

ENERGY SECURITY ALONG THE NEW SILK ROAD

Guaranteeing energy security is one of the most complex challenges of energy law and policy. Energy insecurity threatens economic development, social peace and stability. This book focuses on energy security in the strategically important region of Central Asia. The region holds huge energy reserves, but its energy systems are highly inefficient and unreliable, and thus require urgent reform. However, endemic corruption, discrimination and the strong centralization of power have so far blocked initiatives to reorganize energy supply. The case of Central Asia is uniquely relevant for understanding the informal constraints on energy law and policy. In addition, Central Asian energy insecurity illustrates the impact of geopolitics on the regulation of energy markets. The region is strategically located in Russia's sphere of influence and along China's New Silk Road. Its energy situation highlights the complex interactions amongst energy law, geopolitics and institutions.

Anatole Boute is an associate professor at The Chinese University of Hong Kong, specializing in energy law. He has extensive working and academic experience in the Eurasian energy markets (Russia, Central Asia, EU and China), including advisory work for the major development banks. He is the author of *Russian Electricity and Energy Investment Law* (2015).





CAMBRIDGE STUDIES ON ENVIRONMENT, ENERGY AND NATURAL RESOURCES GOVERNANCE

Cambridge Studies on Environment, Energy and Natural Resources Governance publishes foundational monographs of general interest to scholars and practitioners within the broadly defined fields of sustainable development policy, including studies on law, economics, politics, history and policy. These fields currently attract unprecedented interest due both to the urgency of developing policies to address climate change, the energy transition, food security and water availability, and more generally, to the progressive realization of the impact of humans as a geological driver of the state of the Earth, now called the 'Anthropocene'.

The general editor of the series is Professor Jorge E. Viñuales, the Harold Samuel Chair of Law and Environmental Policy at the University of Cambridge and the Founder and First Director of the Cambridge Centre for Environment, Energy and Natural Resource Governance (C-EENRG).





Energy Security along the New Silk Road

ENERGY LAW AND GEOPOLITICS IN CENTRAL ASIA

ANATOLE BOUTE

The Chinese University of Hong Kong





CAMBRIDGE UNIVERSITY PRESS

University Printing House, Cambridge CB2 8BS, United Kingdom One Liberty Plaza, 20th Floor, New York, NY 10006, USA 477 Williamstown Road, Port Melbourne, VIC 3207, Australia 314–321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre, New Delhi – 110025, India

79 Anson Road, #06–04/06, Singapore 079906

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of education, learning, and research at the highest international levels of excellence.

www.cambridge.org Information on this title: www.cambridge.org/9781108498975 DOI: 10.1017/9781108614481

© Anatole Boute 2019

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press.

First published 2019

Printed and bound in Great Britain by Clays Ltd, Elcograf S.p.A.

A catalogue record for this publication is available from the British Library.

Library of Congress Cataloging-in-Publication Data

NAMES: Boute, Anatole, author.

TITLE: Energy security along the new silk road: energy law and geopolitics in Central Asia / Anatole Boute, Chinese University of Hong Kong.

DESCRIPTION: Cambridge, United Kingdom; New York, NY, USA: Cambridge University Press, 2019. | Series: Cambridge studies on environment, energy and natural resources governance | Includes bibliographical references and index.

IDENTIFIERS: LCCN 2019007681 | ISBN 9781108498975 (hardback) SUBJECTS: LCSH: Energy security – Law and legislation – Asia, Central.

CLASSIFICATION: LCC KL9853 .B68 2019 | DDC 343.5809/2–dc23

LC record available at https://lccn.loc.gov/2019007681

ISBN 978-1-108-49897-5 Hardback

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-party internet websites referred to in this publication and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.



