For office use only

T1 _____

T2 _____

T3 _____

T4 _____

Team Control Number

91397

Problem Chosen

C

2018
MCM/ICM
Summary Sheet

Summary

abstract

Keywords: keyword1; keyword2

Contents

1   Introduction

2   Energy Profile

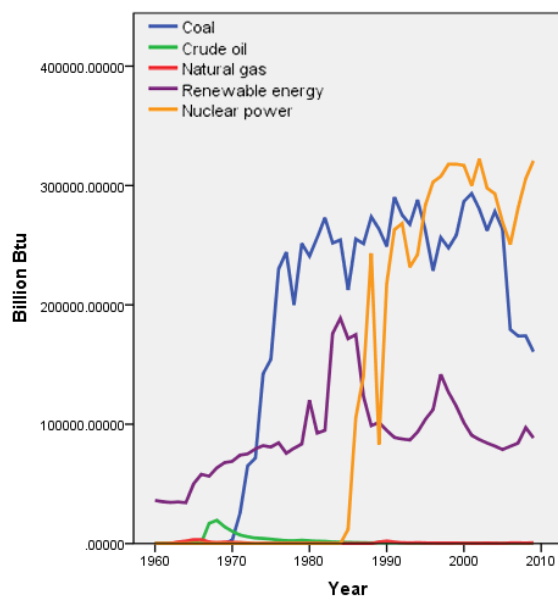## 2.1   Overview

2.2   title
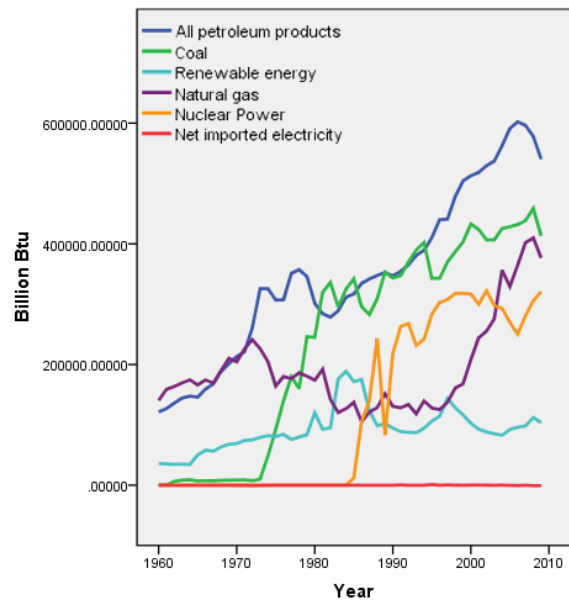
2.2.1   Arizona

Figure 1: AZPRB
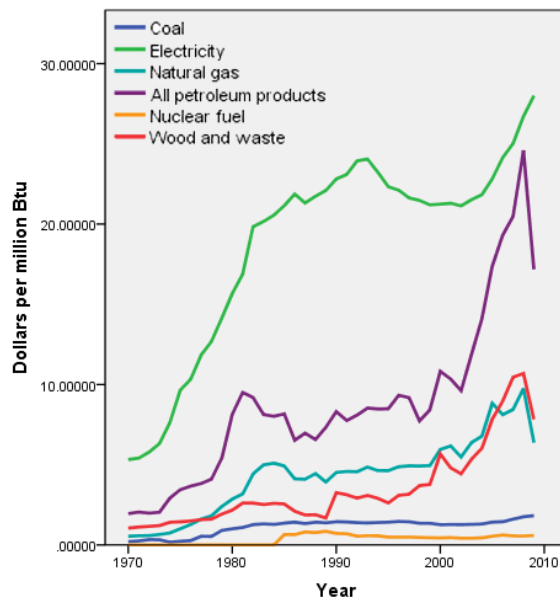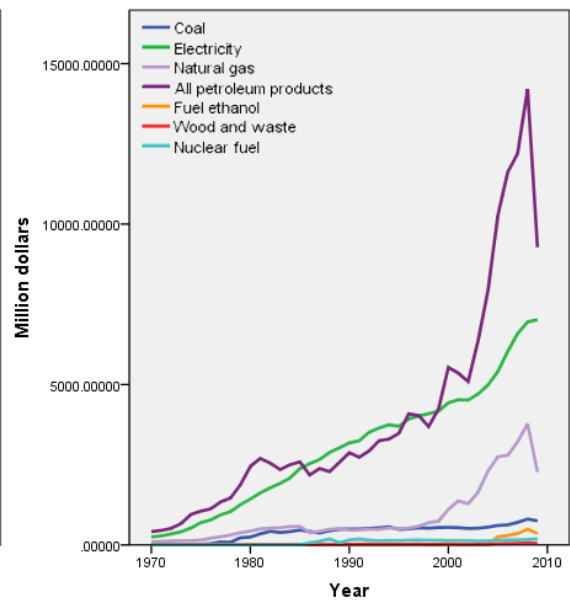

