For office use only	Team Control Number	For office use only
T1 _____	**91397**	F1 _____
T2 _____		F2 _____
T3 _____	Problem Chosen	F3 _____
T4 _____	**C**	F4 _____

2018
MCM/ICM
Summary Sheet

Summary

abstract

Keywords: keyword1; keyword2

1 Introduction

2 Energy Profile

2.1 Overview

2.2 title

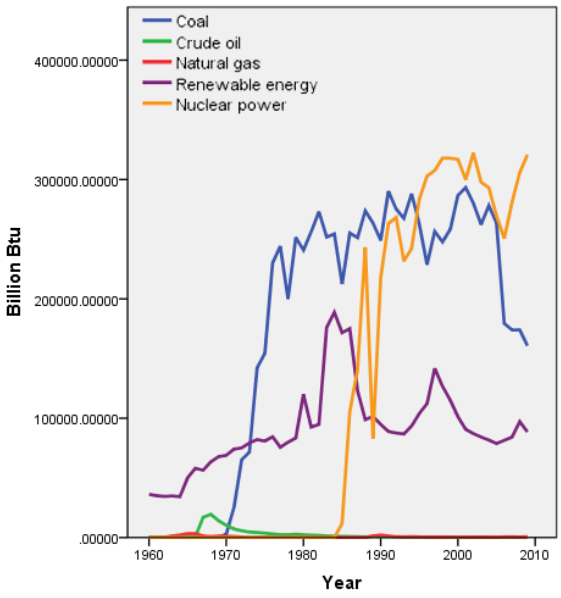

Figure 1: AZPRB

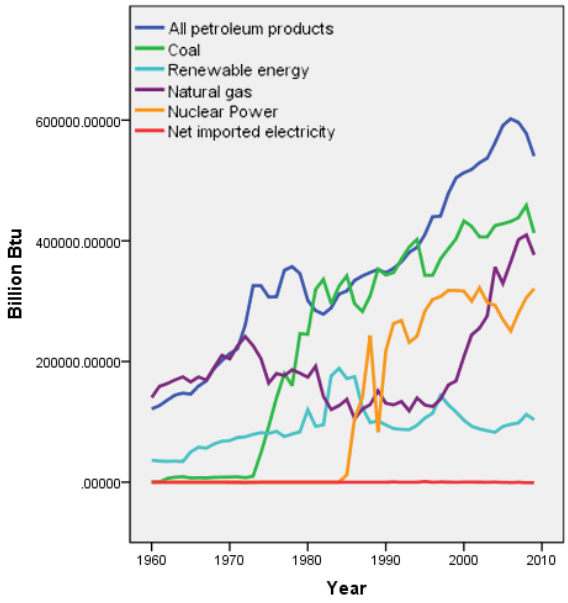

Figure 2: AZTCB

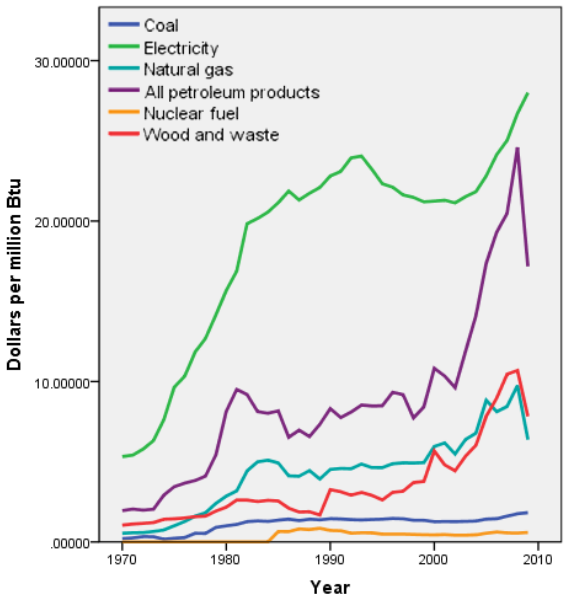

Figure 3: AZTCD

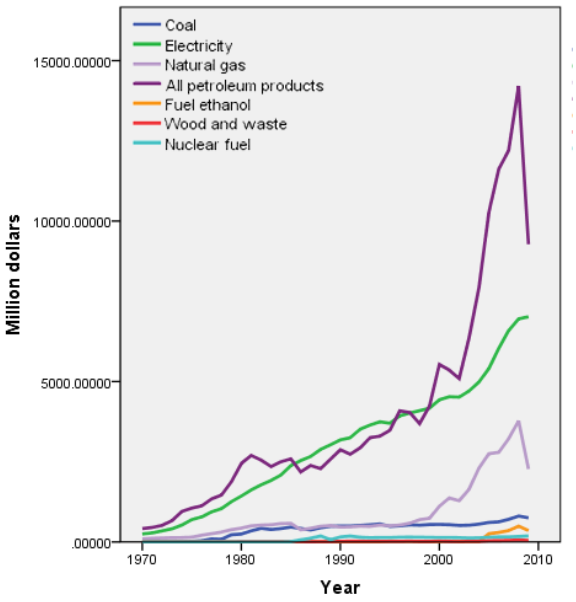

Figure 4: AZTCV

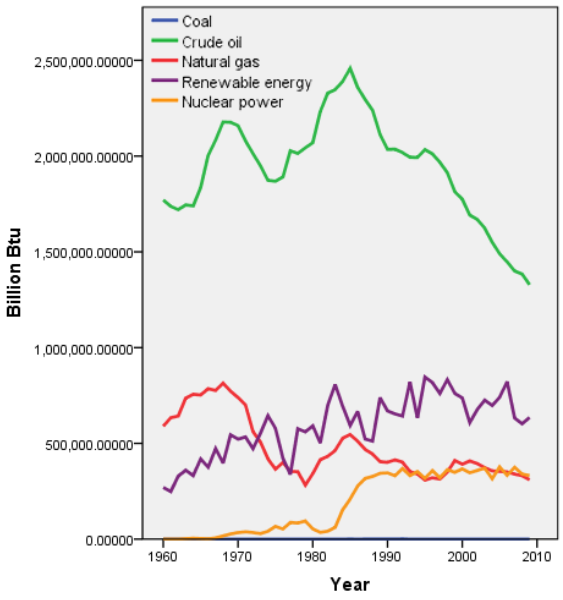

Figure 5: CAPRB

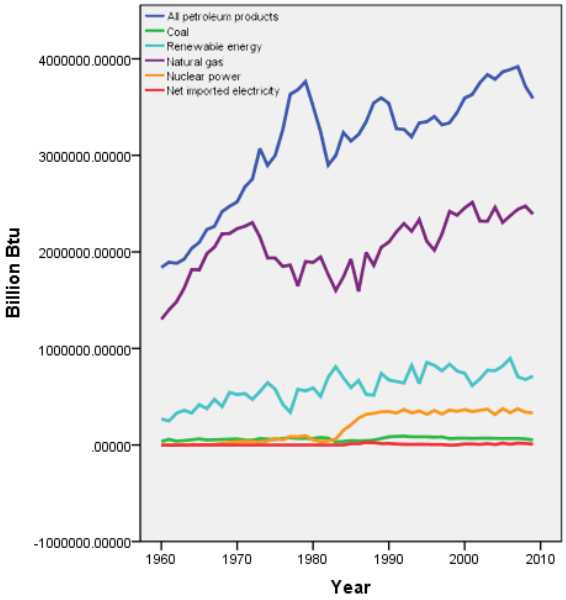