> Une pratique de l'interculturalité du droit, dédiée à ma mère et mon père





Contents

List of Figures		page xii	
List	st of Maps		xiii
Prej	eface and Acknowledgements		XV
List	st of Abbreviations		xviii
1	Introduction		1
	1.1. Energy Security in Transition as	nd Developing Economies:	
	The Relevance of Central Asia	1 0	1
	1.2. Energy Law and Market Reform	1	5
	1.3. Institutional Constraints on Man	ket Reform	11
	1.4. Structure of the Book		18
2	Central Asian Energy Security		21
	2.1. Introduction		21
	2.2. Regional Energy Security Chall	enges	23
	2.3. National Energy Security Challe	enges	36
	2.4. Miscellaneous Interlinked Ener	gy Security Challenges	62
3	Regional Energy Market Reform		65
	3.1. Introduction		65
	3.2. Regional Energy Cooperation A	greements in Central Asia	67
	3.3. Institutional Obstacles to Region	nal Energy Cooperation	72
	3.4. The Chimera of Regional Energ	gy Market Integration	96
4	Corporate Restructuring Reform		100
	4.1. Introduction		100
	4.2. Corporatization		102
	4.3. Unbundling		104



x Contents

	4·4· 4·5·	Privatization Institutional and Geopolitical Limits to Corporate Restructuring	114 126
5	Refo	orm of the Energy Market Architecture	133
	5.1.	Introduction	133
	5.2.	Implementation of the Reform Textbook in Central Asia	134
	5.3.	Institutional Constraints to Market Reform	152
	5.4.	Is Energy Market Reform Impossible?	170
6	Tari	ff Reforms	172
	6.1.	Introduction	172
	6.2.	Cost Recovery for Energy Security	175
	6.3.	Institutional Obstacles to Cost Recovery	184
	6.4.	The Role of the Courts	191
	6.5.	Overcoming the Central Asian Energy Tariff Conundrum	202
7	Market Reform, Consumer Protection and Energy Efficiency		
	7.1.	Introduction	205
	7.2.	Transparency and Accountability	207
	7·3·	Consumer Protection before the Central Asian Judiciary	210
	7.4.	Consumption Subsidies	212
	7.5.	Energy Affordability through Energy Efficiency	217
	7.6.	Clean Energy Subsidies and Consumer Protection	224
	7.7.	Breaking the Vicious Cycle of Artificially Low Energy Prices	226
8	Non	-payment and Theft	228
	8.1.	Introduction	228
	8.2.	The Challenge of Non-payment and Theft in Central Asia	230
	8.3.	Institutional Obstacles to Improved Payment Discipline	232
	8.4.	Central Asian Law and Regulation on Payment Collection	237
	8.5.	The Role of National Courts in the Enforcement of Payment	
		Collection	242
	8.6.	Assessing the Courts' Contribution to Improved Payment	·
		Collection in Central Asia	250
9	Con	clusion	253
	9.1.	Energy Security and Market Reform	253
	9.2.	Adjusting Reform to Institutions	255
	/	, ,	//



	Contents	xi
9.3.	The Geopolitics of Foreign Energy Investments along	
, ,	the New Silk Road	258
9.4.	Foreign Investments and the Role of External	
	Commitment Devices	260
Select Bibliography		264
Index		



Figures

раде 30
31
37
52
52
106
100
112
114



Map

2.1 Central Asian Power System

page 25

xiii





Preface and Acknowledgements

Ensuring energy security is a task of high social, political and economic sensitivity. As I put the finishing touches on this book, France was facing another week of major social unrest following its government's decision to increase fuel taxes. These protests, which emerged seemingly out of nowhere, developed with bewildering speed. In Central Asia – the focus of this book – the decision of the Kyrgyz government to increase electricity tariffs helped trigger the 2010 Kyrgyz Revolution, eventually resulting in regime change. The case of Central Asia provides a uniquely relevant laboratory for studying the role of energy law in delivering the objective of energy security in a context of high energy poverty, significant energy investment needs and increasing urgency to adapt to and mitigate climate change. Given the acute institutional barriers to energy price increases and resistance to market reform in the region, important lessons can be learned from the difficulties that the Central Asian states face in creating a functioning legal framework to achieve energy security.

The lessons of the Central Asian case are of broad relevance, but are particularly important for transition and emerging economies, where the challenge of reconciling energy poverty, energy security and decarbonization is especially pronounced. I hope that my analysis will prove useful not only to scholars of energy law but also to policymakers and students of politics more generally. As highlighted by ongoing events in France, informal constraints on energy reforms can, if ignored or poorly managed, block reforms and even trigger political unrest, regardless of the technical sophistication of the legal arrangements governing reform.

