

## INDEX

### A

- Abe Cabinet, 178
- Action Plan to Deal with Climate Change in Thua Thien Hue Province, 52
- adaptation finance, 141, 142, 146–54, 158, 176–77
- Afforestation and Reforestation Clean Development Mechanism (AR-CDM), 182
- agriculture, 37–40, 70. *See also* farmers
- agroecology, 33–35, 37–40

### B

- Baguio City (Philippines)
  - climate risks in, 18–20
  - urban planning and water provision in, 12–14
  - water insecurity in, 10–11, 15–18, 20–25
- Baguio Water District (BWD), 11, 14–18, 21
- Bakker, Karen, 22
- bankable projects, 151
- banking industry, 159–60
- Batangas City (Philippines), 83
- Belison (Philippines), 84–85
- Ben Tre Province Water Management Project (Vietnam), 186

- biodiversity conservation, 176–77, 181–83
- buildings, 68–69
- Burnham, Daniel, 13
- BWD (Baguio Water District), 11, 14–18, 21

### C

- C40 Climate Leadership Group, 97–98
- Caloocan (Philippines), 81–82
- CAP (Consumers Association Penang), 35, 37–40
- CAP Programme (Climate Action Planning Programme), 80
- Carbon Disclosure Project (CDP)
  - online platform, 98, 100
- carbon emissions, 81–82, 83, 84, 95–98
- carbon metrics, 164
- Cavite City (Philippines), 82
- CBD (Convention on Biological Diversity), 176, 182
- CBI (Climate Bonds Initiative), 158
- CCA (climate change adaptation). *See* climate adaptation
- CDP online platform (Carbon Disclosure Project online platform), 98, 100
- CDRA (Climate and Disaster Risk Assessment), 77

- Centre for Environment, Technology, and Development (CETDEM), 35, 37–40
- Central Bank of Malaysia, 159
- Chennai (India), 109–15
- cities and city networks, 94, 97–101
- City Beautiful Movement, 13
- city governance  
 approach of, 93–94  
 of Indonesia, 95–101, 129–30, 143  
 of Philippines, 21–25, 74–79  
 of Vietnam, 48–55
- CityNet, 99–101
- Clean Water Act of 2004 (Philippines), 23
- Climate Action 100+, 158–59
- Climate Action Planning (CAP) Programme, 80
- climate adaptation  
 actions and policies for, 2, 74–85, 87–88, 95–101  
 financing for, 141, 142, 146–54, 158, 176–77  
 and heritage preservation, 48–55  
 resilience for, 114–15  
 risk disclosure for, 143–46  
 scenarios for, 65–67  
*See also* climate change
- Climate and Disaster Risk Assessment (CDRA), 77
- Climate Bonds Initiative (CBI), 158
- climate change  
 food security impacted by, 35  
 greenhouse gas emissions, 81–82, 83, 84, 95–98  
 intergovernmental panels on, 1, 45, 158  
 programmes for, 158–59  
 protecting assets from, 48–55  
 strategies and approaches towards, 181–83  
 urban structure impacted by, 68–69  
*See also* climate adaptation
- Climate Change Act of 2009 (Philippines), 76, 88
- climate change adaptation (CCA). *See* climate adaptation
- climate disclosures, 98, 100, 158, 159–66, 169–73
- climate resilient infrastructure, 68–69, 161–62, 180
- climate risks  
 actions and policies to mitigate, 2, 74–85, 87–88, 95–101  
 in the Complex of Hue Monuments, 46–48  
 and urban expansion, 62–65  
 for water security, 18–20
- CLUP (Comprehensive Land Use Plan), 77, 89
- coastal municipalities, 84–85
- Communist Party of Vietnam, 48–49
- Complex of Hue Monuments (Vietnam)  
 climate risks in, 46–48  
 heritage preservation in, 54–56  
 management of, 50–54
- complex systems, 108
- Comprehensive Land Use Plan (CLUP), 77, 89
- construction companies, 162–66
- Consumer Price Index (CPI), 36
- Consumers Association Penang (CAP), 35, 37–40
- Convention on Biological Diversity (CBD), 176, 182
- COP26 (United Nations Climate Change Conference), 176
- COVID-19 pandemic, 146, 148
- CPI (Consumer Price Index), 36
- cultural assets, 48–55

**D**

de-risking instruments, 151–54  
Department of Interior and Local Government (DILG), 77, 88  
Development Assistance Committee (DAC), 175  
Development Cooperation Charter, 181  
Dingalan (Philippines), 84–85  
disasters  
    occurrence of, 19–20, 47–48, 51–54, 62–63, 111–14, 130–37  
    risk management of, 76, 80–85, 87–89, 114–15, 179, 182, 185–86  
    *See also* floods  
donor countries, 175, 177–81, 185–86

