Iran-FaraBourse

July 22, 2020

[1]:
```
import pandas as pd
import jdatetime
from datetime import date
from matplotlib import pyplot as plt
import matplotlib.image as mpimg
```

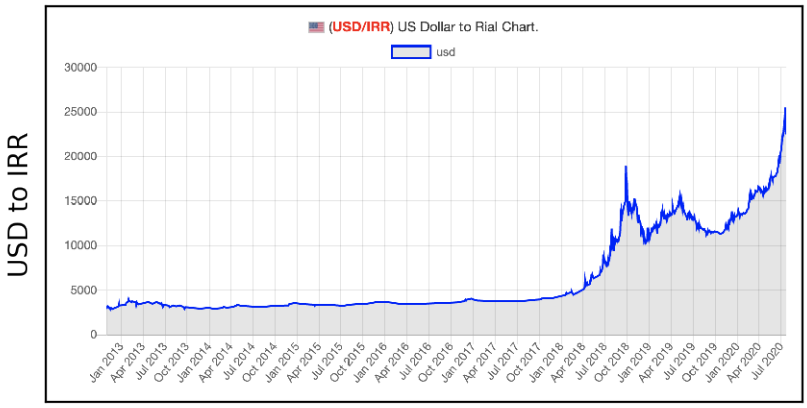
[3]:
```
def hejri_converter(num):
    gregorian_date = jdatetime.date(num//10000,(num%10000)//
 ↪100,(num%10000)%100).togregorian()
    return gregorian_date
```

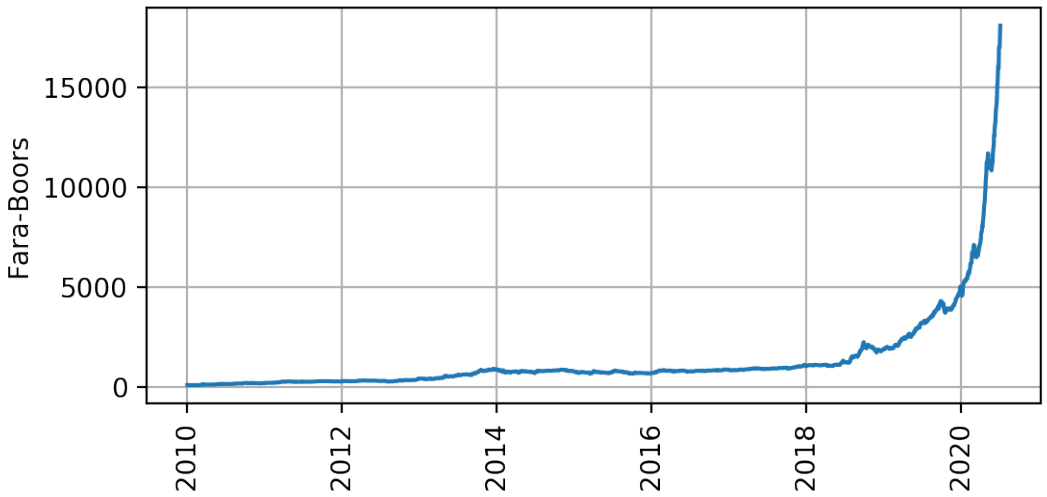
[4]:
```
fara = pd.read_csv("Faraboors-Shakhes-Kol.csv",  sep='\t')
dates = [hejri_converter(int(y)) for y in fara['Date'].values]
values = fara['Value'].values
value_dict = dict(zip(dates, values))
```

[5]:
```
def data_select_dates(date1, date2):
    selected_dates  = [z for z in dates if date1 <= z < date2]
    selected_values = [value_dict[w] for w in selected_dates]
    return selected_dates, selected_values
```

[6]:
```
def plot_usd_boors(date1, date2, name):
    dates1, vals1 = data_select_dates(date1, date2)
    my_dpi = 200
    fig = plt.figure(figsize=(6, 6), dpi=my_dpi)
    ax1 = fig.add_subplot(2, 1, 1)
    ax1.set_ylabel('USD to IRR')
    ax1.set_xticks([])
    ax1.set_yticks([])
    mpimg_img = mpimg.imread(name)
    ax1.imshow(mpimg_img)
    ax2 = fig.add_subplot(2, 1, 2)
    ax2.set_ylabel('Fara-Boors')
    plt.xticks(rotation='vertical')
    plt.grid()
    plt.plot(dates1, vals1)
```

