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# Introduction

The document discusses the SEC (Saudi Electric Company) invoice (energy consumption bill) parsing application. KAUST Facilities and Management team receives energy consumption bill through SEC. The energy consumption bill data is different for different types like industrial, commercial, charity, medical, residential, etc. usage. The energy consumption bill is more than 500 pages of PDF (Portable Document Format) document and mostly the data in Arabic language.

The document contains energy consumption data fields like subscription number, meter readings (to and from), meter reading dates (to and from), invoice number, invoice date, cost, value added tax, total cost, etc., for each type inside KAUST like villas, town houses, academic buildings, and other facilities. In the case of industry, the bill contains active power consumption, re-active power consumption etc. fields.

Storing energy consumption data to a digital form is very time consuming, error prone by entering the data values manually. This process is repetitive on every month. Once the data is stored in the digital form, different reports can be generated and viewed.

Develop an application that runs either in UI (User Interface) or command line mode. The application is aimed to develop a software package to digitize the energy consumption bills. The output will be a CSV (Comma Separated Value) file. The CSV file data contains the different energy consumption field’s data in English numerals.

The developed application will be packaged along with the necessary third party executables (in this case pdftotxt.exe (from XPDF)), DLLs (Dynamic Link Libraries), and system files. The application runs on the desktop that has Windows 7 or Windows 8 Operating Systems.

# Installation

The application is developed in QT and C++. The tool is internally uses pdftotxt.exe. The application is bundled in a zip file contains following sub folders:

* bin, contains the binary (executable) files and other related executables (QT)
* tools, contains pdftotxt.exe.
* temp, a directory used for temporary purpose.

The necessary application folder is stored at github and can be downloaded. Download the application folder from the github to the desired directory in a Windows computer, say C:\KAUST\sec.

Using Cmd (command prompt application) prompt user can go to C:\KAUST\sec\application\bin\ and then execute the [arabictranslate.exe](https://github.com/premchedella/saudielectric/blob/master/application/bin/arabictranslate.exe) application along with command line parameters. The command line parameters will be explained in the later section.

There is no need user to download any other files. All the required libraries or dlls or executables are bundled and placed in the application folder.

# SEC Invoices

KAUST receives SEC invoices in the form of .pdf file. The SEC invoice file (.pdf) has mainly two kinds of invoices. One invoice has many (more) fields and other invoice has less number of fields. The many fields invoice is called **bigger invoice** and less number of fields is called **smaller invoice**.

Most of the times all bigger invoices are in one file, all smaller invoices in another file. Sometimes the smaller and bigger invoices are available in the same file.

The earlier executable takes type (KAU 1 or 2) an input parameter which says whether the input file is bigger or smaller invoices file. Based on this input, the parser parses and generates the data accordingly. Whenever the input file contains both smaller and bigger invoices, the executable is not able to generate all the invoices since there is a mismatch for the input parameter, either it generates all the bigger invoices with **Complete** and all the smaller invoices with **Partial** data or it generates all the smaller invoices with **Complete** and all the bigger invoices with **Partial** data. To solve this problem, a new kind of parser is required.

Each invoice start with **الاسم** phrase. Whenever the line starts with this phrase then it is considered a block or invoice.

To differentiate between smaller and bigger invoices, **: طاقة غير فاعلة)** phrased to used. If the invoice contains this phrase then invoice is called bigger invoice otherwise the invoice is called smaller invoice. In the case of bigger invoices, most of the cases the differentiated phrase is available in the last 6th line. Whenever this phrase is found in the last 6 line then the corresponding invoice is called bigger invoice otherwise it is called smaller invoice.

# Execution

Generate the invoices data with following options:

## Option 1

Following is the command line instruction:

**arabictranslate.exe 7 2021 D:\KAUST\projects\tests\misc\saudi\_electric\jul\_2021\KAU2\_18\_Feeders\_Jul\_21.pdf**

Following are the parameters:

1. Invoice Month
2. Invoice Year
3. Invoice file (with .pdf)

The application generates output file(s) automatically in the same folder where the input .pdf file exists.

Assume that name of the input file is **KAU\_Main.pdf**. If the input invoice file contains only bigger invoices then it generates **KAU\_Main\_bigger.csv**. If the input invoice file contains only smaller invoices then it generates **KAU\_Main\_smaller.csv**. If the input invoice file contains both bigger and smaller invoices then it generates both **KAU\_Main\_bigger.csv** and **KAU\_Main\_smaller.csv** files.

Also, there is a need to generate the summary of the file with the file name **KAU\_Main\_summary.csv** irrespective of the invoices type, which means this file is always generated.

## Option 2

Following is the command line instruction:

**arabictranslate.exe 7 2021 D:\KAUST\projects\tests\misc\saudi\_electric\jul\_2021\KAU2\_18\_Feeders\_Jul\_21.pdf**

Following are the parameters:

1. Invoice Month
2. Invoice Year
3. Invoice file (with .pdf)

The application generates only one output file in the same folder where the input .pdf file exists.

Assume that name of the input file is **KAU\_Main.pdf**. The output file name is **KAU\_Main.xlsx.**  The first tab/worksheet in the .xlsx contains **summary** of the invoice file, the second tab/worksheet contains the **bigger invoices** data if bigger invoices present in the invoice pdf file, and the third tab/worksheet contains the **smaller invoices** data if smaller invoices present in the invoice pdf file.

