

Table of Contents

INTRODUCTION	ix
SECTION I—ENERGY EFFICIENCY MAKES MONEY	1
CHAPTER 1—THE GLOBAL PERSPECTIVE	3
Looking Back.....	3
The Advent of Guaranteed Savings.....	8
Up to Now: Lessons Learned Around the World	9
Looking Forward.....	13
CHAPTER 2—ESCOs AND EPC MODELS.....	15
Basic ESCO Models	16
Basic EPC Concepts.....	17
EPC Models—Contrasted	21
Which Concept is Best?.....	23
Future Model Approaches	24
CHAPTER 3—FINANCING	27
Creating Bankable Projects.....	30
The Customer.....	31
Project Management.....	34
Money Matters	35
The Owner's Perspective	40
The Buy-In, the Buy-Down	41
A Primer of Financing.....	41
Lease Amount	45
Financing in Emerging Market.....	46
Market-Based Incentives	47
CHAPTER 4—MAKING CONTRACTS WORK	49
Contracts: Laying the Groundwork.....	50
Planning Agreement	51
Energy Services Agreement	53
Typical Energy Services Agreement Components.....	55
Key Contract Considerations.....	57

The Schedules	63
Negotiations	65
Negotiating Strategies.....	66
If I Were on "Their" Side of the Table.....	68
SECTION II—IMPLEMENTATION ASPECTS AND TRENDS	69
CHAPTER 5—MARKETS AND MARKETING	71
Marketing vs. Sales.....	71
Markets	72
Picking a Customer	74
Developing Marketing Strategies.....	76
Guiding Sales	78
The Proposal.....	79
CHAPTER 6—RELATED SERVICES ESCOs OFFER	83
Training	83
Awareness.....	85
Associated Services	86
Water Management	86
Water Absorbs Energy	89
CHAPTER 7—THE CRITICAL ROLE OF M&V	91
Energy Efficiency Cannot be Directly Measured	92
The Principles of M&V	92
IPMVP: The Different Options	93
M&V Plan	94
The Costs of M&V	99
Measurement and Verification: by Whom?	99
CHAPTER 8—ESCO ASSOCIATIONS	101
Membership	102
Functions.....	102
Financing Sources.....	104
Challenges	104
SECTION III—ESCO REPORTS: A TO Z.....	105
CHAPTER 9—COUNTRY REPORTS.....	107
Argentina	107
Australia.....	113

Austria	117
Belgium	124
Brazil	131
Bulgaria	140
Canada	146
Chile	152
China	158
Colombia	164
Croatia	169
Czech Republic	175
Denmark	183
Finland	192
France	198
Germany	206
Hong Kong	215
Hungary	220
India	227
Indonesia	234
Ireland	239
Israel	245
Italy	251
Jamaica	262
Japan	268
Jordan	274
Kenya	282
Lebanon	286
Mexico	291
Morocco	293
Netherlands	299
New Zealand	305
Norway	311
Philippines	315
Poland	325
Portugal	332
Romania	335
Russia	338
Slovakia	347
Slovenia	353
South Africa	359

South Korea	364
Spain	368
Sweden	375
Switzerland	378
Thailand	384
Tunisia	391
Turkey	396
Ukraine	404
United Kingdom	409
Uruguay	416
United States of America	420
Vietnam	428
 CHAPTER 10—THE WAY FORWARD	433
 APPENDICES	
A—Contributing Authors	445
B—ESCO Associations	472
C—Glossary of Acronyms	479
 REFERENCES	
By Chapter	481
General	490
 INDEX	503