Figure 2: AZTCB

Figure 3: AZTCD

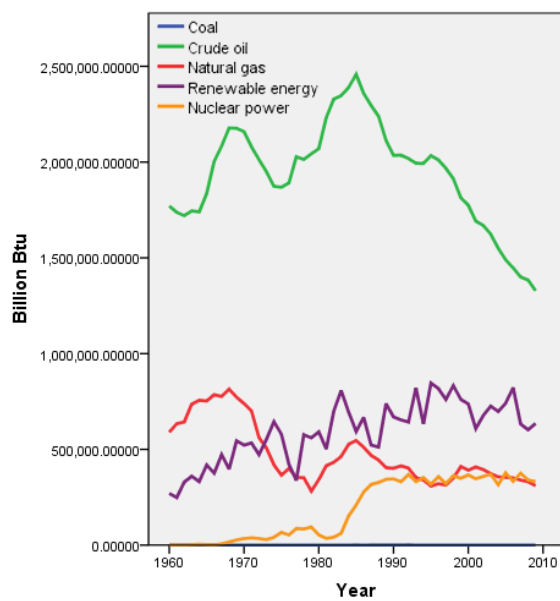

Figure 4: AZTCV

2.2.2 California
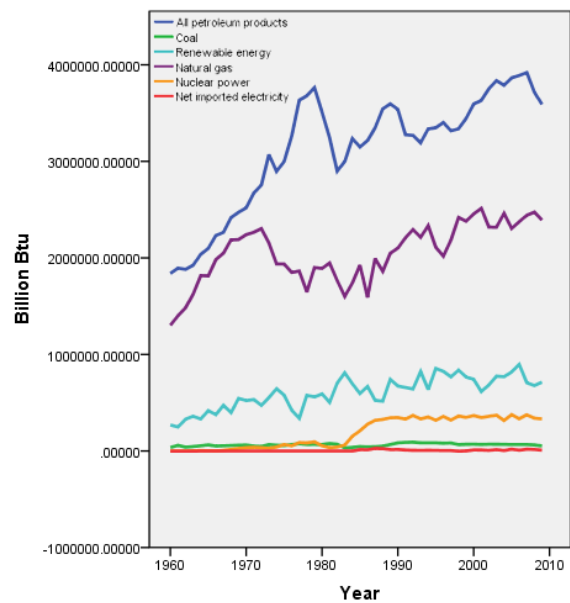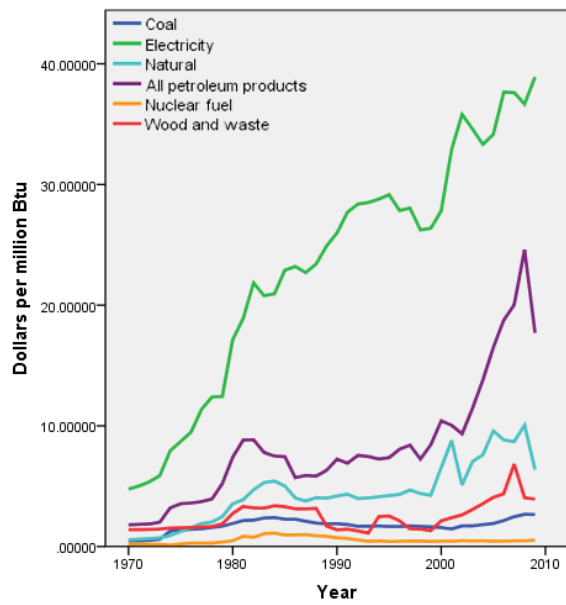

Figure 5: CAPRB

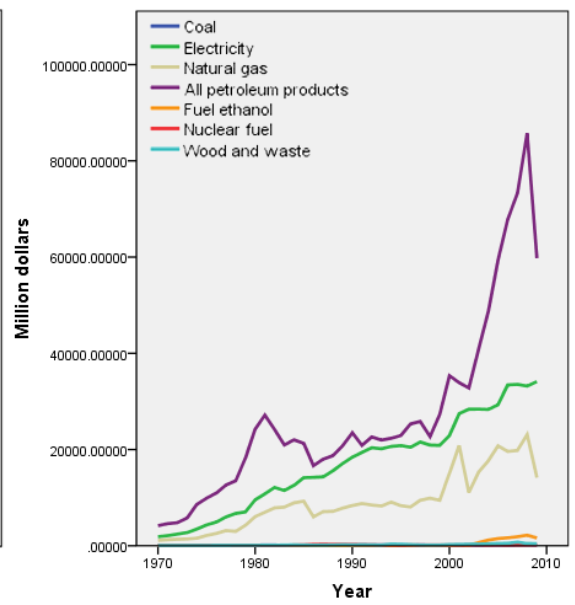

Figure 6: CATCB
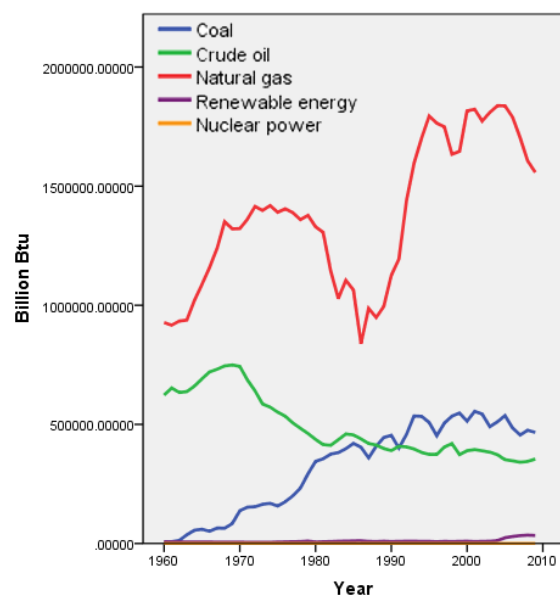
Figure 7: CATCD

