

MARKETS AND PROFITABILITY

Market Analytics: Polyester and Intermediates - 2023

December 2023



This Report was prepared by NexantECA, the Energy and Chemicals Advisory company ("NexantECA"). Except where specifically stated in this Report, the information contained herein is prepared on the basis of information that is publicly available and, contains no confidential third party technical information to the best knowledge and belief of NexantECA. The information has not been independently verified or otherwise examined to determine its accuracy, completeness or financial feasibility. Neither NexantECA, Subscriber nor any person acting on behalf of either shall have any liabilities for any loss or damage arising from or connected to the use of any information contained in this Report. NexantECA does not represent or warrant that any assumed conditions will come to pass.

The Report is for Subscriber's internal use only and shall be kept strictly confidential. The Report should not be otherwise reproduced, distributed or used without first obtaining prior written consent by NexantECA. Each Subscriber agrees to use reasonable effort to protect the confidential nature of the Report.

Copyright © by NexantECA (BVI) Ltd. 2024. All rights reserved.



Contents

1	Executive Summary	1
1.1	Polyester Industry.....	1
1.2	PET Melt Phase	2
1.3	PET Bottle Grade	4
1.4	Mono Ethylene Glycol	6
1.5	Ethylene Oxide	8
1.6	para-Xylene	9
1.7	Purified Terephthalic Acid (PTA).....	11
1.8	Recycling.....	13
1.9	Methodology	15
2	The Polyester Industry.....	17
2.1	Introduction.....	17
2.1.1	Market Performance and Developments in Recycling	17
2.1.2	Purified Terephthalic Acid	21
2.1.3	Dimethyl Terephthalate	21
2.1.4	Ethylene Oxide	22
2.1.5	Mono Ethylene Glycol	22
2.1.6	Polyester Melt Phase	22
2.1.7	Polyester Bottle Grade	23
2.2	Report Scope	25
3	para-Xylene	26
3.1	Global	26
3.1.1	Key Developments	26
3.1.2	Demand.....	26
3.1.2.1	PTA	27
3.1.2.2	DMT	29
3.1.3	Supply	31
3.1.4	Supply, Demand and Trade	33
3.2	North America	36
3.2.1	Key Developments	36
3.2.2	Demand.....	36
3.2.3	Supply	38
3.2.4	Supply, Demand and Trade	39
3.3	South America.....	42
3.3.1	Key Developments	42
3.3.2	Demand.....	42
3.3.3	Supply	42
3.3.4	Supply, Demand and Trade	43
3.4	Western Europe	44
3.4.1	Key Developments	44
3.4.2	Demand.....	44



3.4.3	Supply	45
3.4.4	Supply, Demand and Trade	46
3.5	Central Europe	48
3.5.1	Key Developments	48
3.5.2	Demand	48
3.5.3	Supply	48
3.5.4	Supply, Trade and Demand	49
3.6	Eastern Europe	50
3.6.1	Key Developments	50
3.6.1.1	Russia	50
3.6.1.2	Other Eastern Europe	50
3.6.2	Demand	50
3.6.2.1	Russia	50
3.6.2.2	Other Eastern Europe	51
3.6.3	Supply	52
3.6.3.1	Russia	52
3.6.3.2	Other Eastern Europe	52
3.6.4	Supply, Demand and Trade	52
3.6.4.1	Russia	52
3.6.4.2	Other Eastern Europe	54
3.7	Middle East.....	56
3.7.1	Key Developments	56
3.7.2	Demand	56
3.7.3	Supply	58
3.7.4	Supply, Demand and Trade	59
3.8	Africa	61
3.8.1	Key Developments	61
3.8.2	Demand	61
3.8.3	Supply	61
3.8.4	Supply, Demand and Trade	62
3.9	Asia Pacific.....	63
3.9.1	Key Developments	63
3.9.2	Demand	64
3.9.2.1	China	65
3.9.2.2	North-East Asia	67
3.9.2.3	South-East Asia	68
3.9.2.4	South Asia	69
3.9.2.5	Pakistan	69
3.9.2.6	Australasia	70
3.9.3	Supply	71
3.9.3.1	China	71
3.9.3.2	North-East Asia	74
3.9.3.3	South-East Asia	75
3.9.3.4	South Asia.....	77



3.9.3.5	Australasia	78
3.9.4	Supply, Demand and Trade	78
3.9.4.1	China	79
3.9.4.2	North-East Asia	80
3.9.4.3	South-East Asia	81
3.9.4.4	South Asia	82
4	Purified Terephthalic Acid	85
4.1	Global	85
4.1.1	Key Developments	85
4.1.2	Demand	85
4.1.3	Supply	89
4.1.4	Supply, Demand and Trade	91
4.2	North America	93
4.2.1	Key Developments	93
4.2.2	Demand	93
4.2.3	Supply	95
4.2.4	Supply, Demand and Trade	95
4.3	South America	98
4.3.1	Key Developments	98
4.3.2	Demand	98
4.3.3	Supply	99
4.3.4	Supply, Demand and Trade	99
4.4	Western Europe	100
4.4.1	Key Developments	100
4.4.2	Demand	100
4.4.3	Supply	101
4.4.4	Supply, Demand and Trade	102
4.5	Central Europe	104
4.5.1	Key Developments	104
4.5.2	Demand	104
4.5.3	Supply	104
4.5.4	Supply, Demand and Trade	105
4.6	Eastern Europe	106
4.6.1	Key Developments	106
4.6.2	Demand	106
4.6.2.1	Russia	106
4.6.2.2	Other Eastern Europe	107
4.6.3	Supply	107
4.6.3.1	Russia	107
4.6.3.2	Other Eastern Europe	107
4.6.4	Supply, Demand and Trade	107
4.6.4.1	Russia	107
4.6.4.2	Other Eastern Europe	109
4.7	Middle East	111



