

Contents

- 1 Overview of Green Development 1**
 - 1.1 Background of Green Development 1
 - 1.2 Concept and Characteristics of Green Development 3
 - 1.2.1 Concept of Green Development 3
 - 1.2.2 Characteristics of Green Development. 5
 - 1.2.3 Approaches Toward Green Development 6
 - 1.3 International Progress in Green Development. 7
 - 1.3.1 Green Transition Courses of Major Countries and International Organizations 7
 - 1.3.2 Major Characteristics, Experiences, and Inspirations of International Green Development 10
 - 1.4 Green Development Assessment Indicators. 10
 - 1.4.1 Green Development Assessment Models. 11
 - 1.4.2 Global Green Development Assessment Systems 12
 - 1.4.3 Green Development Assessment Systems of China and ASEAN. 16
 - 1.5 Overall Structure and Research Framework for CAEO-1 21
 - References. 21
- 2 China-ASEAN Green Development Status 23**
 - 2.1 China 23
 - 2.1.1 Review of the Green Development Course 23
 - 2.1.2 Economic and Social Development 26
 - 2.1.3 Transition of Industrial Development 27
 - 2.1.4 Conservation and Utilization of Resources 30
 - 2.1.5 Environmental Protection 32
 - 2.1.6 Energy and Climate Change 41
 - 2.1.7 Ecosystem and Biodiversity. 43
 - 2.1.8 Sustainable Production and Consumption 47

2.2	ASEAN	49
2.2.1	Review of ASEAN Green Development Course	49
2.2.2	Economic and Social Development	52
2.2.3	Conservation and Utilization of Resources	53
2.2.4	Environmental Protection	56
2.2.5	Energy and Climate Change	63
2.2.6	Ecosystem and Biodiversity	65
2.2.7	Sustainable Production and Consumption	69
2.3	Comparative Results on China-ASEAN Green Development	74
	References	78
3	Drivers, Features, and Opportunities for Regional Green Development	79
3.1	Drivers for Regional Green Development	79
3.2	Features of Regional Environment	82
3.2.1	Intra-regional Overview	83
3.2.2	Green Development	84
3.2.3	Environment and Development Relations	87
3.2.4	Institutional Reform	88
3.3	Classification of Environment and Development Relations	90
3.3.1	Measurement Benchmark	90
3.3.2	Country Classification Results	92
3.4	Opportunities of Green Development	99
3.4.1	Aggregate Economic Output and Aggregate Emissions	100
3.4.2	Relationship Between Economic Development and Urban Environment	102
3.4.3	China-ASEAN Regional Industrial Transfer	104
3.4.4	Global Integration and the Belt and Road Initiative	105
	References	108
4	Policy Measures for Regional Green Development	109
4.1	Introduction	109
4.2	Overview	110
4.2.1	Environmental Governance System	110
4.2.2	Environmental Legal and Policy Framework	116
4.2.3	Environmental Planning and Action	122
4.3	Typical Policy Measures Analysis	125
4.3.1	Policy Measures to Address Climate Change	127
4.3.2	Policy Measures for Biodiversity Conservation	134
4.3.3	Policy Measures to Protect Freshwater Resources	139
4.3.4	Policy Measures for Air Pollution Prevention and Control	141
4.3.5	Policy Measures for Chemicals and Waste Management	144

4.3.6	Policy Measures to Protect Coastal Resources.	146
4.3.7	Policy Measures to Address Soil Degradation and Soil Erosion	148
4.4	Policy Evaluation	149
4.4.1	Economic Benefits.	150
4.4.2	Social Benefits.	150
4.4.3	Environmental Benefits	150
4.4.4	Policy Limitations and New Policy Demands	151
	References.	152
5	China-ASEAN Green Development Practice	155
5.1	Green Industrial Development	156
5.1.1	Agriculture	157
5.1.2	Manufacturing and Construction	161
5.1.3	Tertiary Industry	168
5.2	Resource Utilization and Response to Climate Change.	173
5.2.1	Improved Utilization of Water Resources and Oasis Creation in Xinjiang, China.	174
5.2.2	Forest Carbon Sinks and Bamboo Forestation.	175
5.2.3	NEWater in Singapore.	177
5.2.4	Barangay (Commune) in the Philippines.	177
5.2.5	Biomass Application in Thailand.	178
5.2.6	Promoting Energy Conservation in Small and Medium Scale Enterprises in Viet Nam	179
5.2.7	Achievement of Climate Change Emission Reduction Targets in Indonesia	180
5.2.8	Pollution Prevention and Control.	181
5.2.9	Air Pollution Prevention and Control in the Beijing-Tianjin-Hebei Region of China.	181
5.2.10	Water Pollution Prevention and Control in China	184
5.2.11	Soil Pollution Prevention and Control in China.	186
5.2.12	ASEAN Cooperation on Transboundary Haze Pollution Control.	187
5.2.13	Singapore National Bicycling Plan	189
5.2.14	Decentralized Wastewater Treatment Systems (DEWATS) in Remote Areas of Cambodia.	190
5.2.15	Semakau Landfill in Singapore	191
5.3	Biodiversity Conservation.	191
5.3.1	Nature Reserves in Sichuan Province, China.	192
5.3.2	Biodiversity Conservation Cooperation in ASEAN Region.	193
5.3.3	Coral Triangle	195
5.3.4	Heart of Borneo (HoB)	196

5.3.5	Green Contract for Communities Living in Buffer Zone of U Minh Thuong National Park in Viet Nam.	197
5.3.6	Nature Society of Singapore	197
5.4	Features and Outlook	198
5.4.1	Multi-stakeholder Participation in Green Development Measures	198
5.4.2	Technological Innovation to Drive Green Development	199
5.4.3	Incentive Mechanism to Promote Green Development Projects	199
5.4.4	Measures Adapted to Local Conditions to Ensure Implementation	200
	References.	201
6	An Outlook into the Future: Toward Green Transition.	203
6.1	Global Context: Sustainable Development Gets into Implementation Phase.	204
6.2	China and ASEAN: Future Trends in Environment and Development	206
6.2.1	Forecast of Society and Development	207
6.2.2	Future Environment Outlook.	210
6.2.3	Environment and Development Opportunities for China and ASEAN	213
6.3	Establishing a Community for ASEAN-China Environmental Cooperation: Toward Green Development Together.	214
6.3.1	Progress of ASEAN-China Cooperation on Green Development	214
6.3.2	Priority Areas for China-ASEAN Cooperation on Green Development	215
6.3.3	Priority Actions for China-ASEAN Cooperation on Green Development	219
6.3.4	Outlook into the Future: The Environment and Development of China and ASEAN.	224
	Working Group on China-ASEAN Environment Outlook.	227

China-ASEAN Environment Outlook 1 (CAEO-1)

Towards Green Development

2018, LI, 234 p. 51 illus., 29 illus. in color., Hardcover

ISBN: 978-981-10-6210-0