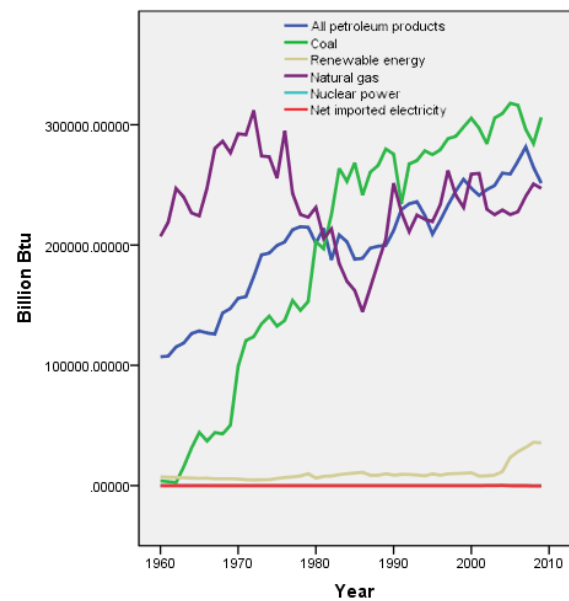Figure 8: CATCV

2.2.3 New Mexico
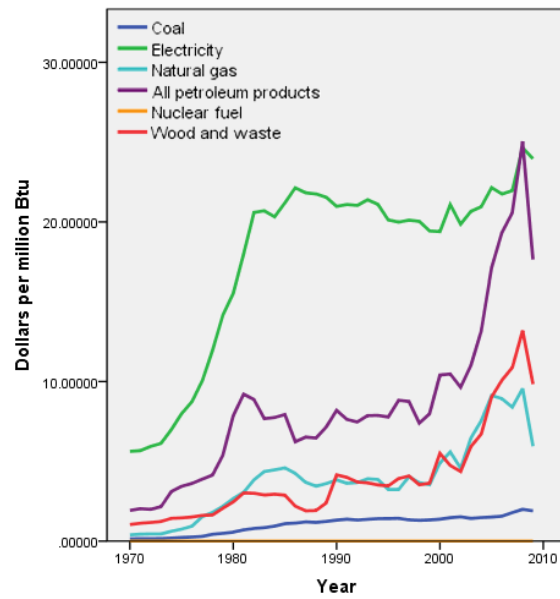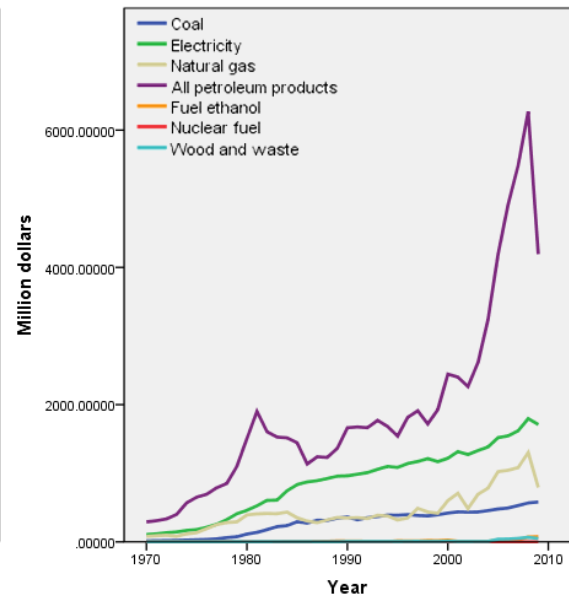

Figure 9: NMPRB

Figure 10: NMTCB

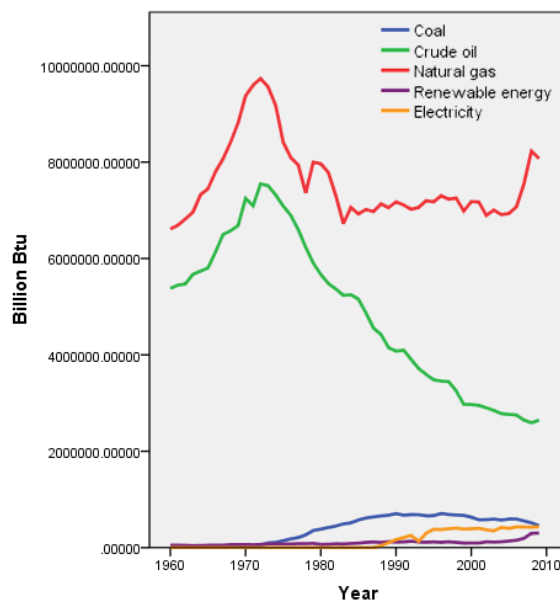Figure 11: NMTCD

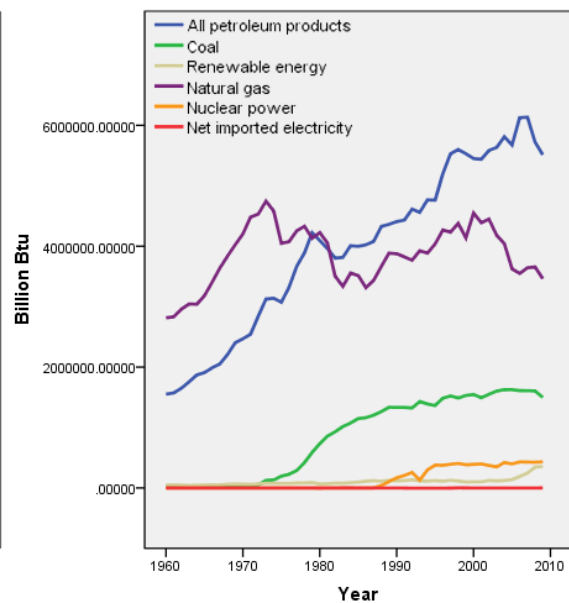
Figure 12: NMTCV

2.2.4 Texas