4.7.1	Key Developments	111
4.7.2	Demand	111
4.7.3	Supply	113
4.7.4	Supply, Demand and Trade	114
4.8	Africa	115
4.8.1	Key Developments	115
4.8.2	Demand	115
4.8.3	Supply	116
4.8.4	Supply, Demand and Trade	116
4.9	Asia Pacific	118
4.9.1	Key Developments	118
4.9.2	Demand	118
4.9.2.1	China	119
4.9.2.2	North-East Asia	121
4.9.2.3	South-East Asia	121
4.9.2.4	South Asia	122
4.9.2.5	Australasia	123
4.9.3	Supply	124
4.9.3.1	China	124
4.9.3.2	North-East Asia	127
4.9.3.3	South-East Asia	128
4.9.3.4	South Asia	128
4.9.3.5	Australasia	129
4.9.4	Supply, Demand and Trade	129
4.9.4.1	China	130
5	Dimethyl Terephthalate	132
5.1	Global	132
5.1.1	Key Developments	132
5.1.2	Consumption	132
5.1.3	Supply	134
5.1.4	Supply and Demand	135
6	Ethylene Oxide	137
6.1	Global	137
6.1.1	Key Developments	137
6.1.2	Demand	137
6.1.3	Supply	141
6.1.4	Supply, Demand and Trade	143
6.2	North America	145
6.2.1	Key Developments	145
6.2.2	Demand	145
6.2.3	Supply	148
6.2.4	Supply, Demand and Trade	150
6.3	South America	152



6.3.1	Key Developments	152
6.3.2	Demand	152
6.3.3	Supply	154
6.3.4	Supply, Demand and Trade	154
6.4	Western Europe	156
6.4.1	Key Developments	156
6.4.2	Demand	156
6.4.3	Supply	159
6.4.4	Supply, Demand and Trade	160
6.5	Central Europe	161
6.5.1	Key Developments	161
6.5.2	Demand	161
6.5.3	Supply	162
6.5.4	Supply, Demand and Trade	162
6.6	Eastern Europe	164
6.6.1	Key Developments	164
6.6.2	Demand	164
6.6.2.1	Russia	164
6.6.2.2	Other Eastern Europe	165
6.6.3	Supply	165
6.6.3.1	Russia	165
6.6.3.2	Other Eastern Europe	166
6.6.4	Supply, Demand and Trade	166
6.6.4.1	Russia	166
6.7	Middle East.....	169
6.7.1	Key Developments	169
6.7.2	Demand	169
6.7.3	Supply	170
6.7.4	Supply, Demand and Trade	171
6.8	Africa	172
6.8.1	Key Developments	172
6.8.2	Demand	172
6.8.3	Supply	172
6.8.4	Supply, Demand and Trade	173
6.9	Asia Pacific.....	174
6.9.1	Key Developments	174
6.9.2	Demand	174
6.9.2.1	China.....	174
6.9.2.2	North-East Asia	176
6.9.2.3	South-East Asia	177
6.9.2.4	South Asia.....	178
6.9.2.5	Australasia	179
6.9.3	Supply	181
6.9.3.1	China.....	181



	6.9.3.2	North-East Asia	182
	6.9.3.3	South-East Asia	183
	6.9.3.4	South Asia.....	183
	6.9.3.5	Australasia	183
	6.9.4	Supply, Demand and Trade	184
7	Mono Ethylene Glycol.....	186	
7.1	Global	186	
	7.1.1	Key Developments	186
	7.1.2	Demand.....	186
	7.1.3	Supply	190
	7.1.4	Supply, Demand and Trade	192
7.2	North America	194	
	7.2.1	Key Developments	194
	7.2.2	Demand.....	194
	7.2.3	Supply	196
	7.2.4	Supply, Demand and Trade	197
7.3	South America.....	200	
	7.3.1	Key Developments	200
	7.3.2	Demand.....	200
	7.3.3	Supply	202
	7.3.4	Supply, Demand and Trade	202
7.4	Western Europe	204	
	7.4.1	Key Developments	204
	7.4.2	Demand.....	204
	7.4.3	Supply	205
	7.4.4	Supply, Demand and Trade	206
7.5	Central Europe	208	
	7.5.1	Key Developments	208
	7.5.2	Demand.....	208
	7.5.3	Supply	209
	7.5.4	Supply, Demand and Trade	209
7.6	Eastern Europe	210	
	7.6.1	Key Developments	210
	7.6.2	Demand.....	210
	7.6.2.1	Russia	210
	7.6.2.2	Other Eastern Europe	211
	7.6.3	Supply	212
	7.6.3.1	Russia	212
	7.6.3.2	Other Eastern Europe	212
	7.6.4	Supply, Demand and Trade	213
	7.6.4.1	Russia	213
	7.6.4.2	Other Eastern Europe	214
7.7	Middle East.....	216	
	7.7.1	Key Developments	216



7.7.2	Demand	216
7.7.3	Supply	218
7.7.4	Supply, Demand and Trade	219
7.8	Africa	221
7.8.1	Key Developments	221
7.8.2	Demand	221
7.8.3	Supply	222
7.8.4	Supply, Demand and Trade	223
7.9	Asia Pacific	224
7.9.1	Key Developments	224
7.9.2	Demand	224
7.9.2.1	China	225
7.9.2.2	North-East Asia	226
7.9.2.3	South-East Asia	226
7.9.2.4	South Asia	226
7.9.2.5	Australasia	226
7.9.3	Supply	228
7.9.3.1	China	228
7.9.3.2	North-East Asia	229
7.9.3.3	South-East Asia	230
7.9.3.4	South Asia	230
7.9.3.5	Australasia	230
7.9.4	Supply, Demand and Trade	231
8	PET Melt Phase	235
8.1	Global	235
8.1.1	Key Developments	235
8.1.2	Demand	235
8.1.3	Supply	240
8.1.4	Supply, Demand and Trade	243
8.2	North America	245
8.2.1	Key Developments	245
8.2.2	Demand	245
8.2.3	Supply	248
8.2.4	Supply, Demand and Trade	248
8.3	South America	251
8.3.1	Key Developments	251
8.3.2	Demand	251
8.3.3	Supply	253
8.3.4	Supply, Demand and Trade	254
8.4	Western Europe	256
8.4.1	Key Developments	256
8.4.2	Demand	256
8.4.3	Supply	258
8.4.4	Supply, Demand and Trade	259



