

The Political Economy of the Asia Pacific

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Terry O'Callaghan • Geordan Graetz
Editors

Mining in the Asia-Pacific

Risks, Challenges and Opportunities

 Springer

Editors

Terry O'Callaghan
Centre for International Risk
School of Communication, International
Studies and Languages
The University of South Australia
Adelaide, SA, Australia

Geordan Graetz
Centre for International Risk
School of Communication, International
Studies and Languages
The University of South Australia
Adelaide, SA, Australia

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Terry dedicates this book to Margherita O'Callaghan and Cristina and Vincenza Indelicato.

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grant to examine the development implications of a lack of infrastructure in the Asia-Pacific region, especially in relation to the problem of energy poverty.

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This book is fortunate to include contributions from some of the most esteemed thinkers and practitioners in the mining industry. We thank those contributors for their interest and willingness to participate. We hope, as editors, that we have done justice to their ideas.

The book is meant to be a reflection of the ‘state of the art’ of the mining industry and a forecast of its future. If the sector is to flourish in the coming decades, we believe that the lessons contained in this book will need to be heeded and the prescriptions adopted.

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Abbreviations

4QA	Four-quadrant analysis
ABS	Australian Bureau of Statistics
ACARP	The Australian Coal Industry's Research Program
ADB	Asian Development Bank
AFC	Asian financial crisis
AMD	Acid mine drainage
AMWG	Abandoned Mines Working Group
ANCOLD	Australian National Committee on Large Dams
ANZECC	Australian and New Zealand Environment and Conservation Council
ANZMEC	Australian and New Zealand Minerals and Energy Council
AONSW	Audit Office of New South Wales
APEC	Asia-Pacific Economic Cooperation
ARC	Australian Research Council
ARD	Acid rock drainage
ARF	ASEAN Regional Forum
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand
ASEAN	Association of Southeast Asian Nations
ASM	Artisanal and small-scale mining
AUSIMM	Australasian Institute of Mining and Metallurgy
BCCCSP	British Columbia Crown Contaminated Sites Program
BIT	Bilateral investment treaty
BNE	Business and the natural environment
BOM	Bureau of Meteorology
BOO	Build-operate-own
BOP	Bottom of the pyramid
BOT	Build-operate-transfer
BTO	Build-transfer-operate
BTU	British thermal unit
CASM	Communities and Small-Scale Mining
CBM	Coal bed methane

CCD	Corporate community development
CCP	Chinese Communist Party
CCR	Corporate community relations
CCSP	Crown Contaminated Sites Program
CE	Creeping expropriation
CEO	Chief executive officer
CHP	Combined heat and power plants
CLM	Contaminated land management
CMLR	Centre for Mined Land Rehabilitation
CNOOC	China National Offshore Oil Corporation
CNPC	China National Petroleum Corporation
CO ₂	Carbon dioxide
COAG	Council of Australian Governments
COCHILCO	Chilean Copper Commission
COW	Contract of work
CPI	Corruption Perceptions Index
CSG	Coal seam gas
CSR	Corporate social responsibility
DE	Direct expropriation
DEHP	Department of Environment and Heritage Protection, Queensland
DMC	Domestic material consumption
DME	Department of Mines and Energy, Western Australia
DMP	Department of Mines and Petroleum, Western Australia
DNRM	Department of Natural Resources and Mines, Queensland
DRC	Democratic Republic of the Congo
DRET	Department of Resources, Energy and Tourism
DSB	Dispute Settlement Body
DSTP	Deep-sea mine tailings placement
DTIRIS	Department of Trade and Investment, Regional Infrastructure and Services
EAAU	East Asia Analytical Unit
EAS	East Asia Summit
EIA	Energy Information Administration
EIA	Environmental impact assessment
EITI	Extractive Industries Transparency Initiative
EMP	Environmental management plan
EMOS	Environmental Management Overview Strategy
ENI	Ente Nazionale Idrocarburi, Italy
EPA	Environmental Protection Agency
EPBC	Environment Protection and Biodiversity Conservation Act (Cth) 1999
EPI	Environmental Performance Index
ERA	Energy Resources of Australia
EU	European Union
FA	Financial assurance
FDI	Foreign direct investment