Figure 6: CATCB

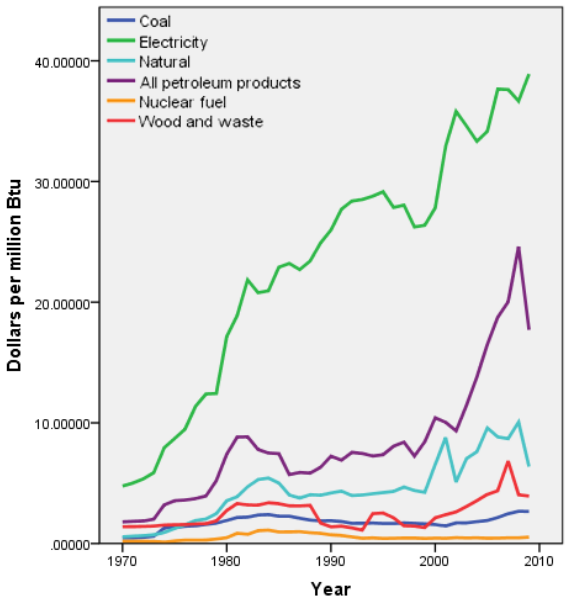

Figure 7: CATCD

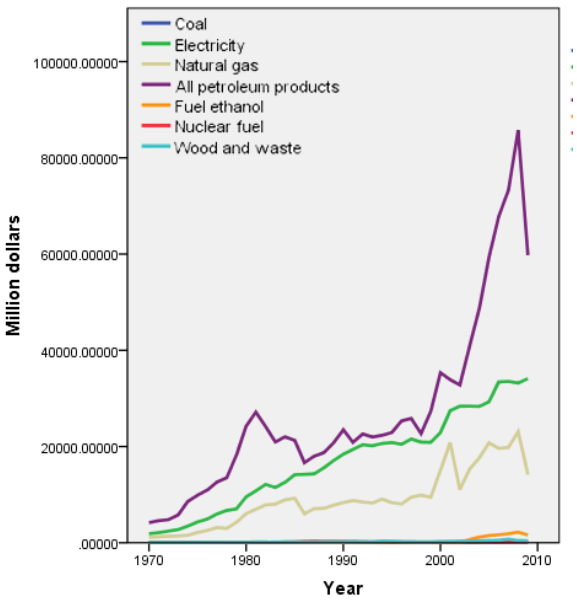

Figure 8: CATCV

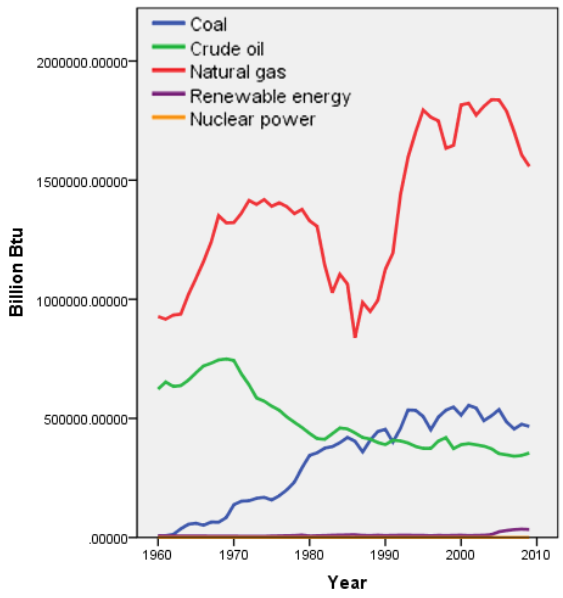

Figure 9: NMPRB

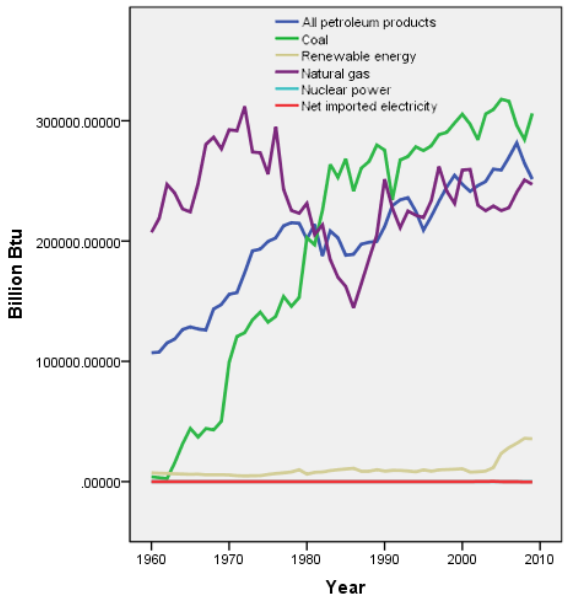

Figure 10: NMTCB

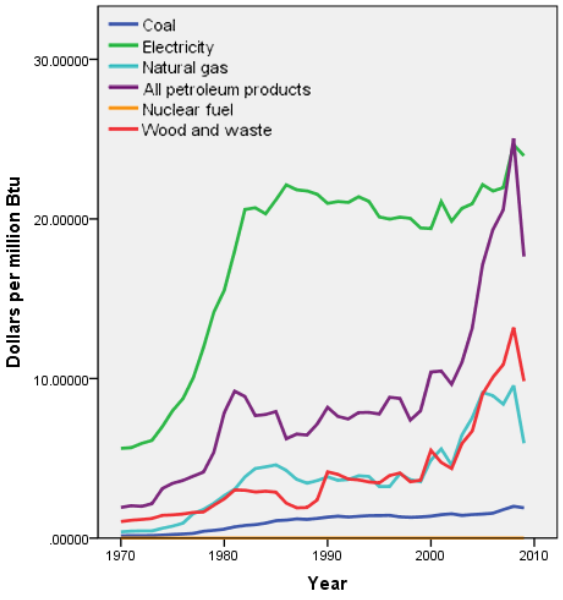

Figure 11: NMTCD

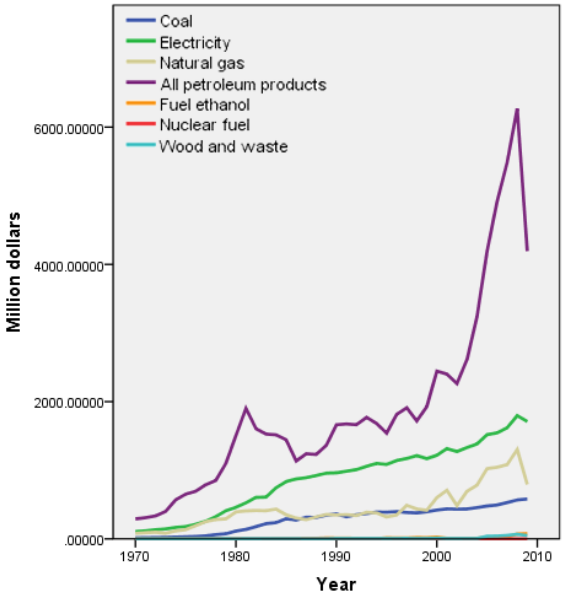

Figure 12: NMTCV

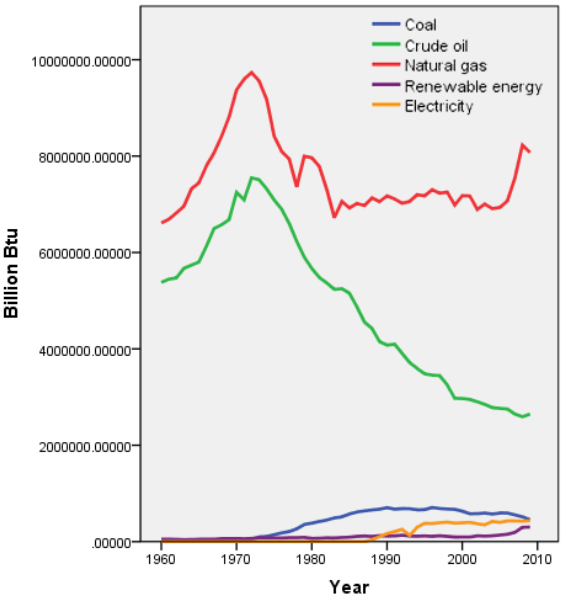

Figure 13: TXPRB

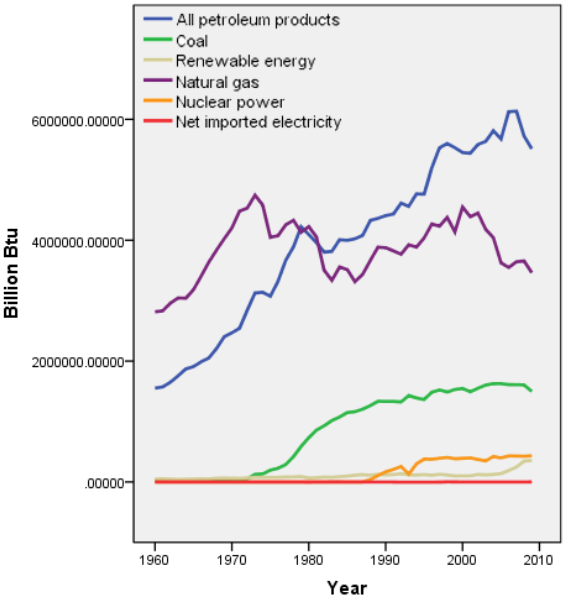

Figure 14: TXTCB

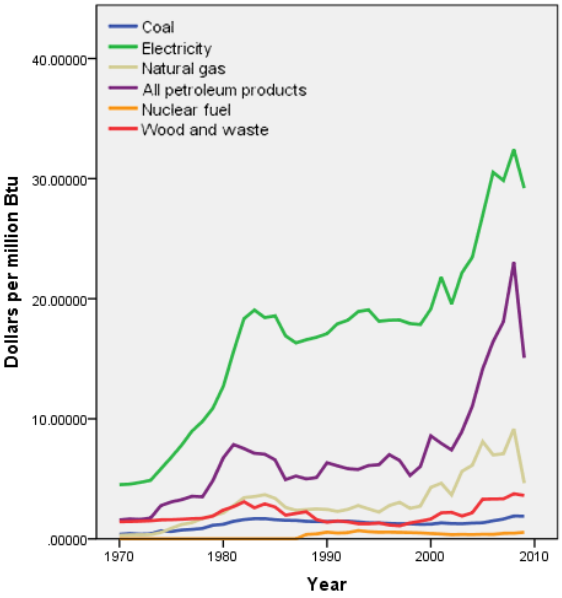

Figure 15: TXTCD

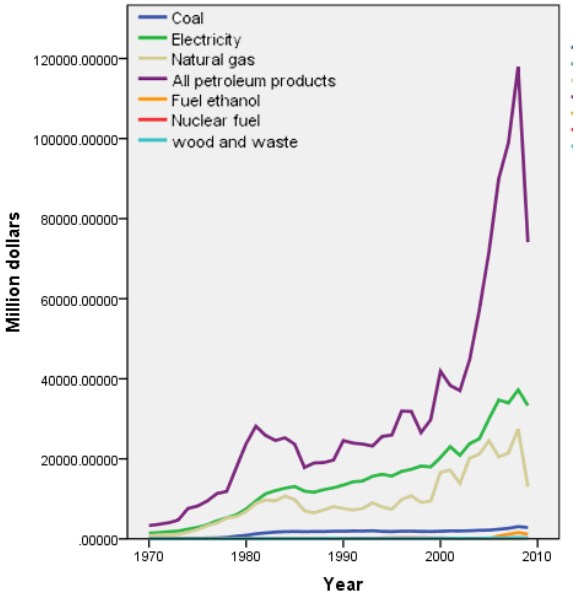

Figure 16: TXTCV

Appendices