8.5	Central Europe	261
8.5.1	Key Developments	261
8.5.2	Demand	261
8.5.3	Supply	262
8.5.4	Supply, Demand and Trade	263
8.6	Eastern Europe	264
8.6.1	Key Developments	264
8.6.2	Demand	264
8.6.2.1	Russia	264
8.6.2.2	Other Eastern Europe	265
8.6.3	Supply	267
8.6.3.1	Russia	267
8.6.3.2	Other Eastern Europe	267
8.6.4	Supply, Demand and Trade	268
8.6.4.1	Russia	268
8.6.4.2	Other Eastern Europe	269
8.7	Middle East	271
8.7.1	Key Developments	271
8.7.2	Demand	271
8.7.3	Supply	273
8.7.4	Supply, Demand and Trade	274
8.8	Africa	275
8.8.1	Key Developments	275
8.8.2	Demand	275
8.8.3	Supply	277
8.8.4	Supply, Demand and Trade	278
8.9	Asia Pacific	279
8.9.1	Key Developments	279
8.9.2	Demand	280
8.9.2.1	China	280
8.9.2.2	North-East Asia	282
8.9.2.3	South-East Asia	282
8.9.2.4	South Asia	283
8.9.2.5	Australasia	284
8.9.3	Supply	286
8.9.3.1	China	286
8.9.3.2	North-East Asia	289
8.9.3.3	South-East Asia	289
8.9.3.4	South Asia	290
8.9.3.5	Australasia	290
8.9.4	Supply, Demand and Trade	291
9	PET Bottle Grade	294
9.1	Global	294
9.1.1	Key Developments	294



9.1.2	Demand	294
9.1.3	Supply	297
9.1.4	Supply, Demand and Trade	300
9.2	North America	302
9.2.1	Key Developments	302
9.2.2	Demand	302
9.2.3	Supply	304
9.2.4	Supply, Demand and Trade	306
9.3	South America	309
9.3.1	Key Developments	309
9.3.2	Demand	309
9.3.3	Supply	310
9.3.4	Supply, Demand and Trade	311
9.4	Western Europe	313
9.4.1	Key Developments	313
9.4.2	Demand	313
9.4.3	Supply	315
9.4.4	Supply, Demand and Trade	316
9.5	Central Europe	319
9.5.1	Key Developments	319
9.5.2	Demand	319
9.5.3	Supply	319
9.5.4	Supply, Demand and Trade	319
9.6	Eastern Europe	321
9.6.1	Key Developments	321
9.6.2	Demand	321
9.6.2.1	Russia	321
9.6.2.2	Other Eastern Europe	322
9.6.3	Supply	323
9.6.3.1	Russia	323
9.6.3.2	Other Eastern Europe	323
9.6.4	Supply, Demand and Trade	324
9.6.4.1	Russia	324
9.6.4.2	Other Eastern Europe	326
9.7	Middle East	328
9.7.1	Key Developments	328
9.7.2	Demand	328
9.7.3	Supply	330
9.7.4	Supply, Demand and Trade	331
9.8	Africa	333
9.8.1	Key Developments	333
9.8.2	Demand	333
9.8.3	Supply	335
9.8.4	Supply, Demand and Trade	336



9.9	Asia Pacific.....	338
9.9.1	Key Developments.....	338
9.9.2	Demand.....	338
9.9.2.1	China.....	338
9.9.2.2	North-East Asia.....	339
9.9.2.3	South-East Asia.....	340
9.9.2.4	South Asia.....	341
9.9.2.5	Australasia.....	342
9.9.3	Supply.....	342
9.9.3.1	North-East Asia.....	344
9.9.3.2	South-East Asia.....	344
9.9.3.3	South Asia.....	345
9.9.3.4	Australasia.....	345
9.9.4	Supply, Demand and Trade.....	345

Appendices

A	Methodology.....	351
A.1	Market Dynamics Forecasting Methodology.....	351
A.1.1	Capacity Availability and Forecasting.....	351
A.1.1	End-Use Consumption Forecasting.....	351
A.1.1.1	End-Use Sector Growth.....	352
A.1.1.2	Penetration (New Application Growth).....	352
A.1.1.3	Short-term Influences.....	353
A.1.2	Monomer Consumption Forecasting.....	353
A.1.3	Production and Trade Forecasting.....	354
B	Technology.....	355
B.1	Purified Terephthalic Acid (PTA).....	355
B.2	Dimethyl Terephthalate (DMT).....	356
B.3	Ethylene Oxide (EO)/Mono Ethylene Oxide (MEG).....	357
B.4	PET Bottle Grade/PET Melt Phase.....	358

Figures

Figure 1	Polyester Chain Molecules.....	24
Figure 2	The Polyester Chain.....	24
Figure 3	Global <i>para</i> -Xylene Demand, 2023-e.....	29
Figure 4	Global GDP Growth vs. <i>para</i> -Xylene Consumption Growth.....	30
Figure 5	Global <i>para</i> -Xylene Consumption by Region.....	30
Figure 6	Global <i>para</i> -Xylene Capacity Share by Marketer in 2023-e.....	32
Figure 7	Global <i>para</i> -Xylene Capacity Additions.....	32
Figure 8	Global <i>para</i> -Xylene Capacity.....	32
Figure 9	Global <i>para</i> -Xylene Supply and Demand.....	34
Figure 10	Global <i>para</i> -Xylene Net Exports(Imports).....	35
Figure 11	North America <i>para</i> -Xylene Consumption, 2023-e.....	37
Figure 12	North America <i>para</i> -Xylene Supply, Demand and Trade.....	40