FIFO	Fly-in, fly-out
FMG	Fortescue Metals Group
FOB	Free on board
G7	Group of 7
GAIL	Gas Authority of India Limited
GATT	General Agreement on Tariffs and Trade
GAZPROM	Gazovaya Promyshlennost
GDP	Gross domestic product
GFC	Global financial crisis
GFCF	Gross fixed capital formation
GHG	Greenhouse gases
GIIGNL	International Group of Liquefied Natural Gas Importers
GIS	Geographical information system
GMI	Global Mining Initiative
GMS	Grammes
GRI	Global Reporting Initiative
GSP	Gross state product
GUCAS	Guided Uniform Criteria Assessment System
GW	Gigawatt
H&S	Health and safety
HH	Henry Hub
HHI	Herfindahl-Hirschman Index
HRC	Human Rights Council
HSEC	Health, safety, environment and community
IAEA	International Atomic Energy Agency
IBA-SEE	Internationale Bauausstellung Fürst-Pückler-Land, Germany
ICEL	Indonesian Center for Environmental Law
ICMM	International Council on Mining and Metals
ICSG	International Copper Study Group
ICSID	International Centre for Settlement of Investment Disputes
IEA	International Energy Agency
IEEJ	Institute of Energy Economics, Japan
IESC	Independent Expert Scientific Committee on Coal Seam Gas and Large Coal Mining Development
IFC	International Finance Corporation
IFOE	International Friends of the Earth
IIED	International Institute for Environment and Development
IISI	International Iron and Steel Institute
IMF	International Monetary Fund
INAP	International Network for Acid Prevention
IOC	International Oil Company
IPCC	Intergovernmental Panel on Climate Change
IPE	International political economy
IRR	Internal rate of return
ISO	International Organization for Standardization

IUCN	World Conservation Union
JBIC	Japan Bank for International Cooperation
JCC	Japan Crude Cocktail
JKM	Japan/Korea Marker
JOGMEC	Japan Oil, Gas and Metals National Corporation
JATAM	Jaringan Advokasi Tambang, Indonesia
KOGAS	Korea Gas Corporation
LMU	Legacy Mine Unit
LNG	Liquefied natural gas
LSM	Large-scale mining
LTO	Licence to operate
M&A	Mergers and acquisitions
MCA	Minerals Council of Australia
MCMPR	Ministerial Council on Mineral and Petroleum Resources, Australia
MEG	SNL Metals Economics Group
METI	Ministry of Economy, Trade and Industry, Japan
MIGA	Multilateral Investment Guarantee Agency
MIRECO	Mine Reclamation Corporation
MMBTU	Million British thermal units
MMSD	Mining, Minerals and Sustainable Development
MMSS	Mining and Metals Sector Supplement
MNC	Multinational corporation
MOF	Ministry of Finance, Japan
MPMD	Mines and Petroleum Management Division, Northern Territory
MRF	Mining Rehabilitation Fund, Western Australia
MRRT	Minerals resource rent tax
MT	Million tonnes
MTCE	Million tonnes of coal equivalent
MTOE	Million tonnes of oil equivalent
MTPA	Million tonnes per annum
NAO	North Atlantic Oscillation
NGO	Nongovernment organisation
NOAMI	National Orphaned/Abandoned Mines Initiative
NOC	National oil company
NPV	Net present value
NSW	New South Wales
NT	Northern Territory
NTMC	Northern Territory Minerals Council (Inc.)
OAGBC	Office of the Auditor General of British Columbia
OBM	Obsolescing bargain model
OECD	Organisation for Economic Co-operation and Development
OHCHR	Office of the United Nations High Commissioner for Human Rights
OPEC	Organization of the Petroleum Exporting Countries
OT	Oyu Tolgoi, Mongolia
PJ	Petajoules

PMSEIC	Prime Minister's Science, Engineering and Innovation Council
PNG	Papua New Guinea
POSCO	Pohang Iron and Steel Company
PPI	Policy Perception Index
PPP	Public-private partnership
PPP	Purchasing power parity
Q2	Second quarter
QAO	Queensland Audit Office
QCA	Queensland Commission of Audit
QFCI	Queensland Floods Commission of Inquiry
RN	Resource nationalism
SA	South Australia
SCER	Standing Council on Energy and Resources
SCO	Shanghai Cooperation Organisation
SD	Sustainable development
SLO	Social licence to operate
SMCRA	Surface Mining Control and Reclamation Act, 1977
SO	Southern Oscillation
SOE	State-owned enterprise
SOHO	Sustainability Opportunities and Hazards Overview
SOI	Southern Oscillation Index
SPeAR	Sustainable Project Appraisal Routine
SWF	Sovereign wealth fund
SX-EW	Solvent extraction and electrowinning
TEPCO	Tokyo Electric Power Company
TNC	Transnational corporation
TRIP	Trade-related intellectual property rights
TWH	Terawatt hour
UCG	Underground coal gasification
UDHR	Universal Declaration of Human Rights
UK	United Kingdom
UN	United Nations
UNCTAD	United Nations Conference on Trade and Development
UNEP	United Nations Environment Programme
US	United States of America
USD	US dollar
USGS	United States Geological Survey
VAGO	Victorian Auditor-General's Office
WA	Western Australia
WBCSD	World Business Council for Sustainable Development
WBMS	World Bureau of Metal Statistics
WHO	World Health Organization
WOAG	Western Australian Office of the Auditor General
WTO	World Trade Organization

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