The case of Central Asia is also highly relevant because it underlines the increasing impact of geopolitics on the regulation of energy markets. The close interrelation of geopolitics and energy regulation has traditionally been studied in the context of the deteriorating energy relations between the European Union and Russia. Energy security in Central Asia provides another perspective on the geopolitics of energy and its relevance for energy law. As a major energy production and transit region, Central Asia is a key consideration in the strategic thinking of neighbouring foreign



xvi

Preface and Acknowledgements

powers. For instance, the region is central not only to Russia's 'sphere of influence' and China's 'Belt and Road Initiative', but also to the EU-Asia Connectivity Strategy. Foreign energy investments along these 'New Silk Roads' have in recent years helped the poorer Central Asian states avoid the breakdown of their national energy systems, despite major deficiencies in domestic energy law. The case of Central Asian energy security highlights how investments made for geopolitical purposes can make a short-term contribution to energy security, but can also remove the incentive to reform energy markets towards commercial viability and, in some cases, trap the host states in a relation of dependency. In regions of strategic importance, energy law cannot be studied in isolation from geopolitical considerations.

I started the research underlying this book with a study for the Energy Charter Secretariat on the reform of the Central Asian electricity markets. I am grateful to Kanat Botbaev for inviting me to work on this topic and for introducing me to key stakeholders in the Central Asian energy industry. The Faculty of Law at the Chinese University of Hong Kong (CUHK) provided a great environment for my academic research on Central Asian energy security. Dean Christopher Gane immediately recognized the relevance of the topic (particularly given the growing relevance of the region for China's Belt and Road Initiative and energy security) and provided tremendous support to the project. I also benefited immensely from the advice of Bryan Mercurio (the Associate Dean of Research of CUHK's Faculty of Law) and from discussions with Antoine Martin and Hao Zhang on economic and energy law, and research more generally. I also received valuable funding support in the form of a grant from the General Research Fund of Hong Kong (RGC14608118).

Research on the book benefited from more than a dozen research trips to the region. Regular interaction with key stakeholders in the Central Asian energy sector (including ministries, energy utilities, multilateral development banks, international energy organizations, foreign investors and local scholars) furthered my understanding of Central Asian energy regulation. I am grateful to all those who have taken the time to share their expertise on Kazakh, Kyrgyz, Tajik, Turkmen and Uzbek energy law and policy with me, and helped me navigate the complexity of the regional and national legal and policy framework governing energy security. Although the book at times is critical of the quality of energy law in the region, these criticisms are not directed at the local energy law and policy community, whose members (certainly all those I have met) are highly qualified and dedicated to improving legal standards in the region.

I am grateful to Ebby Adhami for introducing me to the Tajik energy community and to Oleg Arkhipkin for facilitating contacts with stakeholders in the Kazakh energy industry. Patrick Willems was a great companion in Dushanbe. William Partlett helped me make sense of Central Asian judicial practice and encouraged me to be more ambitious with my scholarship. Cooperation with Peter Hefele of the Konrad Adenauer Stiftung Energy Security program (e.g., on the organization of the conference on the 'Regulation of Energy Investments along the Belt and Road')



Preface and Acknowledgements

xvii

helped fine-tune the ideas of the book. Needless to say, they are not responsible for the views expressed in this book. Those views, along with any remaining errors, are entirely my own.

I am also grateful to Dzhamilia Maratova and Irina Kulikova for their excellent research assistance, in particular on judicial practice in the Kyrgyz and Kazakh energy sectors. Many thanks to Adrien Herda and Sai Ma for reproducing the map and figures in this book, and to Maggie Zhang for assisting with the index.

I also would like to thank David Wilmshurst for editing the book's contents, Dimitry Kochenov for providing valuable guidance on the proposal, and Joe Ng at Cambridge University Press for shepherding me through the publication process.

Last but not least, I am deeply indebted towards my wife Xiaoman for her unstinting support and patience, and for giving me the energy to complete this project.



Abbreviations

BVO Basin Water Association

CASA-1000 Central Asia South Asia Electricity Transmission and Trade Project

CNPC China National Petroleum Corporation
CUHK Chinese University of Hong Kong

EU European Union

FET Fair and Equitable Treatment

GDP gross domestic product

ICWC Interstate Coordinating Water Management Commission

INOGATE Interstate Oil and Gas to Europe program

JSC joint stock company

KEGOC Kazakh Electricity Grid Operating Company KOREM Kazakh Operator of the Electricity Market

MW megawatt

OECD Organisation for Economic Cooperation and Development

TALCO Tajik Aluminium Company

TBEA Tebian Electric Apparatus Company

TI terajoules