Figure 13	North America <i>para</i> -Xylene Supply, Demand and Trade	40
Figure 14	United States <i>para</i> -Xylene Supply, Demand and Trade	41
Figure 15	South America <i>para</i> -Xylene Supply, Demand and Trade	43
Figure 16	Western Europe <i>para</i> -Xylene Consumption, 2023-e	45
Figure 17	Western Europe <i>para</i> -Xylene Supply, Demand and Trade	47
Figure 18	Central Europe <i>para</i> -Xylene Supply, Demand and Trade.....	49
Figure 19	Russia <i>para</i> -Xylene Consumption, 2023-e.....	51
Figure 20	Russia <i>para</i> -Xylene Supply, Demand and Trade	53
Figure 21	Other Eastern Europe <i>para</i> -Xylene Supply, Demand and Trade	54
Figure 22	Total Eastern Europe <i>para</i> -Xylene Supply, Demand and Trade	55
Figure 23	Middle East <i>para</i> -Xylene Consumption, 2023-e	57
Figure 24	Middle East <i>para</i> -Xylene Supply, Demand and Trade	60
Figure 25	Africa <i>para</i> -Xylene Supply, Demand and Trade.....	62
Figure 26	Asia Pacific <i>para</i> -Xylene Consumption, 2023-e	70
Figure 27	Asia Pacific <i>para</i> -Xylene Supply, Demand and Trade	83
Figure 28	China <i>para</i> -Xylene Supply, Demand and Trade	84
Figure 29	Global PTA Demand, 2023-e	87
Figure 30	Global GDP Growth vs. PTA Consumption Growth	88
Figure 31	Global PTA Consumption by Region.....	88
Figure 32	Global PTA Capacity Share by Marketer in 2023-e	90
Figure 33	Global PTA Capacity Additions/(Closures).....	90
Figure 34	Global PTA Capacity	90
Figure 35	Global PTA Supply and Demand	92
Figure 36	Global PTA Net Exports(Imports)	92
Figure 37	North America PTA Consumption, 2023-e	94
Figure 38	North America PTA Supply, Demand and Trade	96
Figure 39	United States PTA Supply, Demand and Trade	97
Figure 40	South America PTA Supply, Demand and Trade	99
Figure 41	Western Europe PTA Consumption, 2023-e	101
Figure 42	Western Europe PTA Supply, Demand and Trade	103
Figure 43	Central Europe PTA Consumption, 2023-e	104
Figure 44	Central Europe PTA Supply, Demand and Trade	105
Figure 45	Russia PTA Consumption, 2023-e	106
Figure 46	Russia PTA Supply, Demand and Trade	108
Figure 47	Other Eastern Europe PTA Supply, Demand and Trade	109
Figure 48	Total Eastern Europe PTA Supply, Demand and Trade	110
Figure 49	Middle East PTA Consumption, 2023-e	112
Figure 50	Middle East PTA Supply, Demand and Trade.....	114
Figure 51	Africa PTA Consumption, 2023-e	115
Figure 52	Africa PTA Supply, Demand and Trade	117
Figure 53	Asia Pacific PTA Consumption, 2023-e	123
Figure 54	Asia Pacific PTA Supply, Demand and Trade	130
Figure 55	China PTA Supply, Demand and Trade	131
Figure 56	China PTA Supply, Demand and Trade	131



Figure 57	Global DMT Demand, 2023-e.....	133
Figure 58	Global GDP Growth vs. DMT Consumption Growth	133
Figure 59	Global DMT Consumption by Region	134
Figure 60	Global DMT Capacity Share by Marketer in 2023-e	135
Figure 61	Global DMT Capacity Additions/(Closures)	135
Figure 62	Global DMT Capacity	135
Figure 63	Global DMT Supply and Demand	136
Figure 64	Global DMT Net Exports(Imports)	136
Figure 65	Global Ethylene Oxide Demand, 2023-e	139
Figure 66	Global GDP Growth vs. Ethylene Oxide Consumption Growth.....	139
Figure 67	Global Ethylene Oxide Consumption by Region	140
Figure 68	Global Ethylene Oxide Capacity Share by Marketer, 2023-e.....	141
Figure 69	Global Ethylene Oxide Capacity Additions/(Closures)	142
Figure 70	Global Ethylene Oxide Capacity	142
Figure 71	Global Ethylene Oxide Supply and Demand	143
Figure 72	Global Ethylene Oxide Net Exports(Imports)	144
Figure 73	North America Ethylene Oxide Consumption, 2023-e	147
Figure 74	North America Ethylene Oxide Supply, Demand and Trade	150
Figure 75	United States Ethylene Oxide Supply, Demand and Trade	151
Figure 76	South America Ethylene Oxide Consumption, 2023-e	153
Figure 77	South America Ethylene Oxide Supply, Demand and Trade	155
Figure 78	Western Europe Ethylene Oxide Consumption, 2023-e	158
Figure 79	Western Europe Ethylene Oxide Supply, Demand and Trade	160
Figure 80	Central Europe Ethylene Oxide Consumption, 2023-e	161
Figure 81	Central Europe Ethylene Oxide Supply, Demand and Trade.....	163
Figure 82	Russia Ethylene Oxide Consumption, 2023-e.....	165
Figure 83	Russia Ethylene Oxide Supply, Demand and Trade	166
Figure 84	Other Eastern Europe Ethylene Oxide Supply, Demand and Trade	167
Figure 85	Total Eastern Europe Ethylene Oxide Supply, Demand and Trade	168
Figure 86	Middle East Ethylene Oxide Consumption, 2023-e.....	169
Figure 87	Middle East Ethylene Oxide Supply, Demand and Trade	171
Figure 88	Africa Ethylene Oxide Supply, Demand and Trade.....	173
Figure 89	Asia Pacific Ethylene Oxide Consumption, 2023-e	180
Figure 90	Asia Pacific Ethylene Oxide Supply, Demand and Trade	184
Figure 91	China Ethylene Oxide Supply, Demand and Trade	185
Figure 92	China Ethylene Oxide Supply, Demand and Trade	185
Figure 93	Global MEG Demand, 2023-e	188
Figure 94	Global GDP Growth vs. MEG Consumption Growth	188
Figure 95	Global MEG Consumption by Region	189
Figure 96	Global MEG Capacity Share by Marketer in 2023-e	191
Figure 97	Global MEG Capacity Additions/(Closures)	191
Figure 98	Global MEG Capacity	191
Figure 99	Global MEG Supply and Demand	193
Figure 100	Global MEG Net Exports(Imports).....	193