**E**

Earth Observing System for disaster countermeasure, 185–86  
earthquakes, 20  
EbA (ecosystem-based adaptation), 176–77, 182–83  
ecological resilience, 115–16  
Economic Cooperation and Infrastructure Strategy Meeting (ECISM), 178–79  
economic growth and natural disasters, 130–31, 136–37. *See also* disasters  
ecosystem-based adaptation (EbA), 176–77, 182–83  
ecosystem services, 69–70, 177  
Environmental, Social and Governance (ESG), 162  
environmental protection and urban expansion, 65–71  
European Union (EU), 177, 182

**F**

FAO (Food and Agriculture Organization), 33

farm-to-fork distance, 31, 39, 40  
farmers, 33, 37–40. *See also* food farmers-to-farmers principle, 37  
Financial Stability Board (FSB), 160  
floods  
    consequences of, 19, 47, 48  
    economic performance, impacts on, 130–31, 136–37  
    and hygiene behaviour, 134–35  
    mitigation and management of, 51–54, 114–15, 116–19, 129, 131–35, 186  
    as systemic disruption, 110–14  
    and urban development, 62–65  
Food and Agriculture Organization (FAO), 33  
food security issues, 31–40  
forest management, 181–83  
FSB (Financial Stability Board), 160  
funding, 141, 142, 146–51

**G**

“G7 Ise-Shima Principles for Promoting Quality Infrastructure Investment”, 180  
George Town, 109–15  
GHG emissions (greenhouse gas emissions), 81–82, 83, 84, 95–98  
Global Agenda, 184–86  
Global Development Agenda, 75–76, 87–88  
governance. *See* city governance  
Green and Climate Bonds Market, 158  
green building indices, 161–62  
green infrastructure, 180. *See also* climate resilient infrastructure  
greenhouse gas (GHG) emissions, 81–82, 83, 84, 95–98  
Guidelines on the Formulation of Local Climate Change Action Plan, 77

**H**

HCMC (Ho Chi Minh City, formerly Saigon, Vietnam), 62–71  
 heritage preservation, 45, 48–55  
 High-Level Panel of Experts (HLPE), 32  
 highly urbanized cities (HUC), 80–82  
 historical assets, 48–55  
 historical urban landscapes, 108–14  
 HLPE (High-Level Panel of Experts), 32  
 Ho Chi Minh City (HCMC, formerly Saigon, Vietnam), 62–71  
 Housing and Land Use Regulatory Board (HLURB), 88  
 HUC (highly urbanized cities), 80–82  
 Hue (Complex of Hue Monuments), 46–56  
 Hue Monument Conservation Centre, 47, 55, 56. *See also* Complex of Hue Monuments (Vietnam)  
 hydrometeorological events, 19–20. *See also* disasters; floods  
 hygiene, 134–35. *See also* floods

**I**

ICLEI (International Council for Local Environmental Initiatives), 98  
 India, 109–15  
 Indonesia, 2, 95–101, 128–29, 131–37, 143–49  
 infrastructure  
   assistance from Japan for, 175, 178–80, 184  
   climate resilience of, 68–69, 161–62, 180  
   environmental projects in, 185–86  
 Intergovernmental Panel on Climate Change (IPCC), 1, 45, 158  
 International Council for Local Environmental Initiatives (ICLEI), 98

**J**

Jakarta (Indonesia)  
   city networks in, 97–101  
   climate actions and policies of, 95–97  
   climate risks in, 2, 95  
   fiscal capacity of, 146–49  
   floods in, 131–37  
   metropolitan area of, 128–29, 131–33  
   urban adaptation planning of, 143–46  
 Japan, 174–87  
 Japan International Cooperation Agency (JICA), 181–86  
 Japan's Revival Strategy, 178  
 JICA Cooperation Strategy for Natural Environment Conservation, 183  
 Joint Committee on Climate Change (JC3), 159

**K**

knowledge, 37–40, 49, 116–19

**L**

La via Campesina, 32–33  
 land resources management, 65–71, 88  
 Law on Environmental Protection (Vietnam), 49  
*LGU Guidebook on the Formulation of Local Climate Change Action Plans*, 77  
 Local Climate Change Action Plan (LCCAP), 74–84. *See also* climate change  
 local government units (LGUs), 74–79

**M**

- Malaysia  
agroecology in, 37–40  
Central Bank of, 159  
climate adaptation in, 114–15  
food insecurity in, 36  
TCFD of property companies in,  
162–66  
*See also* Penang
- Malaysia Institute of Sustainable  
Agriculture (MISA), 35, 37–40
- Muthialpet (India), 109