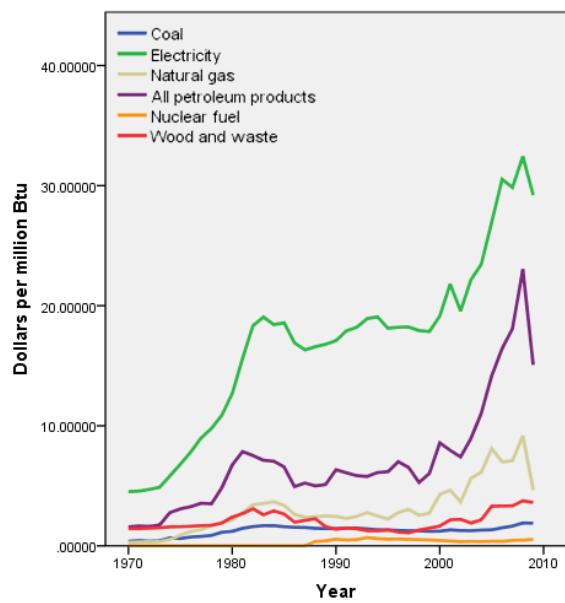

Figure 13: TXPRB

Figure 14: TXTCB

Figure 15: TXTCD

Figure 16: TXTCV

Appendices

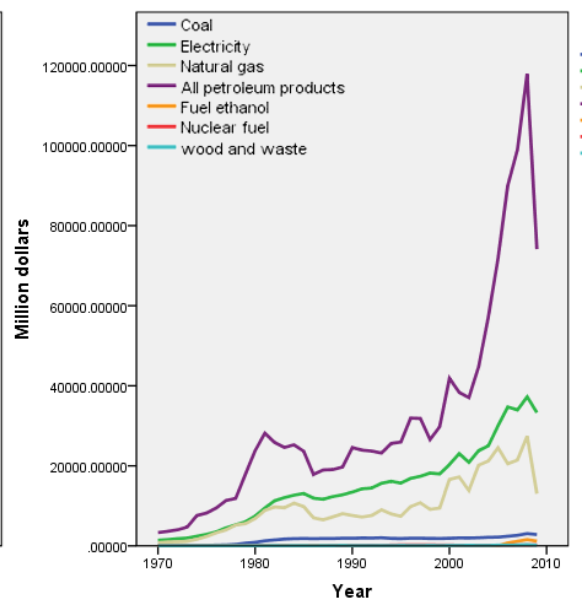*Proof.* x   □

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

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

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:

```matlab
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:**

```cpp
//============================================================================
// 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() {
```

```cpp
    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;
}
```