Figure 101	North America MEG Consumption, 2023-e	195
Figure 102	North America MEG Supply, Demand and Trade	198
Figure 103	United States MEG Supply, Demand and Trade.....	199
Figure 104	South America MEG Consumption, 2023-e	201
Figure 105	South America MEG Supply, Demand and Trade	203
Figure 106	Western Europe MEG Consumption, 2023-e.....	205
Figure 107	Western Europe MEG Supply, Demand and Trade	207
Figure 108	Central Europe MEG Consumption, 2023-e.....	208
Figure 109	Central Europe MEG Supply, Demand and Trade	209
Figure 110	Russia MEG Consumption, 2023-e	211
Figure 111	Other Eastern Europe MEG Consumption, 2023-e.....	212
Figure 112	Russia MEG Supply, Demand and Trade	213
Figure 113	Other Eastern Europe MEG Supply, Demand and Trade	214
Figure 114	Total Eastern Europe MEG Supply, Demand and Trade	215
Figure 115	Middle East MEG Consumption, 2023-e	217
Figure 116	Middle East MEG Supply, Demand and Trade	220
Figure 117	Africa MEG Consumption, 2023-e.....	222
Figure 118	Africa MEG Supply, Demand and Trade	223
Figure 119	Asia Pacific MEG Consumption, 2023-e	227
Figure 120	Asia Pacific MEG Supply, Demand and Trade.....	233
Figure 121	China MEG Supply, Demand and Trade	234
Figure 122	Global PET Melt Phase Demand, 2023-e	238
Figure 123	Global GDP Growth vs. PET Melt Phase Consumption Growth	238
Figure 124	Global PET Melt Phase Consumption by Region	239
Figure 125	Global PET Melt Phase Capacity Share by Marketer in 2023-e	241
Figure 126	Global PET Melt Phase Capacity Additions/(Closures)	241
Figure 127	Global PET Melt Phase Capacity	241
Figure 128	Global PET Melt Phase Supply and Demand	244
Figure 129	Global PET Melt Phase Net Exports(Imports).....	244
Figure 130	North America PET Melt Phase Consumption, 2023-e	247
Figure 131	North America PET Melt Phase Supply, Demand and Trade	249
Figure 132	United States PET Melt Phase Supply, Demand and Trade.....	250
Figure 133	South America PET Melt Phase Consumption, 2023-e	252
Figure 134	South America PET Melt Phase Supply, Demand and Trade.....	255
Figure 135	Western Europe PET Melt Phase Consumption, 2023-e.....	257
Figure 136	Western Europe PET Melt Phase Supply, Demand and Trade	260
Figure 137	Central Europe PET Melt Phase Consumption, 2023-e.....	262
Figure 138	Central Europe PET Melt Phase Supply, Demand and Trade	263
Figure 139	Russia PET Melt Phase Consumption, 2023-e	265
Figure 140	Other Eastern Europe PET Melt Phase Consumption, 2023-e	266
Figure 141	Russia PET Melt Phase Supply, Demand and Trade	268
Figure 142	Other Eastern Europe PET Melt Phase Supply, Demand and Trade	269
Figure 143	Total Eastern Europe PET Melt Phase Supply, Demand and Trade	270
Figure 144	Middle East PET Melt Phase Consumption, 2023-e	272



Figure 145	Middle East PET Melt Phase Supply, Demand and Trade	274
Figure 146	Africa PET Melt Phase Consumption, 2023-e.....	276
Figure 147	Africa PET Melt Phase Supply, Demand and Trade	278
Figure 148	Asia Pacific PET Melt Phase Consumption, 2023-e	285
Figure 149	Asia Pacific PET Melt Phase Supply, Demand and Trade.....	292
Figure 150	China PET Melt Phase Supply, Demand and Trade	293
Figure 151	China PET Melt Phase Supply, Demand and Trade	293
Figure 152	Global GDP Growth vs. PET Bottle Grade Consumption Growth.....	296
Figure 153	Global PET Bottle Grade Consumption by Region	296
Figure 154	Global PET Bottle Grade Capacity Share by Marketer in 2023-e.....	299
Figure 155	Global PET Bottle Grade Capacity Additions/(Closures)	299
Figure 156	Global PET Bottle Grade Capacity	299
Figure 157	Global PET Bottle Grade Supply and Demand	301
Figure 158	Global PET Bottle Grade Net Exports(Imports)	301
Figure 159	North America PET Bottle Grade Supply, Demand and Trade	307
Figure 160	United States PET Bottle Grade Supply, Demand and Trade	308
Figure 161	South America PET Bottle Grade Supply, Demand and Trade	312
Figure 162	Western Europe PET Bottle Grade Supply, Demand and Trade	318
Figure 163	Central Europe PET Bottle Grade Supply, Demand and Trade	320
Figure 164	Russia PET Bottle Grade Supply, Demand and Trade	325
Figure 165	Other Eastern Europe PET Bottle Grade Supply, Demand and Trade	326
Figure 166	Total Eastern Europe PET Bottle Grade Supply, Demand and Trade	327
Figure 167	Middle East PET Bottle Grade Supply, Demand and Trade	332
Figure 168	Africa PET Bottle Grade Supply, Demand and Trade	337
Figure 169	Asia Pacific PET Bottle Grade Supply, Demand and Trade	348
Figure 170	China PET Bottle Grade Supply, Demand and Trade.....	349
Figure 171	China PET Bottle Grade Supply, Demand and Trade.....	349
Figure 172	End-Use Consumption Drivers	352
Figure 173	Monomer Consumption Drivers	353
Figure 174	Trade Considerations	354
Figure 175	PTA Flow Diagram	355
Figure 176	DMT Flow Diagram.....	356
Figure 177	EO/MEG Flow Diagram	357
Figure 178	Polyester Melt Phase Flow Diagram	358
Figure 179	Polyester Melt Phase Flow Diagram	359
Figure 180	Polyester Bottle Grade Flow Diagram	360