Option 1 requires less changes in the parser and front end when compare to option 2.

# Summary

# Bigger Invoice Field Names

Following is the bigger invoice snippet from the KAU2\_18F\_Jun\_Jul\_inv\_2023.pdf file.

A white sheet with black lines and black text

Description automatically generated with medium confidence

AQ {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

AM {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

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AIH {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

AH {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

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AJ {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

AG {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

AF {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

AE {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

AD {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

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AA {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

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A – Account Number – 10089521822

B – Subscription Number – 22044000003777

C – Site Number – 4008579736

D – Address – 0001

E – Invoice Date – 13-Jul-23

F – Type – 02

G – Sub-Type – Industrial

H – Invoice Number – 280023279756

I – Reading To (Date) – 11-Jul-23

J – Reading From (Date) – 11-Jun-23

K – Multiplication Factor – 82800.0000

L – Circuit Breaker Capacity – 1250

M – Reading Days – 30

N – Meter Number – KFM2120560005306

O – Power Consumption – 1821600.0000

P – Current Reading – 121.0000

Q – Previous Reading – 99.0000

R – Reactive Power Consumption – 0.0000

S – Reactive Power Current Reading – 8.0000

T – Reactive Power Previous Reading – 5.0000

U – Taxable Amount – 327918.00

V – Active Power Consumption Cost – 327888.00

W – VAT – 49187.70

X – Meter Service – 0.00

Y – Total Cost – 377105.70

Z – Reactive Power Cost – 0.00

AA – Non - Taxable Amount – 0.00

AB – Other Fees – 0.00

AC – Settlement – 0.00

AD – Required Amount – 377105.70

AE – Total Reactive Power Consumption (UP) – 248400.0000

AF – Allowed Reactive Power Consumption – 598730.9566

AG – Power Factor – 0.99

AH – Total Active Power Consumption – 1821600.0000

AI – Active Power Multiplication Factor – 82800.0

AJ – Active Power Previous Reading – 99.0000

AK – Active Power Current Reading – 121.0000

AL – Active Power Circuit Breaker Capacity – 1250

AM – Total Reactive Power Consumption (Down) – 248400.0000

AN – Reactive Power Multiplication Factor – 82800.0

AO – Reactive Power Previous Reading – 5.0000

AP – Reactive Power Current Reading – 8.0000

AQ – Reactive Power Circuit Breaker Capacity – 1250

# Smaller Invoice Field Names

Following is the smaller invoice snippet from the KAU2\_18F\_Jun\_Jul\_inv\_2023.pdf file.

A close-up of a computer screen

Description automatically generated

AB {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

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AF{"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

AE {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0} {"batch":"scarlette\_chicago\_20221022","country":"USA","city":"Chicago","lat":41.8755616,"lon":-87.6244212,"time offset":0.0}

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A – Account Number – 10089528341

B – Subscription Number – 22044000003785

C – Site Number – 4008579760

D – Address – 0001

E – Invoice Date – 14-Jul-2023

F – Type – 09

G – Sub-Type – Industrial

H – Invoice Number – 215018916333

I – Reading To (Date) – 11-Jul-23

J – Reading From (Date) – 11-Jun-23

K – Multiplication Factor – 82800.0000

L – Circuit Breaker Capacity – 278

M – Reading Days – 30

N – Meter Number – KFM2120560005353

O – Power Consumption – 331200.0000

P – Current Reading – 22.0000

Q – Previous Reading – 18.0000

R – Taxable Amount – 59637.00

S – Active Power Consumption Cost – 59616.00

T – VAT – 8945.55

U – Meter Service – 21.00

V – Total Cost – 68582.55

W – Other Fees – 0.00

X – Settlement – 0.00

Y – Non - Taxable Amount – 0.00

Z – Required Amount – 68582.55

AA –Total Active Power Consumption – 1821600.0000

AB – Consumption Factor – 1.0000

AC – Active Power Multiplication Factor – 82800.0

AD – Active Power Previous Reading – 18.0000

AE – Active Power Current Reading – 22.0000

AF – Active Power Circuit Breaker Capacity – 278

AG – Total Meters Consumption – 0.0000

AH – Reactive Power Consumption – -1.0000

# Summary Field Names

Following is the summary or 1st page snippet from the KAU2\_18F\_Jun\_Jul\_inv\_2023.pdf file.

A white paper with black text

Description automatically generated

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A

A – VAT Number – 300000361310003

B – Invoice Number – 200022922169

C – Collective Account Number – 20000260048

D – Invoice Issue Date – 3-Aug-2023

E – VAT Account – 300127814200003

F – Reading To (Date) – 11-Jul-2023

G – Reading From (Date) – 12-Jun-2023

H – Account Number – 108969204

I – Taxable Amount – 2488787.14

J – Active Power Consumption Cost – 2441265.54

K – Active Power Consumption – 13544675.0000

L – VAT – 373318.09

M – Reactive Power Consumption Cost – 40006.60

N – Reactive Power Consumption – 800131.9200

O – Total Cost – 2862105.23

P – Meters Service Cost – 7515.00

Q – Non - Taxable Amount – 0.00

R – Other Fees – 0.00

S – Required Amount – 2862105.23

T – Settlements – 0.00