Proof. x □

Lemma 1. *If* $f \in C_L^{1,1}(\mathbb{R}^n)$*, then* $\forall \boldsymbol{x}, \boldsymbol{y} \in \mathbb{R}^n$ *we have*

$$\left|f(\boldsymbol{y}) - f(\boldsymbol{x}) - \nabla f(\boldsymbol{x})^T(\boldsymbol{y} - \boldsymbol{x})\right| \leq \frac{L}{2}\|\boldsymbol{y} - \boldsymbol{x}\|^2. \tag{1}$$

Appendix A First appendix

Aliquam lectus. Vivamus leo. Quisque ornare tellus ullamcorper nulla. Mauris porttitor pharetra tortor. Sed fringilla justo sed mauris. Mauris tellus. Sed non leo. Nullam elementum, magna in cursus sodales, augue est scelerisque sapien, venenatis congue nulla arcu et pede. Ut suscipit enim vel sapien. Donec congue. Maecenas urna mi, suscipit in, placerat ut, vestibulum ut, massa. Fusce ultrices nulla et nisl.

Here are simulation programmes we used in our model as follow.

Input matlab source:

```
function [t,seat,aisle]=OI6Sim(n,target,seated)
pab=rand(1,n);
for i=1:n
    if pab(i)<0.4
       aisleTime(i)=0;
    else
        aisleTime(i)=trirnd(3.2,7.1,38.7);
    end
end
```

Appendix B Second appendix

some more text **Input C++ source:**

```
//============================================================================
// Name        : Sudoku.cpp
// Author      : wzlf11
// Version     : a.0
// Copyright   : Your copyright notice
// Description : Sudoku in C++.
//============================================================================

#include <iostream>
#include <cstdlib>
#include <ctime>

using namespace std;

int table[9][9];

int main() {
```

```
    for(int i = 0; i < 9; i++){
        table[0][i] = i + 1;
    }

    srand((unsigned int)time(NULL));

    shuffle((int *)&table[0], 9);

    while(!put_line(1))
    {
        shuffle((int *)&table[0], 9);
    }

    for(int x = 0; x < 9; x++){
        for(int y = 0; y < 9; y++){
            cout << table[x][y] << " ";
        }

        cout << endl;
    }

    return 0;
}
```