Tables

Table 1	Global <i>para</i> -Xylene Consumption by End-Use.....	29
Table 2	Global <i>para</i> -Xylene Consumption by Region	30
Table 3	Global <i>para</i> -Xylene Supply and Demand	34
Table 4	North America <i>para</i> -Xylene Consumption by End-Use	37
Table 5	North America <i>para</i> -Xylene Consumption by Country	37
Table 6	United States <i>para</i> -Xylene Supply, Demand and Trade	41



Table 7	South America <i>para</i> -Xylene Consumption by End-Use	42
Table 8	South American <i>para</i> -Xylene Consumption by Country.....	42
Table 9	South America <i>para</i> -Xylene Supply, Demand and Trade	43
Table 10	Western Europe <i>para</i> -Xylene Consumption by End-Use.....	45
Table 11	Western Europe <i>para</i> -Xylene Supply, Demand and Trade	47
Table 12	Central Europe <i>para</i> -Xylene Consumption by End-Use.....	48
Table 13	Central Europe <i>para</i> -Xylene Supply, Demand and Trade.....	49
Table 14	Russia <i>para</i> -Xylene Consumption by End-Use	51
Table 15	Other Eastern Europe <i>para</i> -Xylene Consumption by End-Use.....	51
Table 16	Russia <i>para</i> -Xylene Supply, Demand and Trade	53
Table 17	Other Eastern Europe <i>para</i> -Xylene Supply, Demand and Trade.....	54
Table 18	Total Eastern Europe <i>para</i> -Xylene Supply, Demand and Trade.....	55
Table 19	Middle East <i>para</i> -Xylene Consumption by End-Use	57
Table 20	Middle East <i>para</i> -Xylene Consumption by Country	57
Table 21	Middle East <i>para</i> -Xylene Supply, Demand and Trade	60
Table 22	Africa <i>para</i> -Xylene Supply, Demand and Trade.....	62
Table 23	Asia Pacific <i>para</i> -Xylene Consumption by End-Use	70
Table 24	Asia Pacific <i>para</i> -Xylene Consumption by Country.....	70
Table 25	Asia Pacific <i>para</i> -Xylene Supply, Demand and Trade	83
Table 26	China <i>para</i> -Xylene Supply, Demand and Trade	84
Table 27	Global PTA Consumption by Derivative	87
Table 28	Global PTA Consumption by Region.....	88
Table 29	Global PTA Supply and Demand	92
Table 30	North America PTA Consumption by Derivative	94
Table 31	North America PTA Consumption by Country.....	94
Table 32	North America PTA Supply, Demand and Trade	96
Table 33	United States PTA Supply, Demand and Trade.....	97
Table 34	South America PTA Consumption by Derivative.....	98
Table 35	South America PTA Consumption by Country	98
Table 36	South America PTA Supply, Demand and Trade.....	99
Table 37	Western Europe PTA Consumption by Derivative	101
Table 38	Western Europe PTA Supply, Demand and Trade	103
Table 39	Central Europe PTA Consumption by Derivative	104
Table 40	Central Europe PTA Supply, Demand and Trade	105
Table 41	Russian PTA Consumption	106
Table 42	Other Eastern Europe PTA Consumption	107
Table 43	Russia PTA Supply, Demand and Trade	108
Table 44	Other Eastern Europe PTA Supply, Demand and Trade	109
Table 45	Total Eastern Europe PTA Supply, Demand and Trade	110
Table 46	Middle East PTA Consumption by Derivative.....	112
Table 47	Middle East PTA Consumption by Country	112
Table 48	Middle East PTA Supply, Demand and Trade.....	114
Table 49	African PTA Consumption by Derivative	115
Table 50	African PTA Consumption by Country.....	116



