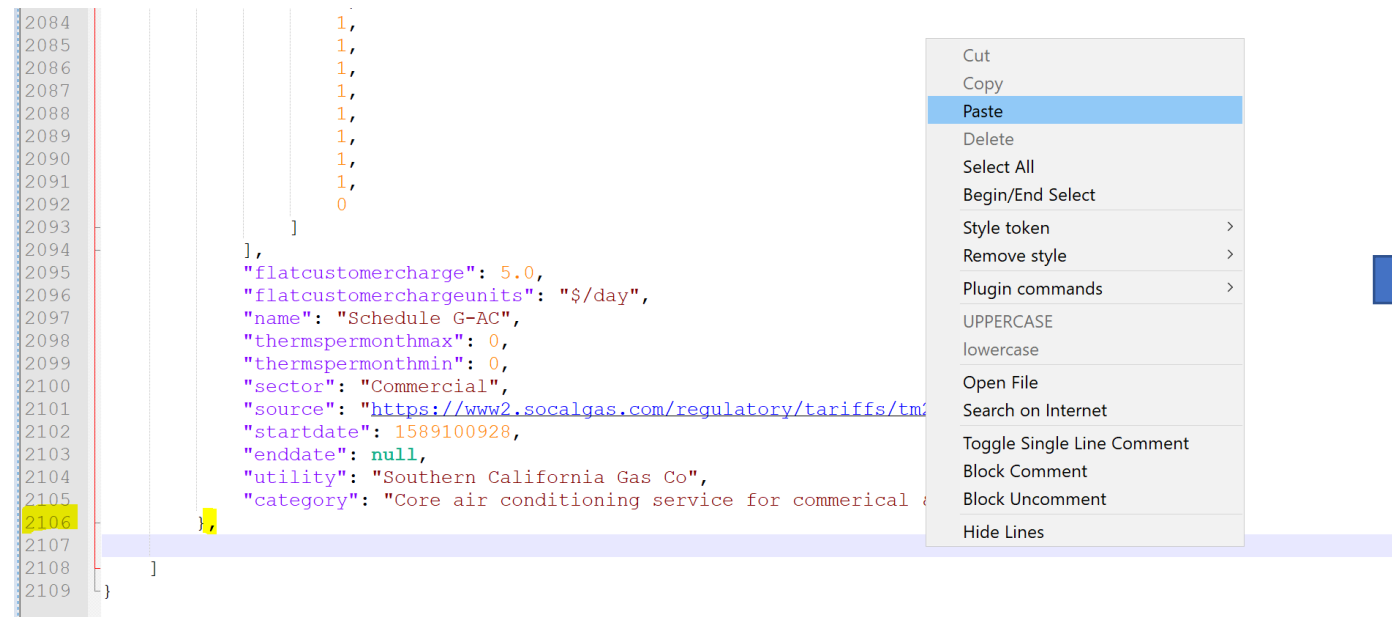
- Cut
- Copy
- Paste
- Delete
- Select All
- Begin/End Select
- Style token >
- Remove style >
- Plugin commands >
- UPPERCASE
- lowercase
- Open File
- Search on Internet
- Toggle Single Line Comment
- Block Comment
- Block Uncomment
- Hide Lines

Editing Json: Making a copy of existing tariff script

b) Add a comma after parenthesis in row 2106 (highlighted in yellow below)

c) Paste the copied script in row 2107

```
2084      1,
2085      1,
2086      1,
2087      1,
2088      1,
2089      1,
2090      1,
2091      1,
2092      0
2093    ]
2094  ],
2095  "flatcustomercharge": 5.0,
2096  "flatcustomerchargeunits": "$/day",
2097  "name": "Schedule G-AC",
2098  "thermspermonthmax": 0,
2099  "thermspermonthmin": 0,
2100  "sector": "Commercial",
2101  "source": "https://www2.socalgas.com/regulatory/tariffs/tm2/pdf/G-AC.pdf",
2102  "startdate": 1589100928,
2103  "enddate": null,
2104  "utility": "Southern California Gas Co",
2105  "category": "Core air conditioning service for commercial & industrial",
2106  },
2107  {
2108  "country": "USA",
2109  "aducustomerchargeunits": "$/day",
2110  "aducustomercharges": [
2111  [
2112  {
2113    "adumin": 0,
2114    "adumax": 5.0,
2115    "rate": 0,
2116    "unit": "Therms"
2117  }
2118  ],
2119  [
2120  {
2121    "adumin": 5.0,
2122    "adumax": 16.0,
2123    "rate": 0,
2124    "unit": "Therms"
2125  }
2126  ],
2127  [
2128  {
2129    "adumin": 16.0,
2130    "adumax": 41.0,
2131    "rate": 0,
2132    "unit": "Therms"
2133  }
2134  ]
2135  ],
2136  ]
2137  }
```



```
2098      "thermspermonthmax": 0,
2099      "thermspermonthmin": 0,
2100      "sector": "Commercial",
2101      "source": "https://www2.socalgas.com/regulatory/tariffs/tm2/pdf/G-AC.pdf",
2102      "startdate": 1589100928,
2103      "enddate": null,
2104      "utility": "Southern California Gas Co",
2105      "category": "Core air conditioning service for commercial & industrial"
2106    },
2107    {
2108      "country": "USA",
2109      "aducustomerchargeunits": "$/day",
2110      "aducustomercharges": [
2111        [
2112          {
2113            "adumin": 0,
2114            "adumax": 5.0,
2115            "rate": 0,
2116            "unit": "Therms"
2117          }
2118        ],
2119        [
2120          {
2121            "adumin": 5.0,
2122            "adumax": 16.0,
2123            "rate": 0,
2124            "unit": "Therms"
2125          }
2126        ],
2127        [
2128          {
2129            "adumin": 16.0,
2130            "adumax": 41.0,
2131            "rate": 0,
2132            "unit": "Therms"
2133          }
2134        ]
2135      ],
2136    ]
2137  }
```



