```
def retrieve_time_series(api, series_ID):
    """
    Return the time series dataframe, based on API and unique Series ID
    api: API that we're connected to
    series_ID: string. Name of the series that we want to pull from the EIA API
    """
    #Retrieve Data By Series ID
    series_search = api.data_by_series(series=series_ID)
    ##Create a pandas dataframe from the retrieved time series
    df = pd.DataFrame(series_search)
    return df


###Execute in the main block
#Create EIA API using your specific API key
api_key = "YOR API KEY HERE"
api = eia.API(api_key)


#Pull the electricity price data
series_ID='ELEC.PRICE.TX-ALL.M'
electricity_df=retrieve_time_series(api, series_ID)
electricity_df.reset_index(level=0, inplace=True)
#Rename the columns for easer analysis
electricity_df.rename(columns={'index':'Date',
```

```
    electricity_df.columns[1]:'Electricity_Price'},

    inplace=True)
```

```
                Date  Electricity_Price
Date
2001-01-01 2001-01-01               6.90
2001-02-01 2001-02-01               6.91
2001-03-01 2001-03-01               7.02
2001-04-01 2001-04-01               7.04
2001-05-01 2001-05-01               7.34
2001-06-01 2001-06-01               7.90
2001-07-01 2001-07-01               7.98
2001-08-01 2001-08-01               8.00
2001-09-01 2001-09-01               7.65
2001-10-01 2001-10-01               7.38
2001-11-01 2001-11-01               6.92
2001-12-01 2001-12-01               6.93
2002-01-01 2002-01-01               6.73
2002-02-01 2002-02-01               7.06
2002-03-01 2002-03-01               6.64
2002-04-01 2002-04-01               6.53
2002-05-01 2002-05-01               6.32
2002-06-01 2002-06-01               6.91
```