Table 51	Africa PTA Supply, Demand and Trade	117
Table 52	Asia Pacific PTA Consumption by Derivative	123
Table 53	Asia Pacific PTA Consumption by Country	123
Table 54	Asia Pacific PTA Supply, Demand and Trade	130
Table 55	Global DMT Consumption by Derivative	133
Table 56	Global DMT Consumption by Region	134
Table 57	Global DMT Supply and Demand	136
Table 58	Global Ethylene Oxide Consumption by Derivative	139
Table 59	Global Ethylene Oxide Consumption by Region	140
Table 60	Global Ethylene Oxide Supply and Demand	143
Table 61	North America Ethylene Oxide Consumption by Derivative	147
Table 62	North America Ethylene Oxide Consumption by Country	147
Table 63	North America Ethylene Oxide Supply, Demand and Trade	150
Table 64	United States Ethylene Oxide Supply, Demand and Trade	151
Table 65	South America Ethylene Oxide Consumption by Derivative	153
Table 66	South America Ethylene Oxide Consumption by Country	153
Table 67	South America Ethylene Oxide Supply, Demand and Trade	155
Table 68	Western Europe Ethylene Oxide Consumption by Derivative	158
Table 69	Western Europe Ethylene Oxide Supply, Demand and Trade	160
Table 70	Central Europe Ethylene Oxide Consumption by Derivative	161
Table 71	Central Europe Ethylene Oxide Supply, Demand and Trade	163
Table 72	Russian Ethylene Oxide Consumption	165
Table 73	Russia Ethylene Oxide Supply, Demand and Trade	166
Table 74	Other Eastern Europe Ethylene Oxide Supply, Demand and Trade	167
Table 75	Total Eastern Europe Ethylene Oxide Supply, Demand and Trade	168
Table 76	Middle East Ethylene Oxide Consumption by Derivative	170
Table 77	Middle East Ethylene Oxide Consumption by Country	170
Table 78	Middle East Ethylene Oxide Supply, Demand and Trade	171
Table 79	African Ethylene Oxide Consumption by Derivative	172
Table 80	African Ethylene Oxide Consumption by Country	172
Table 81	Africa Ethylene Oxide Supply, Demand and Trade	173
Table 82	Asia Pacific Ethylene Oxide Consumption by Derivative	180
Table 83	Asia Pacific Ethylene Oxide Consumption by Country	180
Table 84	Asia Pacific Ethylene Oxide Supply, Demand and Trade	184
Table 85	Global MEG Consumption by End-Use	188
Table 86	Global MEG Consumption by Region	189
Table 87	Global MEG Supply and Demand	193
Table 88	North America MEG Consumption by End-Use	195
Table 89	North America MEG Consumption by Country	195
Table 90	North America MEG Supply, Demand and Trade	198
Table 91	United States MEG Supply, Demand and Trade	199
Table 92	South America MEG Consumption by End-Use	201
Table 93	South America MEG Consumption by Country	201
Table 94	South America MEG Supply, Demand and Trade	203



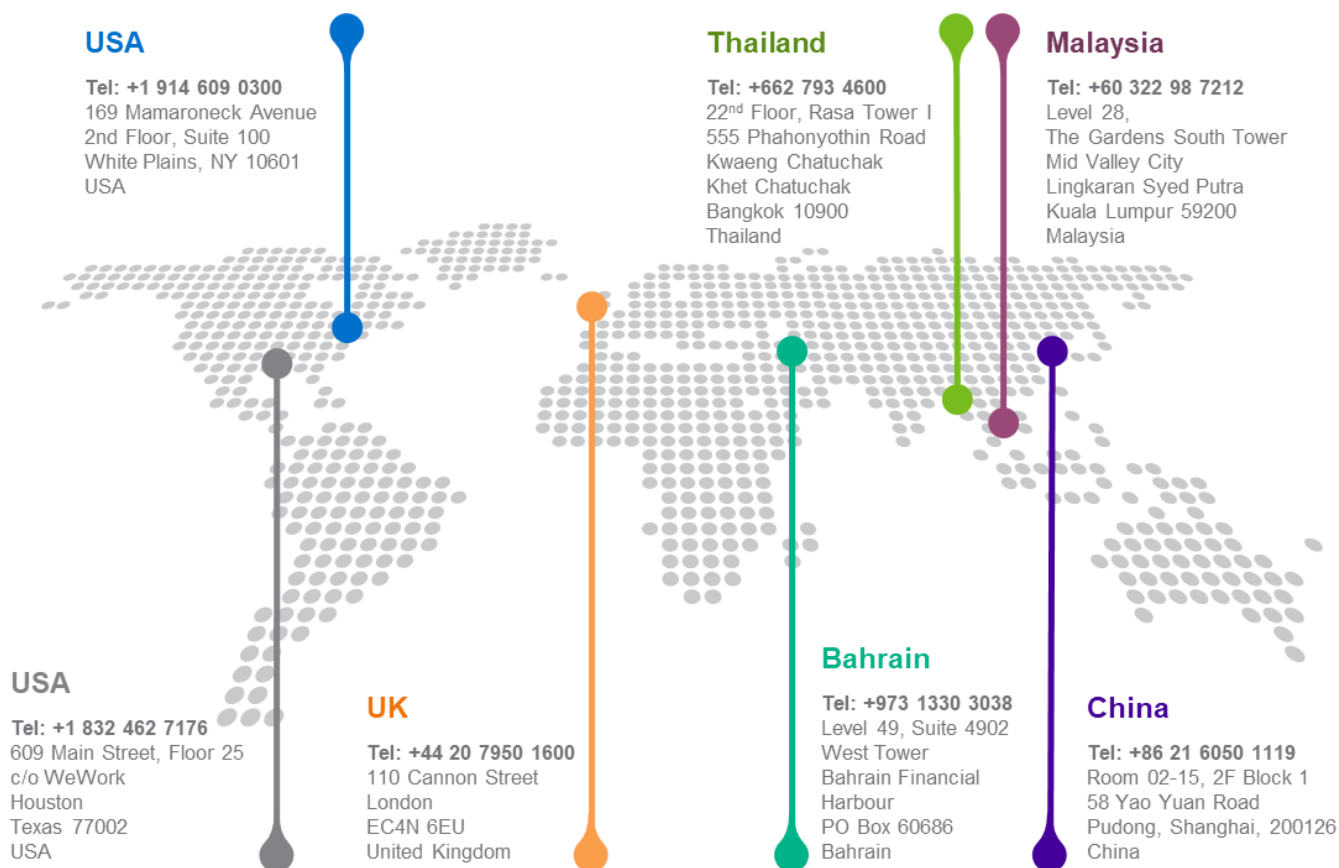
Table 95	Western Europe MEG Consumption by End-Use	205
Table 96	Western Europe MEG Supply, Demand and Trade	207
Table 97	Central Europe MEG Consumption by End-Use	208
Table 98	Central Europe MEG Supply, Demand and Trade	209
Table 99	Russia MEG Consumption by End-Use	211
Table 100	Other Eastern Europe MEG Consumption by End-Use	212
Table 101	Russia MEG Supply, Demand and Trade	213
Table 102	Other Eastern Europe MEG Supply, Demand and Trade	214
Table 103	Total Eastern Europe MEG Supply, Demand and Trade	215
Table 104	Middle East MEG Consumption by End-Use	217
Table 105	Middle East MEG Consumption by Country	217
Table 106	Middle East MEG Supply, Demand and Trade	220
Table 107	African MEG Consumption by End-Use	222
Table 108	African MEG Consumption by Country	222
Table 109	Africa MEG Supply, Demand and Trade	223
Table 110	Asia Pacific MEG Consumption by End-Use	227
Table 111	Asia Pacific MEG Consumption by Country	227
Table 112	Asia Pacific MEG Supply, Demand and Trade	233
Table 113	China MEG Supply, Demand and Trade	234
Table 114	Global PET Melt Phase Consumption by End-Use	238
Table 115	Global PET Melt Phase Consumption by Region	239
Table 116	Global PET Melt Phase Supply and Demand	244
Table 117	North America PET Melt Phase Consumption by End-Use	247
Table 118	North America PET Melt Phase Consumption by Country	247
Table 119	North America PET Melt Phase Supply, Demand and Trade	249
Table 120	United States PET Melt Phase Supply, Demand and Trade	250
Table 121	South America PET Melt Phase Consumption by End-Use	252
Table 122	South America PET Melt Phase Consumption by Country	252
Table 123	South America PET Melt Phase Supply, Demand and Trade	255
Table 124	Western Europe PET Melt Phase Consumption by End-Use	257
Table 125	Western Europe PET Melt Phase Supply, Demand and Trade	260
Table 126	Central Europe PET Melt Phase Consumption by End-Use	262
Table 127	Central Europe PET Melt Phase Supply, Demand and Trade	263
Table 128	Russian PET Melt Phase Consumption by End-Use	265
Table 129	Other Eastern Europe PET Melt Phase Consumption by End-Use	266
Table 130	Russia PET Melt Phase Supply, Demand and Trade	268
Table 131	Other Eastern Europe PET Melt Phase Supply, Demand and Trade	269
Table 132	Total Eastern Europe PET Melt Phase Supply, Demand and Trade	270
Table 133	Middle East PET Melt Phase Consumption by End-Use	272
Table 134	Middle East PET Melt Phase Consumption by Country	272
Table 135	Middle East PET Melt Phase Supply, Demand and Trade	274
Table 136	African PET Melt Phase Consumption by End-Use	276
Table 137	African PET Melt Phase Consumption by Country	276
Table 138	Africa PET Melt Phase Supply, Demand and Trade	278