Editing Json: editing newly copied script (ADU + Description)

```

2103 "enddate": null,
2104 "utility": "Southern California Gas Co",
2105 "category": "Core air conditioning service for commerical & industrial"
2106 },
2107 {
2108 "country": "USA",
2109 "aducustomerchargeunits": "$/day",
2110 "aducustomercharges": [
2111 [
2112 {
2113 "adumin": 0,
2114 "adumax": 5.0,
2115 "rate": 0,
2116 "unit": "Therms"
2117 },
2118 ],
2119 [
2120 {
2121 "adumin": 5.0,
2122 "adumax": 16.0,
2123 "rate": 0,
2124 "unit": "Therms"
2125 },
2126 ],
2127 [
2128 {
2129 "adumin": 16.0,
2130 "adumax": 41.0,
2131 "rate": 0,
2132 "unit": "Therms"
2133 },
2134 ],
2135 [
2136 {
2137 "adumin": 41.0,
2138 "adumax": 123.0,
2139 "rate": 0,
2140 "unit": "Therms"
2141 },
2142 ],
2143 [
2144 {
2145 "adumin": 123.0,
2146 "adumax": 99999999.0,
2147 "rate": 0,
2148 "unit": "Therms"
2149 },
2150 ],
2151 ],
2152 "description": "Custom Rates. ABC Utility, range 0-1000 therms",
2153 "procurementcharges": [
2154 [
2155 {
2156 "season": "summer",
2157 "procuremin": 0.0,
2158 "procuremax": 1000.0,
2159 "rate": 0.42,

```

Edit gas rates

Name: Schedule Example

Description: Custom Rates. ABC Utility, range 0-1000 therms

Daily			
Rate (\$/therm)	ADU Min	ADU Max	Rate (\$/day)
0.0	0	5.0	0
	5.0	16.0	0
	16.0	41.0	0
	41.0	123.0	0
	123.0	99999999.0	0

Procurement			
Season	Min	Max	Rate (\$/therm)
Summer	0.0	1000.0	0.42
Summer	1000.0	99999999.0	0.42
Winter	0.0	1000.0	0.42
Winter	1000.0	99999999.0	0.42

Transportation			
Season	Min	Max	Rate (\$/therm)
Summer	0.0	1000.0	0.7
Summer	1000.0	99999999.0	0.42
Winter	0.0	1000.0	0.82
Winter	1000.0	99999999.0	0.49

GPPS			
Season	Min	Max	Rate (\$/therm)
Summer	0.0	1000.0	0.0
Summer	1000.0	99999999.0	0.0
Winter	0.0	1000.0	0.0
Winter	1000.0	99999999.0	0.0

Buttons: Overwrite, Save new, Cancel

Average Daily Usage editing (**common for PGE territory**)
 User can edit the "adumin" "adumax"
 Set rates = 0 if not applicable

User editable Description

Editing Json: editing newly copied script (editing Procurement rate)

```
2148     "unit": "Therms"
2149   }
2150 ]
2151 ],
2152 "description": "Core Commercial Gas Rate. Based on customer's highest Average Daily Usage (ADU) determined from among the billing periods occurring within the last twelve
2153 "procurementcharges": [
2154 [
2155 {
2156   "season": "summer",
2157   "procuremin": 0.0,
2158   "procuremax": 1000.0,
2159   "rate": 0.42,
2160   "unit": "Therms"
2161 }
2162 ],
2163 [
2164 {
2165   "season": "summer",
2166   "procuremin": 1000.0,
2167   "procuremax": 99999999.0,
2168   "rate": 0.42,
2169   "unit": "Therms"
2170 }
2171 ],
2172 [
2173 {
2174   "season": "winter",
2175   "procuremin": 0.0,
2176   "procuremax": 1000.0,
2177   "rate": 0.42,
2178   "unit": "Therms"
2179 }
2180 ],
2181 [
2182 {
2183   "season": "winter",
2184   "procuremin": 1000.0,
2185   "procuremax": 99999999.0,
2186   "rate": 0.42,
2187   "unit": "Therms"
2188 }
2189 ]
2190 ],
2191 "transportationcharges": [
2192 [
2193 {
2194   "season": "summer",
2195   "transportationmin": 0.0,
2196   "transportationmax": 1000.0
```

Editing Procurement Rate **summer** and **winter**
User can edit the range that is grayed out in the UI
Default for PGE is 4000 therms, note in this example I have changed it to **1000**

The screenshot shows the 'Edit gas rates' application window. It has a 'Name' field with 'Schedule Example' and a 'Description' field with 'Custom Rates. ABC Utility, range 0-1000 therms'. Below these are several tables. The 'Procurement' table is highlighted with a blue box and contains the following data:

Season	Min	Max	Rate (\$/therm)
Summer	0.0	1000.0	0.42
Summer	1000.0	99999999.0	0.42
Winter	0.0	1000.0	0.42
Winter	1000.0	99999999.0	0.42

Other tables include 'Daily', 'ADU', 'Transportation', and 'GPPS', each with columns for Season, Min, Max, and Rate (\$/therm).

Editing Json: editing newly copied script (editing Transportation rate)

```
2186     "rate": 0.42,  
2187     "unit": "Therms"  
2188   }  
2189 ],  
2190 ],  
2191 "transportationcharges": [  
2192   [  
2193     {  
2194       "season": "summer",  
2195       "transportationmin": 0.0,  
2196       "transportationmax": 1000.0,  
2197       "rate": 0.70,  
2198       "unit": "Therms"  
2199     }  
2200   ],  
2201   [  
2202     {  
2203       "season": "summer",  
2204       "transportationmin": 1000.0,  
2205       "transportationmax": 9999999.0,  
2206       "rate": 0.42,  
2207       "unit": "Therms"  
2208     }  
2209   ],  
2210   [  
2211     {  
2212       "season": "winter",  
2213       "transportationmin": 0.0,  
2214       "transportationmax": 1000.0,  
2215       "rate": 0.82,  
2216       "unit": "Therms"  
2217     }  
2218   ],  
2219   [  
2220     {  
2221       "season": "winter",  
2222       "transportationmin": 1000.0,  
2223       "transportationmax": 9999999.0,  
2224       "rate": 0.49,  
2225       "unit": "Therms"  
2226     }  
2227   ]  
2228 ],  
2229 "schedulegpppscharges": [  
2230   [  
2231     {  
2232       "season": "summer",  
2233       "schedulegpppsmin": 0.0,  
2234       "schedulegpppsmax": 1000.0,  
2235       "rate": 0.0,  
2236       "unit": "Therms"
```

Editing Transportation Rate **summer** and **winter**
User can edit the range that is grayed out in the UI
Default for PGE is 4000 therms, note in this example I
have changed it to **1000**

Transportation			
Season	Min	Max	Rate (\$/therm)
Summer	0.0	1000.0	0.7
Summer	1000.0	9999999.0	0.42
Winter	0.0	1000.0	0.82
Winter	1000.0	9999999.0	0.49

Editing Json: editing newly copied script (Season and utility info)

```
2262     "rate": 0.0,  
2263     "unit": "Therms"  
2264   }  
2265 ],  
2266 ],  
2267 "seasonchedule": [  
2268   [  
2269     0,  
2270     0,  
2271     0,  
2272     0,  
2273     1,  
2274     1,  
2275     1,  
2276     1,  
2277     1,  
2278     1,  
2279     0,  
2280     0  
2281   ],  
2282 ],  
2283 "flatcustomercharge": 0.0,  
2284 "flatcustomerchargeunits": "$/day",  
2285 "name": "Schedule Example",  
2286 "thermspermonthmax": 20800,  
2287 "thermspermonthmin": 200,  
2288 "sector": "Commercial",  
2289 "source": "https://www.pge.com/tariffs/GRF0120.pdf",  
2290 "startdate": 1556694000,  
2291 "enddate": 1561878000,  
2292 "utility": "ABC Gas Utility",  
2293 "category": "medium"  
2294 }  
2295 ]  
2296 }
```

Selecting the summer and winter month
Summer month = 1
Winter month = 0

Flat Rate

Utility information

ms Edit gas rates

Name: Schedule Example

Description: Custom Rates. ABC Utility, range 0-1000 therms

Daily	ADU	Procurement	Transportation	GPPS
Rate (\$/therm)	Min Max Rate (\$/day)	Season Min Max Rate (\$/therm)	Season Min Max Rate (\$/therm)	Season Min Max Rate (\$/therm)
0.0	0 5.0 16.0 41.0 123.0	Summer 0.0 1000.0 0.42 Summer 1000.0 99999999.0 0.42 Winter 0.0 1000.0 0.42 Winter 1000.0 99999999.0 0.42	Summer 0.0 1000.0 0.7 Summer 1000.0 99999999.0 0.42 Winter 0.0 1000.0 0.82 Winter 1000.0 99999999.0 0.49	Summer 0.0 1000.0 0.0 Summer 1000.0 99999999.0 0.0 Winter 0.0 1000.0 0.0 Winter 1000.0 99999999.0 0.0

Overwrite Save new Cancel