

TABLE OF CONTENTS

<i>Preface</i>	iii
<i>Table of Cases</i>	ix

PART I BACKGROUND TO GREEN ENERGY LAW AND POLICY

CHAPTER 1 WHAT IS GREEN ENERGY?	3
--	----------

CHAPTER 2 GREEN ENERGY OBJECTIVES	7
--	----------

(1) Reducing Greenhouse Gas Emissions	7
(2) Other Environmental and Societal Benefits	13
(3) Sustainability	17
(4) Green Economy and Green Jobs	24

CHAPTER 3 INTERNATIONAL GREEN ENERGY INITIATIVES	29
---	-----------

(1) United Nations Framework Convention on Climate Change	29
(2) Group of 8 Nations and the International Energy Agency	33
(3) Other International Initiatives	39

CHAPTER 4 MEASURES TO ADVANCE GREEN ENERGY OBJECTIVES	41
--	-----------

(1) Renewable and Alternative Energy	41
(a) Renewable and Alternative Energy Terminology	41
(b) Leading Sources of Renewable and Alternative Energy	43
(c) Benefits of Renewable and Alternative Energy	54
(d) Other Renewable and Alternative Energy Issues	56
(2) Energy Conservation, Efficiency and Demand Management	59
(a) Conservation Terminology	59
(b) Benefits of Energy Conservation	62
(3) Cleaner Non-Renewable Energy	64
(4) Distributed Energy and Small Scale Facilities	68

CANADIAN GREEN ENERGY LAW AND POLICY

(5) Electricity Grid Enhancements and Smart Meters 73
(6) Clean Energy Technology 79

PART II JURISDICTION OVER ENERGY MATTERS IN CANADA

CHAPTER 5 CONSTITUTIONAL PRINCIPLES91

CHAPTER 6 IMPLICATIONS OF THE DIVISION OF JURISDICTION 101
(1) Comprehensive Climate Change Policy..... 101
(2) Harmonization of Other Green Energy Initiatives 104
(3) Consultation and Dialogue..... 105
(4) Proliferation of Programs and Approval Processes 106
(5) Inter-Regional Connection and Cooperation 109
(6) Interprovincial Transmission Grid..... 111

PART III CANADIAN GREEN ENERGY POLICY

CHAPTER 7 FEDERAL AND NATIONWIDE POLICY INITIATIVES..... 119

(1) Canadian Energy Perspective 119
(2) Canada’s Role in International Climate Change Initiatives..... 121
(3) Federal Policy Regarding Greenhouse Gas Emissions 126
(4) Council of the Federation 139
(a) Energy Strategy..... 140
(b) Climate Change 141
(5) Council of Energy Ministers/Council of Ministers of the Environment 143
(6) Nationwide Initiatives Involving Municipalities 148

CHAPTER 8 REGIONAL POLICY INITIATIVES..... 151

(1) Eastern Canada..... 155
(a) Council of Atlantic Premiers 155
(b) New England Governors — Eastern Canadian Premiers 159
(2) Western Canada..... 163
(a) Western Premiers/Western Energy Alliance 163
(b) Pacific Northwest Economic Region 166

TABLE OF CONTENTS

CHAPTER 9 PROVINCIAL AND TERRITORIAL POLICY INITIATIVES..... 169

(1) Provincial and Territorial Energy Perspectives..... 169

(a) Alberta 169

(b) British Columbia..... 171

(c) Manitoba 173

(d) New Brunswick..... 174

(e) Newfoundland and Labrador 175

(f) Nova Scotia 178

(g) Ontario 179

(h) Prince Edward Island 180

(i) Québec..... 181

(j) Saskatchewan..... 182

(k) The Territories 184

(2) Provincial and Territorial Plans and Strategies 189

PART IV CANADIAN GREEN ENERGY LAW

CHAPTER 10 GREEN ENERGY MANDATES AND STANDARDS..... 197

(1) Green Energy Mandates..... 197

(2) Green Energy Standards 199

CHAPTER 11 SUSTAINABLE DEVELOPMENT..... 207

CHAPTER 12 GREENHOUSE GASES AND AIR POLLUTANTS..... 213

(1) Kyoto Protocol Implementation Act 213

(2) Climate Change Jurisprudence 216

(3) Environmental Protection Legislation..... 220

(4) Greenhouse Gas Emissions Reporting Requirements..... 223

(5) Emissions Limits and Targets..... 231

(6) Carbon Tax 238

(7) Emissions Trading and Offsets 243

CHAPTER 13 ENERGY USE AND CONSERVATION..... 255

(1) Buildings..... 260

(2) Vehicles, Fuel and Transportation..... 269

(3) Appliances, Equipment and Lighting..... 280

(4) Industrial Sector 285

(5) Electricity Conservation 286

CANADIAN GREEN ENERGY LAW AND POLICY

CHAPTER 14 RENEWABLE ENERGY.....	291
(1) Electricity.....	291
(2) Geothermal Energy	299
(3) Bioenergy.....	301
(a) Biofuels and Biomass	302
(b) Biogas and Waste Management Facilities.....	306
CHAPTER 15 RENEWABLE AND ALTERNATIVE ENERGY PROJECTS.....	313
(1) Project Requirements and Issues	313
(2) Streamlining Approval Processes.....	322
(3) Small Scale Projects and District Energy	327
(4) Aboriginal and Community-based Projects.....	334
CHAPTER 16 OTHER ELECTRICITY INITIATIVES.....	341
(1) Net Metering	341
(2) Electricity Grid and Smart Meters.....	345
CHAPTER 17 NON-RENEWABLE ENERGY INITIATIVES	357
(1) Coal and Hydrocarbons	357
(2) Carbon Capture and Storage.....	365
(3) Combined Heat and Power	369
CHAPTER 18 PLANNING AND LOCAL GOVERNMENT POWERS	371
CHAPTER 19 JOB CREATION, TECHNOLOGY AND ECONOMIC DEVELOPMENT.....	377
<i>Index</i>	383