Table 139	Asia Pacific PET Melt Phase Consumption by End-Use.....	285
Table 140	Asia Pacific PET Melt Phase Consumption by Country	285
Table 141	Year-end Capacity of the Leading Polyester Producing Enterprises	288
Table 142	Asia Pacific PET Melt Phase Supply, Demand and Trade.....	292
Table 143	Global PET Bottle Grade Consumption.....	296
Table 144	Global PET Bottle Grade Consumption by Region	297
Table 145	Global PET Bottle Grade Supply and Demand	301
Table 146	North America PET Bottle Grade Consumption	303
Table 147	North America PET Bottle Grade Consumption by Country	303
Table 148	North America PET Bottle Grade Supply, Demand and Trade	307
Table 149	United States PET Bottle Grade Supply, Demand and Trade	308
Table 150	South America PET Bottle Grade Consumption	309
Table 151	South America PET Bottle Grade Consumption by Country	310
Table 152	South America PET Bottle Grade Supply, Demand and Trade	312
Table 153	Western Europe PET Bottle Grade Consumption	315
Table 154	Western Europe PET Bottle Grade Supply, Demand and Trade	318
Table 155	Central Europe PET Bottle Grade Consumption.....	319
Table 156	Central Europe PET Bottle Grade Supply, Demand and Trade.....	320
Table 157	Russian PET Bottle Grade Consumption	322
Table 158	Other Eastern Europe PET Bottle Grade Consumption.....	323
Table 159	Russia PET Bottle Grade Supply, Demand and Trade	325
Table 160	Other Eastern Europe PET Bottle Grade Supply, Demand and Trade	326
Table 161	Total Eastern Europe PET Bottle Grade Supply, Demand and Trade	327
Table 162	Middle East PET Bottle Grade Consumption	329
Table 163	Middle East PET Bottle Grade Consumption by Country.....	329
Table 164	Middle East PET Bottle Grade Supply, Demand and Trade	332
Table 165	Africa PET Bottle Grade Consumption.....	334
Table 166	Africa PET Bottle Grade Consumption by Country	334
Table 167	Africa PET Bottle Grade Supply, Demand and Trade	337
Table 168	Asia Pacific PET Bottle Grade Consumption	342
Table 169	Asia Pacific PET Bottle Grade Consumption by Country	342
Table 170	Asia Pacific PET Bottle Grade Supply, Demand and Trade	348



NexantECA partners with clients to help them navigate the big global energy, chemicals and materials issues of tomorrow. We provide independent advice through our consulting, subscriptions and reports, and training businesses using expertise developed in markets, economics and technology through our fifty years of operation. We are entirely dedicated to supporting sustainable development of the industry and provide expert advice with efficiency, speed, and agility.



Disclaimer

This Report was prepared by NexantECA, the Energy and Chemicals Advisory company. Except where specifically stated otherwise in this Report, the information contained here is prepared on the basis of information that is publicly available, and contains no confidential third-party technical information to the best knowledge of NexantECA. Aforesaid information has not been independently verified or otherwise examined to determine its accuracy, completeness or financial feasibility. Neither NexantECA, Client nor any person acting on behalf of either assumes any liabilities with respect to the use of or for damages resulting from the use of any information contained in this Report. NexantECA does not represent or warrant that any assumed conditions will come to pass.

Copyright © by NexantECA (BVI) Ltd. 2024. All rights reserved.