
Contents

Introduction	ix
Part 1. Self-Sufficiency, an Operational Concept	1
Chapter 1. The Two Autonomies	3
1.1. An old political and technical project	3
1.2. Autonomy of individuals	10
Chapter 2. New Perspectives on Production and Consumption	15
2.1. More numerous and “local” means of production	16
2.2. Improved energy efficiency and new levers to control demand	21
Chapter 3. Distinguish Between Self-Sufficiency and Self-Consumption	27
3.1. Self-sufficiency: a layered concept	27
3.1.1. Spontaneous self-sufficiency	27
3.1.2. Partial self-sufficiency	30
3.1.3. Extended self-sufficiency	30
3.2. Self-consumption, a convergence of technology and economics	34
3.2.1. Principle	34
3.2.2. Self-consumption and grid connection	38
3.3. Vehicle autonomy and self-sufficiency	44

Chapter 4. Measuring Self-Sufficiency and Self-Consumption	49
4.1. Satisfying one’s needs	49
4.2. Measuring, easy to say	53
Chapter 5. Self-Sufficiency on a Territorial Scale	61
5.1. A network organization	61
5.2. An interconnected set	65
Chapter 6. Self-Sufficiency as an Analytical Tool	81
6.1. Knowing the level of self-sufficiency, a prerequisite	81
6.2. Calculation of self-sufficiency	87
Part 2. The Energy Autonomy of Territories, a Legal Issue	97
Chapter 7. Local Authorities Territories, Framework of the New Energy System	99
7.1. From territory to territories: the perimeter transition	101
7.2. The territory of local authorities, a consistent perimeter	106
Chapter 8. Energy, a “New” Competence	111
8.1. Competences for omnipresent local authorities	111
8.2. A broad spectrum of intervention	117
Chapter 9. Autonomy Seen Through Positive Energy Territories	123
9.1. TEPOS: deciding and doing things “locally”	123
9.2. Regionalization and “nationalization” of positive energy territories	137
Chapter 10. “Autonomy”, from Slogan to Instrument	143
10.1. The local authority as a coordinator and catalyst	143
10.2. Autonomy as a means of communication and development	147
Chapter 11. Energy Autonomy: Local Authorities Within a Sovereign State	159
11.1. Autonomy and free administration	159
11.2. The issue of financing	167

Chapter 12. The Value of a Legal Perspective	171
12.1. Coexistence of autonomous territories	171
12.2. A pragmatic approach	175
Chapter 13. Territorial Energy Independence: A State Issue and a Nonsense for a Community	185
13.1. Autonomy and independence	185
13.2. Specific issues of independence	188
Conclusion	195
References	203
Index	223