Preface

Energy is the most important input for fuelling economic growth of any nation. Reaching modern amenities of life to its vast and diverse population is central to Indian vision of national wellbeing. The high growth trajectory that India hit in the 1990’s opened up visions of its grand future. India has earned a new status in the world stage as an emerging global power. Energy security has become a matter of national priority and messages in this regard are well accepted by society at large. This work, titled ‘Energy carriers for energy security of India-investigation for an optimum mix’ is a humble effort to contribute to the national endeavour to make India energy secure. It aims to look at the energy prospects of India from a planner’s view point with a bottom up approach. It looks at the data of energy-economy transactions during the period 1993-2008 as is evidenced in the input output transaction tables and tries to assess the significance of different energy options available to the nation. This study is organised in seven chapters.

The first chapter deals with the objectives of the study. The second chapter brings out the energy related issues encountered by growing economies with special preference to India and reviews similar works done on Input Output platform. The third chapter evaluates the Asian energy scenario relevant to India. Fourth chapter deals with the availability and potential of various energy sources in India and concerns to be addressed while availing them. The fifth chapter gives a brief about a methodology followed in this study. It freezes the parameters that influence energy security and finalizes the components of energy security index relevant to the study. The study is based on the data from input output transaction tables of India published since 1990 till date. It gives
details of data selection and suitability and also about the method of analysis and its adequacy.

The data analysis is done in chapter six. The structural linkages of energy sectors with economic sectors are brought out and the energy mixes of all sectors found out using energy specific IO table, a tool designed in this study on input output analysis platform for detailed energy centric analysis. The national energy mix of the economy for 93/94, 97/98, 2003/4 and 07/08 IO tables are found out. The study in this chapter also deals with energy security aspects of energy mixes of various economic sector groups and brings out their energy security indices. It also determines the energy security index of the national economy of the same period.

Chapter seven, the last chapter embarks on discussions on findings and concludes with suggestions.