**N**

- NAMAs (Nationally Appropriate  
Mitigation Actions), 95
- National Climate Adaptation Plan of  
2021–2030 (Vietnam), 49
- National Climate Change Action  
Plan (NCCAP) (Philippines),  
76–77
- National Commission for Climate  
Change (Vietnam), 50–51
- Nationally Appropriate Mitigation  
Actions (NAMAs), 95
- Nationally Determined Contributions  
(NDC), 49, 96–97, 164
- nature-based solutions (NBS), 129,  
131–35
- nature conservation, 183–86
- Nature Environment Conservation  
Strategy, 182
- NBS (nature-based solutions), 129,  
131–35
- NCCAP (National Climate Change  
Action Plan), 76–77
- NDC (Nationally Determined  
Contributions), 49, 96–97, 164
- non-governmental organizations  
(NGOs), 35

**O**

- ODA Charter (2003), 175, 180
- Official Development Assistance  
(ODA), 177–86
- Organization for Economic  
Cooperation and Development  
(OECD), 175

**P**

- Paris Agreement, 49, 75–76, 87, 93,  
96–97, 164
- Partnership for Quality  
Infrastructure: Investment for  
Asia's Future, 175
- Penang (Malaysia), 35, 37–40, 109–10,  
112–15
- peri-urban cities, 82–83
- Philippines  
climate adaptation in, 80–85, 87–88  
climate risks in, 18–20  
local government units, 74–79  
urban planning in, 12–14, 77, 89  
water insecurity in, 10–11, 15–18,  
20–25
- polycentric governance, 93–94
- population densities, 63–64
- power, balance of, 33
- PPP (public-private partnership), 178,  
183–84
- PRECIS (Providing Regional Impact  
Studies), 19
- Presidential Regulations, 96
- Principles of Responsible Banking  
(PRB), 159
- property companies, 162–66
- Providing Regional Impact Studies  
(PRECIS), 19
- public health, 136–37
- public-private partnership (PPP), 178,  
183–84

**Q**

Quezon City (Philippines), 80–81

**R**

rainfall, 19–20, 47, 48. *See also* floods  
 Republic Act 9729 (Philippines),  
 76–77

residential buildings, 68–69

resilience, 114–15

retention pools, 131, 135

**S**

Saigon (Ho Chi Minh City, Vietnam),  
 62–71

sanitation facilities, 131–32, 134–35

SDGs (Sustainable Development  
 Goals), 76, 87, 159, 181. *See also*  
 climate change

sea levels, 46. *See also* floods

seed fairs, 39

Sendai Framework for Disaster Risk  
 Reduction 2015–2030, 76, 87

smallholding farming, 37–40

social safety nets for farmers, 40

social system, 108

spatial management, 65–67

Statistical Regional Climate Model  
 (STAR), 19

sustainability reporting tools (SRTs),  
 158

sustainable agriculture, 37–38. *See also*  
 agriculture approaches

Sustainable Development Goals  
 (SDGs), 76, 87, 159, 181. *See also*  
 climate change

**T**

Task Force on Climate-Related  
 Financial Disclosures (TCFD),  
 159–63, 165–66, 169–73

TCFD City Index (TCI), 159, 162

Thua Thien Hue Province (Vietnam),  
 51–54

tree re-planting activities, 135

**U**

United Nations Committee on Food  
 Security, 32

United Nations Climate Change  
 Conference (COP26), 176

United Nations Convention  
 to Combat Desertification  
 (UNCCD), 182

United Nations Educational, Scientific  
 and Cultural Organization  
 (UNESCO), 46–56

United Nations Environment  
 Assembly (UNEA), 177, 182

United Nations Environment  
 Programme Finance Initiative  
 (UNEP-FI), 159

United Nations Framework  
 Convention on Climate Change  
 (UNFCCC), 76, 87, 107, 182

United Nations General Assembly,  
 14–15

United Nations Principles of  
 Responsible Investment  
 (UNPRI), 159

urban areas

expansion of, 62–71

flooding in, 110–14

governance of (*see* city governance)

highly urbanized cities (HUC),  
 80–82

historical urban landscapes, 108–14

infrastructure of, 68–69

planning of, 12–14, 68–70, 77, 89

risks in (*see* climate risks)

urban structure type (UST) mapping,  
 65–67

**V**

## Vietnam

- climate risks in, 46–48, 62–71
- environmental infrastructure projects in, 185–86
- heritage preservation in, 48–56

**W**

- waste disposal, 134–35
- water security issues, 10–18, 20–25
- Water Act of 2004 (Philippines), 23
- World Cultural Heritage Sites, 46–54
- World Wide Fund for Nature, 19