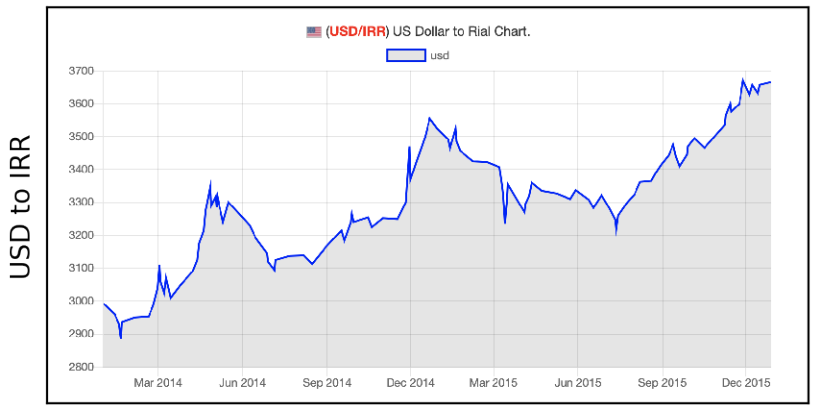
[8]:
```
date1 = date(2010, 1, 1)
date2 = date(2020, 7, 8)
name = 'USD-Price/USD-IRR-13-20.png'
plot_usd_boors(date1, date2, name)
```

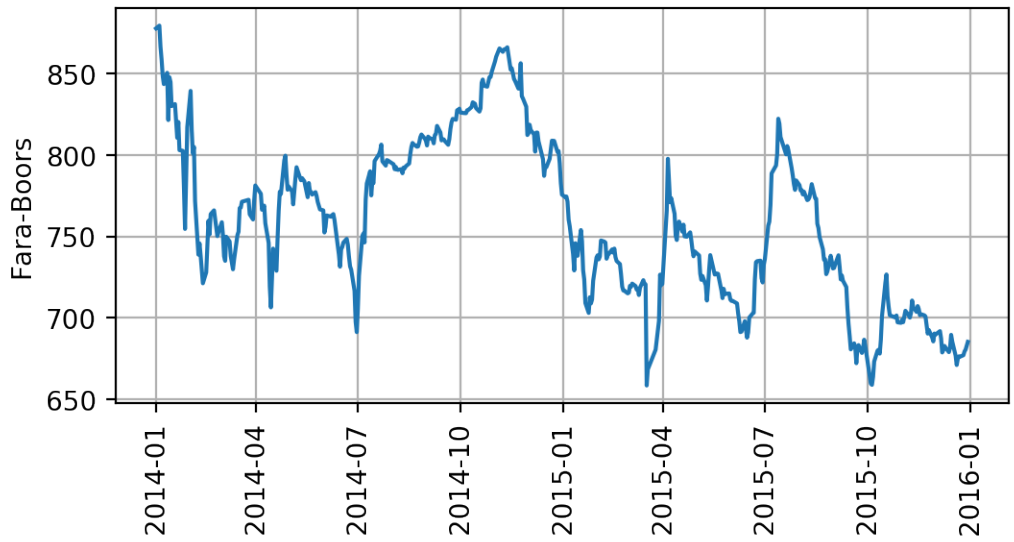




[9]:
```
date1 = date(2012, 1, 1)
date2 = date(2014, 1, 1)
name = 'USD-Price/USD-IRR-12-14.png'
plot_usd_boors(date1, date2, name)
```

