The Chinese Steel Industry's Transformation
Structural Change, Performance and Demand on Resources

Edited by
Ligang Song
Associate Professor, Crawford School of Public Policy, Australian National University

Haimin Liu
Vice President, China Steel Industry Development Research Institute, Beijing

Edward Elgar
Cheltenham, UK • Northampton, MA, USA
Contents

List of contributors vi
Foreword vii
Preface ix

1 Steel industry development and transformation in China: an overview
   Ligang Song and Haimin Liu 1
2 Metal intensity in comparative historical perspective: China, North Asia and the United States
   Huw McKay 17
3 Economic growth, regional disparities and core steel demand in China
   Jane Golley, Yu Sheng and Yuchun Zheng 45
4 China’s iron and steel industry performance: total factor productivity and its determinants
   Yu Sheng and Ligang Song 69
5 The technical efficiency of China’s large and medium iron and steel enterprises: a firm-level analysis
   Yu Sheng and Ligang Song 89
6 The backward and forward linkages of the iron and steel industry in China and their implications
   Yu Sheng and Ligang Song 106
7 China’s shift from being a net importer to a net exporter of steel and its implications
   Haimin Liu and Ligang Song 129
8 China’s iron ore import demand and its determinants: a time-series analysis
   Yu Sheng and Ligang Song 145
9 Restructuring China’s steel industry and the implications for energy use and the environment
   Guoqing Dai and Ligang Song 162

Glossary 177
Index 179