



## CHAPTER III

### RESEARCH METHODOLOGY

In this chapter , the research methodology used in this study is described . The research methodology conclude how to collect data in the study , source of data and tool for collect data . There is also methodology to analyze the data to meet the objective of the study in details.

#### **3.1 Research Methodology**

In the research implement to investigate electricity cost performance of electricity production in Thailand . There are steps of research methodology shown in figure 3-1 as follows

##### **3.1.1 Theory and Literature review**

Theory and relevant research studying from books , papers , journals and websites in the each theory fields.

##### **3.1.2 Study in details of Thailand Power Development Plan (PDP) as PDP 2010 , PDP 2010**

Revision 3 and PDP 2012 from data and website.

##### **3.1.3 Study of electricity cost criteria and condition in present.**

##### **3.1.4 Problem analysis.**

##### **3.1.5 Cost performance analysis.**

##### **3.1.6 Comments on cost performance of each Power Development Plan(PDP).**

##### **3.1.7 Conclusion.**

## 3.2 Detail of Methodology

### 3.2.1 Theory and Literature review

Theory and relevant research studying from books , papers , journals and websites in the theory field as following :

- Industrial Organization
- Production Theory and Production Function
- Cost Performance
- Electricity Energy Regulation

3.2.2. Study in details of Thailand Power Development Plan (PDP) as PDP 2010 , PDP 2010 Revision 3 and PDP 2012 from data and website <http://www.egat.co.th>

### 3.2.3. Collect of data

Collection implementation of data as Thailand Power Development Plan (PDP) , Electricity production function , power plant emission and social affect of power plant.

- Thailand Power Development Plan (PDP) as PDP 2010 , PDP 2010 Revision 3 and PDP 2012 from data and website <http://www.egat.co.th>
- Electricity production function from bidding document and power plant contract .
- Electricity capital and cost from Accounting and Operation and Maintenance division in EGAT.
- power plant emission from environmental division in EGAT , books and journals.
- social affect from power plant from social division in EGAT.

### 3.2.4. Cost performance analysis.

Do cost performance analysis of electricity in each year of each PDP of PDP2010 , PDP2010 Revision 3 and PDP 2012 for 19 years since 2012 – 2030. And investigate cost of each year of each PDP.

### 3.2.5. Conclusion.

Conclusion in which PDP give the best electricity cost performance of electricity production.

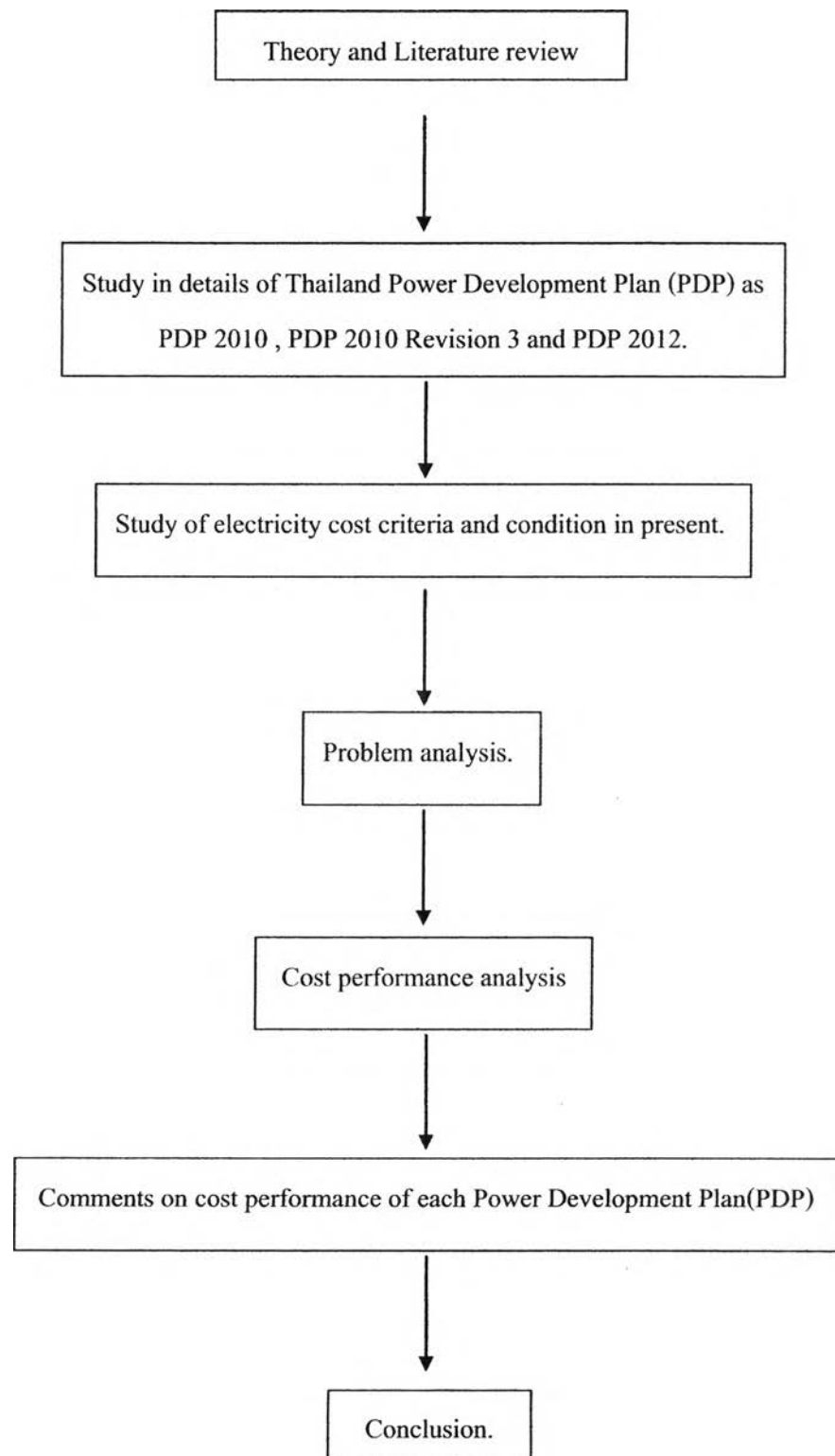


Figure 3.1 Research Methodology of this study .