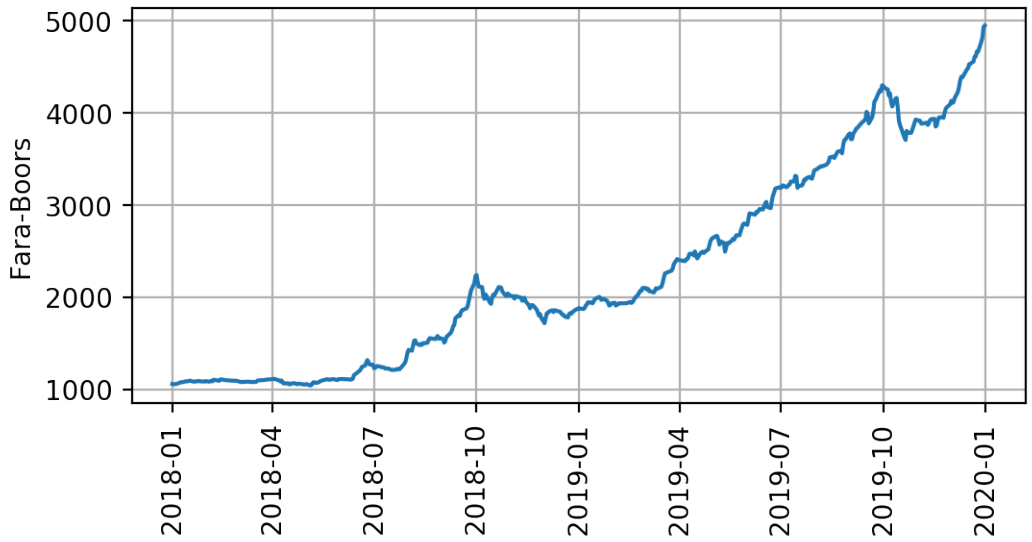
[10]:
```
date1 = date(2014, 1, 1)
date2 = date(2016, 1, 1)
name = 'USD-Price/USD-IRR-14-16.png'
plot_usd_boors(date1, date2, name)
```



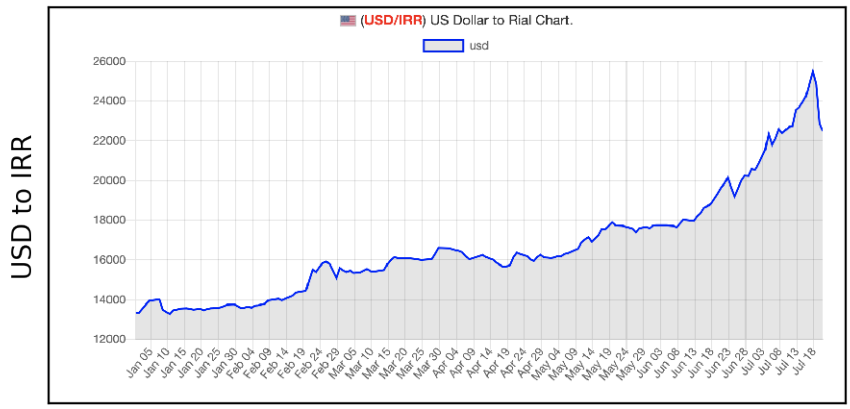


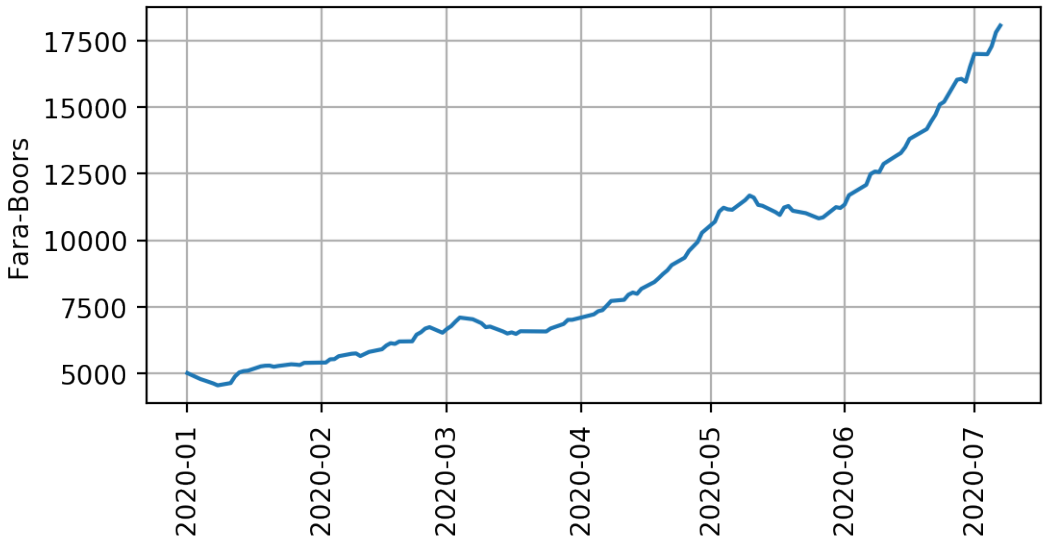
[11]:
```
date1 = date(2016, 1, 1)
date2 = date(2018, 1, 1)
name = 'USD-Price/USD-IRR-16-18.png'
plot_usd_boors(date1, date2, name)
```

[12]:
```
date1 = date(2018, 1, 1)
date2 = date(2020, 1, 1)
name = 'USD-Price/USD-IRR-18-20.png'
plot_usd_boors(date1, date2, name)
```



[13]:
```
date1 = date(2020, 1, 1)
date2 = date(2020, 7, 8)
name = 'USD-Price/USD-IRR-20-20.png'
plot_usd_boors(date1, date2, name)
```

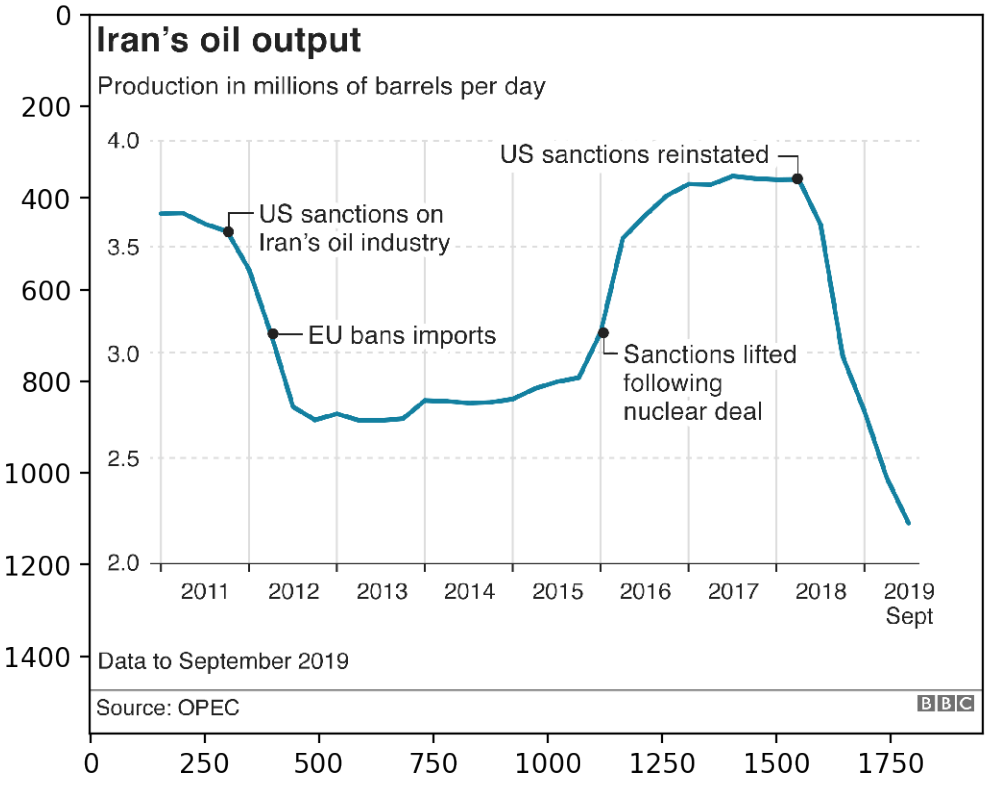




[20]:
```
my_dpi = 200
fig = plt.figure(figsize=(6, 6), dpi=my_dpi)

ax1 = fig.add_subplot(1, 1, 1)
mpimg_img = mpimg.imread("Iran-Sanctions-Timeline.png")
ax1.imshow(mpimg_img)
```

[20]:
```
<matplotlib.image.AxesImage at 0x1178c8210>
```


Iran's oil output
Production in millions of barrels per day
US sanctions reinstated
US sanctions on Iran's oil industry
EU bans imports
Sanctions lifted following nuclear deal
2011
2012
2013
2014
2015
2016
2017
2018
2019 Sept
Data to September 2019
Source: OPEC
BBC

[ ]: