

# THE GLOBAL MARKET FOR ALTERNATIVE FUELS FOR COMMERCIAL VEHICLES



ENV033A  
April 2016

Jon Gabrielsen  
*Project Analyst*

ISBN: 1-62296-278-8



**BCC Research**  
49 Walnut Park, Building 2  
Wellesley, MA 02481 USA  
866-285-7215 (toll-free within the USA),  
or (+1) 781-489-7301  
[www.bccresearch.com](http://www.bccresearch.com)  
[information@bccresearch.com](mailto:information@bccresearch.com)

## TABLE OF CONTENTS

TOPIC	PAGE NO.
CHAPTER 1 INTRODUCTION	2
STUDY GOALS AND OBJECTIVES	2
REASONS FOR DOING THE STUDY	2
INTENDED AUDIENCE	3
SCOPE OF REPORT	3
METHODOLOGY FOR THE DEVELOPMENT OF MARKET SIZING AND GROWTH PROJECTIONS	4
ANALYST'S CREDENTIALS	4
RELATED BCC RESEARCH REPORTS	5
BCC RESEARCH WEBSITE	5
DISCLAIMER	5
ACRONYMS	5
CHAPTER 2 SUMMARY	8
<i>SUMMARY TABLE GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)</i>	8
<i>SUMMARY FIGURE GLOBAL MARKET FOR ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, 2014-2020 (\$ MILLIONS)</i>	8
CHAPTER 3 OVERVIEW	12
INTRODUCTION	12
HISTORICAL AND CURRENTLY DOMINANT FUELS	15
EARLY FUELS AT THE DAWN OF THE INTERNAL COMBUSTION AGE	15
CURRENTLY DOMINANT FUELS	15
Gasoline	16
Feedstock	16
Fuel Production Process	16
<i>FIGURE 1 GASOLINE PRODUCTION PROCESS</i>	16
Efficiency from Well to Vehicle Tank	17
Fuel State	17
Volume	17
Weight	17
Distribution Network	18
<i>FIGURE 2 GASOLINE DISTRIBUTION NETWORK</i>	18
Diesel	19
Feedstock	19
Fuel Production Process	19
<i>FIGURE 3 DIESEL PRODUCTION PROCESS</i>	19
Efficiency from Well to Vehicle Tank	20
Fuel State	20
Volume	20
Weight	20
Distribution Network	21
<i>FIGURE 4 DIESEL DISTRIBUTION NETWORK</i>	21

<b>TOPIC</b>	<b>PAGE NO.</b>
Summary of Currently Dominant Fuels	21
<b>ALTERNATIVE FUELS</b>	22
<b>ALTERNATIVE FUEL FEEDSTOCKS</b>	26
<b>LIQUIDS</b>	26
Methanol	26
Feedstock	27
Fuel Production Process	28
<i>FIGURE 5 METHANOL PRODUCTION PROCESS</i>	28
Efficiency from Well to Vehicle Tank	28
Fuel State	29
Volume	29
Weight	29
Distribution Network	29
<i>FIGURE 6 METHANOL FUEL DISTRIBUTION NETWORK</i>	30
Fuel Blends, Performance and Tradeoffs	30
<i>TABLE 1 METHANOL FUEL BLENDS, PERFORMANCE AND TRADEOFFS</i>	31
Summary	32
<i>TABLE 2 SUMMARY OF METHANOL</i>	32
Ethanol	32
Feedstocks	33
Fuel Production Process and Efficiency from Crop to Vehicle Tank	33
<i>FIGURE 7 ETHANOL PRODUCTION PROCESS</i>	34
Ethanol from Sugarcane Biomass	34
Efficiency from Crop to Vehicle Tank (middle)	34
Ethanol from Corn Biomass	35
Efficiency from Crop to Vehicle Tank	35
Ethanol from Natural Gas	35
Efficiency from Well to Vehicle Tank	35
Ethanol from Coal.	35
Efficiency from Mine to Vehicle Tank	36
Fuel State	36
Volume	36
Weight	36
Distribution Network	37
<i>FIGURE 8 ETHANOL FUEL DISTRIBUTION NETWORK</i>	37
Fuel Blends, Performance and Tradeoffs	38
<i>TABLE 3 ETHANOL FUEL BLENDS, PERFORMANCE AND TRADEOFFS</i>	38
Summary	39
<i>TABLE 4 SUMMARY OF ETHANOL</i>	39
Biodiesel	40
Feedstock	40
Fuel Production Process	40
<i>FIGURE 9 BIODIESEL PRODUCTION PROCESS</i>	40
Efficiency from Crop to Vehicle Tank	41
Fuel State	41
Comparison of Production Processes from Fossil Fuel and Bio Diesel Fuels	42

<b>TOPIC</b>	<b>PAGE NO.</b>
<i>FIGURE 10 COMPARISON OF FOSSIL FUEL DIESEL AND BIODIESEL FUEL PRODUCTION PROCESSING</i>	42
Volume	43
Weight	43
Distribution Network	43
<i>FIGURE 11 BIODIESEL DISTRIBUTION NETWORK</i>	43
Fuel Blends, Performance, and Tradeoffs	44
Summary	44
<i>TABLE 5 SUMMARY OF BIODIESEL</i>	44
GASES	45
Compressed Natural Gas (CNG)	45
Feedstock	46
Fuel Production Process	46
<i>FIGURE 12 CNG PRODUCTION PROCESS</i>	46
Efficiency from Well to Vehicle Tank	46
Fuel State	47
Volume	47
Weight	47
Distribution Network	47
Fuel Blends, Performance and Tradeoffs	47
<i>TABLE 6 CNG FUEL BLENDS, PERFORMANCE AND TRADEOFFS</i>	48
Summary	49
<i>TABLE 7 SUMMARY OF CNG</i>	49
Liquid Natural Gas (LNG)	49
Feedstock to Fuel	50
Fuel Production Process	50
<i>FIGURE 13 LNG PRODUCTION PROCESS</i>	50
Efficiency from Well to Vehicle Tank	51
Fuel State	51
Volume	52
Weight	52
Distribution Network	52
<i>FIGURE 14 LNG DISTRIBUTION NETWORK</i>	52
Fuel Blends, Performance and Tradeoffs	53
<i>TABLE 8 LNG FUEL BLENDS, PERFORMANCE AND TRADEOFFS</i>	54
Summary	54
<i>TABLE 9 SUMMARY OF LNG</i>	54
Liquid Petroleum Gas (LPG, "Autogas")	55
Feedstock	55
Fuel Production Process	55
<i>FIGURE 15 LPG PRODUCTION PROCESS</i>	56
Efficiency from Well to Vehicle Tank	56
Fuel State	56
Volume	57
Weight	57
Distribution Network	57
<i>FIGURE 16 LPG DISTRIBUTION NETWORK</i>	57
Fuel Blends, Performance, and Tradeoffs	58

<b>TOPIC</b>	<b>PAGE NO.</b>
<i>TABLE 10 LPG FUEL BLENDS, PERFORMANCE AND TRADEOFFS</i>	58
Summary	59
<i>TABLE 11 SUMMARY OF LPG</i>	59
Dimethyl Ether	59
Feedstock	60
Fuel Production Process and Efficiency from Well or Pulp Mill to Vehicle Tank	60
<i>FIGURE 17 DME PRODUCTION PROCESS</i>	60
DME from Natural Gas (Methane)	61
DME from Black Liquor	61
Fuel State	61
Volume	62
Weight	62
Distribution Network	62
<i>FIGURE 18 DME DISTRIBUTION NETWORK</i>	62
Fuel Blends, Performance and Tradeoffs	63
<i>TABLE 12 DME FUEL BLENDS, PERFORMANCE AND TRADEOFFS</i>	63
Summary	64
<i>TABLE 13 SUMMARY OF DME</i>	64
Renewable Natural Gas (Biomethane)	65
Feedstock	65
Fuel Production Process and Efficiency from Biomass Source to Vehicle Tank	65
<i>FIGURE 19 BIOMETHANE PRODUCTION PROCESS</i>	65
Biomethane from Semi-Liquid Biomass	66
Efficiency from Biomass Tank to Vehicle Tank	66
Biomethane from Solid Landfill Biomass	67
Fuel State	67
Volume	67
Weight	67
Distribution Network	68
Blends	68
Performance Differences	68
Summary	68
<i>TABLE 14 SUMMARY OF BIOMETHANE</i>	68
Hydrogen	69
Feedstock	69
Fuel Production Process	69
<i>FIGURE 20 HYDROGEN PRODUCTION PROCESS</i>	70
Efficiency from Well to Vehicle Tank	70
Fuel State	71
Volume	71
Weight	71
Distribution Network	71
<i>FIGURE 21 HYDROGEN DISTRIBUTION NETWORK</i>	72
Fuel Blends, Performance and Tradeoffs	72
<i>TABLE 15 HYDROGEN FUEL BLENDS, PERFORMANCE AND TRADEOFFS</i>	72
Summary	73

<b>TOPIC</b>	<b>PAGE NO.</b>
<i>TABLE 16 SUMMARY OF HYDROGEN</i>	73
Hythane	73
Feedstock	74
Hythane Production Process	74
<i>FIGURE 22 HYTHANE PRODUCTION PROCESS</i>	74
Efficiency from Well to Vehicle Tank	75
Fuel State	75
Volume	75
Weight	75
Distribution Network	75
<i>FIGURE 23 HYTHANE DISTRIBUTION NETWORK</i>	75
Fuel Blends, Performance and Tradeoffs	76
<i>TABLE 17 HYTHANE FUEL BLENDS, PERFORMANCE AND TRADEOFFS</i>	76
Summary	77
<i>TABLE 18 SUMMARY OF HYTHANE</i>	77
<b>CHAPTER 4 REQUISITE ENABLING SYSTEMS FOR EACH ALTERNATIVE FUEL</b>	79
<b>INTRODUCTION AND OBJECTIVES</b>	79
<b>THE THREE MAJOR FUEL SYSTEM APPROACHES BY COMBUSTION IGNITION METHOD</b>	79
FUEL ADDITIVES (FOR LIQUID ALTERNATIVE FUELS)	80
SPARK PLUG OR GLOW PLUG IGNITION	80
PILOT INJECTION WITH HIGH PRESSURE DIRECT INJECTION (HPDI)	80
DUAL FUEL	81
<b>COMPONENT PORTIONS ACROSS ALL ALTERNATIVE FUELS</b>	82
ONBOARD VEHICLE	82
STATIONARY SUPPORT EQUIPMENT	82
<b>METHANOL</b>	83
ONBOARD VEHICLE	83
<i>FIGURE 24 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR METHANOL FUEL</i>	83
STATIONARY SUPPORT EQUIPMENT	84
<b>ETHANOL</b>	84
ONBOARD VEHICLE	84
<i>FIGURE 25 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR ETHANOL FUEL</i>	84
STATIONARY SUPPORT EQUIPMENT	84
<b>BIODIESEL</b>	84
<b>COMPRESSED NATURAL GAS (CNG)</b>	85
ONBOARD VEHICLE	85
<i>FIGURE 26 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR CNG FUEL</i>	85
STATIONARY SUPPORT EQUIPMENT	86
<i>FIGURE 27 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF CNG-FUELED COMMERCIAL VEHICLES</i>	86
<b>LIQUEFIED NATURAL GAS (LNG)</b>	87
ONBOARD VEHICLE	87
<i>FIGURE 28 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR LNG FUEL</i>	87

<b>TOPIC</b>	<b>PAGE NO.</b>
STATIONARY SUPPORT EQUIPMENT	88
<i>FIGURE 29 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF LNG-FUELED COMMERCIAL VEHICLES</i>	88
LIQUID PROPANE GAS (LPG)	89
ONBOARD VEHICLE	89
<i>FIGURE 30 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR LPG (AUTOGAS) FUEL</i>	89
STATIONARY SUPPORT EQUIPMENT	90
<i>FIGURE 31 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF LPG (AUTOGAS)-FUELED COMMERCIAL VEHICLES</i>	90
DIMETHYL ETHER (DME)	91
ONBOARD VEHICLE	91
<i>FIGURE 32 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR DME FUEL</i>	91
STATIONARY SUPPORT EQUIPMENT	92
<i>FIGURE 33 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF DME-FUELED COMMERCIAL VEHICLES</i>	92
COMPRESSED HYDROGEN	92
ONBOARD VEHICLE	92
<i>FIGURE 34 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR COMPRESSED HYDROGEN FUEL</i>	92
STATIONARY SUPPORT EQUIPMENT	93
<i>FIGURE 35 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF COMPRESSED HYDROGEN-FUELED COMMERCIAL VEHICLES</i>	93
LIQUEFIED HYDROGEN	94
ONBOARD VEHICLE	94
<i>FIGURE 36 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR LIQUEFIED HYDROGEN FUEL</i>	94
STATIONARY SUPPORT EQUIPMENT	95
<i>FIGURE 37 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF LIQUEFIED HYDROGEN-FUELED COMMERCIAL VEHICLES</i>	95
HYTHANE	96
ONBOARD VEHICLE	96
<i>FIGURE 38 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR COMPRESSED HYTHANE FUEL</i>	96
CHAPTER 5 BUSINESS CASE ECONOMICS BY FUEL TYPE BY REGION	98
INTRODUCTION	98
EXAMPLE	99
<i>FIGURE 39 EXAMPLE OF THREE-YEAR PAYBACK RELATIONSHIP BETWEEN DIESEL/OIL PRICES AND AN ALTERNATIVE FUEL PRICE FOR A SPECIFIC REGION (\$, \$/DGE, MILES/YEAR)</i>	99
NORTH AMERICA	101
<i>FIGURE 40 NORTH AMERICAN BREAKEVEN PRICES FOR EACH ALTERNATIVE FUEL PER DIESEL GALLON EQUIVALENT (DGE) (\$)</i>	101
LATIN AMERICA	103
<i>FIGURE 41 LATIN AMERICAN BREAKEVEN PRICES FOR EACH ALTERNATIVE FUEL PER DIESEL GALLON EQUIVALENT (DGE) (\$)</i>	103
EMEA	104

<b>TOPIC</b>	<b>PAGE NO.</b>
<i>FIGURE 42 EUROPEAN, MIDDLE EASTERN AND AFRICAN BREAKEVEN PRICES FOR EACH ALTERNATIVE FUEL PER DIESEL GALLON EQUIVALENT (DGE) (\$)</i>	104
ASIA-PACIFIC	106
<i>FIGURE 43 ASIA-PACIFIC BREAKEVEN PRICES FOR EACH ALTERNATIVE FUEL PER DIESEL GALLON EQUIVALENT (DGE) (\$)</i>	106
CHAPTER 6 COMMERCIAL VEHICLE INSTALLED BASE HISTORY AND FORECASTS BY REGION, BY VEHICLE CLASS, BY ALTERNATIVE FUEL	109
INTRODUCTION AND OVERVIEW	109
<i>TABLE 19 COMPARISON OF THE GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	110
<i>TABLE 20 COMPARISON OF THE INSTALLED BASES OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES BY REGION WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	111
<i>TABLE 21 COMPARISON OF THE GLOBAL INSTALLED BASES OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES BY CLASS WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	112
BASE CASE SCENARIO -LONG-TERM OIL PRICE AT \$80 PER BARREL	113
<i>TABLE 22 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL (THOUSANDS UNITS)</i>	113
<i>TABLE 23 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	113
<i>TABLE 24 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	114
<i>TABLE 25 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL (THOUSANDS UNITS)</i>	114
<i>TABLE 26 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	115
<i>TABLE 27 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	115
<i>TABLE 28 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	116
<i>TABLE 29 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	116
<i>TABLE 30 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE OR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	117
<i>TABLE 31 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	117
<i>TABLE 32 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)</i>	118



<b>TOPIC</b>	<b>PAGE NO.</b>
TABLE 33 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	118
TABLE 34 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	119
TABLE 35 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL AT PRICE \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	119
TABLE 36 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND UNITS)	120
HIGH OIL PRICE SCENARIO -LONG-TERM OIL PRICE AT \$120 PER BARREL	120
TABLE 37 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	120
TABLE 38 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	121
TABLE 39 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	121
TABLE 40 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	122
TABLE 41 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL , THROUGH 2020 (THOUSAND UNITS)	122
TABLE 42 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	123
TABLE 43 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	123
TABLE 44 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	124
TABLE 45 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	124
TABLE 46 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	125
TABLE 47 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	125
TABLE 48 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	126
TABLE 49 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	126

<b>TOPIC</b>	<b>PAGE NO.</b>
<i>TABLE 50 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	127
<i>TABLE 51 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	127
<i>LOW OIL PRICE SCENARIO -LONG-TERM OIL PRICE AT \$40 PER BARREL</i>	128
<i>TABLE 52 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	128
<i>TABLE 53 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	128
<i>TABLE 54 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	129
<i>TABLE 55 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	129
<i>TABLE 56 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	130
<i>TABLE 57 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	130
<i>TABLE 58 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	131
<i>TABLE 59 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	131
<i>TABLE 60 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	132
<i>TABLE 61 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	132
<i>TABLE 62 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	133
<i>TABLE 63 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	133
<i>TABLE 64 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	134
<i>TABLE 65 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	134
<i>TABLE 66 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)</i>	135
<b>CHAPTER 7 ALTERNATIVE FUELS MARKET SIZES AND FORECASTS BY REGION</b>	<b>137</b>

<b>TOPIC</b>	<b>PAGE NO.</b>
INTRODUCTION AND OVERVIEW	137
TABLE 67 GLOBAL MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	137
TABLE 68 GLOBAL MARKET OF ALTERNATIVE FUEL FOR ALL CLASSES OF COMMERCIAL VEHICLES BY REGION WITH IL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	139
TABLE 69 GLOBAL MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR COMMERCIAL VEHICLES BY CLASS WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	140
TABLE 70 GLOBAL MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (MILLION DGE UNITS)	141
TABLE 71 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (MILLIONS DGE UNITS)	141
TABLE 72 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES BY CLASS WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (MILLIONS DGE UNITS)	142
TABLE 73 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (MILLIONS OF CONVENTIONAL UNITS BY FUEL)	142
BASE CASE SCENARIO -LONG-TERM OIL PRICE AT \$80 PER BARREL	143
TABLE 74 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	143
TABLE 75 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	143
TABLE 76 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	144
TABLE 77 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	144
TABLE 78 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	145
TABLE 79 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	146
TABLE 80 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	146
TABLE 81 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	147
TABLE 82 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	147
TABLE 83 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	148

<b>TOPIC</b>	<b>PAGE NO.</b>
TABLE 84 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	148
TABLE 85 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	149
TABLE 86 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	149
TABLE 87 ASIA-PACIFIC MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS DGE UNITS)	150
TABLE 88 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	150
TABLE 89 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	151
TABLE 90 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	151
TABLE 91 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	152
TABLE 92 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	152
TABLE 93 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	153
TABLE 94 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	153
TABLE 95 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	154
TABLE 96 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	154
TABLE 97 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	155
TABLE 98 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	155
TABLE 99 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	156
TABLE 100 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	156
TABLE 101 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	157

<b>TOPIC</b>	<b>PAGE NO.</b>
TABLE 102 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	157
TABLE 103 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	158
TABLE 104 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	158
TABLE 105 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	159
TABLE 106 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	159
TABLE 107 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	160
TABLE 108 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	160
TABLE 109 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	161
TABLE 110 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	161
TABLE 111 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	162
TABLE 112 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	162
TABLE 113 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	163
TABLE 114 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	163
TABLE 115 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	164
TABLE 116 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	164
TABLE 117 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	164
TABLE 118 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	165
HIGH OIL PRICE SCENARIO -LONG-TERM OIL PRICE AT \$120 PER BARREL	165

<b>TOPIC</b>	<b>PAGE NO.</b>
TABLE 119 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	165
TABLE 120 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	166
TABLE 121 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	166
TABLE 122 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	167
TABLE 123 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	167
TABLE 124 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	168
TABLE 125 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	168
TABLE 126 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	169
TABLE 127 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	169
TABLE 128 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	170
TABLE 129 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	170
TABLE 130 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	171
TABLE 131 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	171
TABLE 132 ASIA-PACIFIC MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	172
TABLE 133 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	172
TABLE 134 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	173
TABLE 135 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	173
TABLE 136 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	174

<b>TOPIC</b>	<b>PAGE NO.</b>
TABLE 137 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	174
TABLE 138 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	175
TABLE 139 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	175
TABLE 140 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	176
TABLE 141 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	176
TABLE 142 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	177
TABLE 143 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	177
TABLE 144 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	178
TABLE 145 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	178
TABLE 146 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	179
TABLE 147 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL MEDIUM- AND HEAVY-DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	179
TABLE 148 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES -- TOTAL MEDIUM- AND HEAVY-DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	180
TABLE 149 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	180
TABLE 150 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	181
TABLE 151 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	181
TABLE 152 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	182
TABLE 153 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	182
TABLE 154 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	183
TABLE 155 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	183
TABLE 156 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	184

<b>TOPIC</b>	<b>PAGE NO.</b>
TABLE 157 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	184
TABLE 158 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	185
TABLE 159 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	185
TABLE 160 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	186
TABLE 161 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT-DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	186
TABLE 162 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	187
TABLE 163 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	187
LOW OIL PRICE SCENARIO - LONG-TERM OIL PRICE AT \$40 PER BARREL	188
TABLE 164 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	188
TABLE 165 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	188
TABLE 166 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	189
TABLE 167 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	189
TABLE 168 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	190
TABLE 169 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	190
TABLE 170 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	191
TABLE 171 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	191
TABLE 172 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	192
TABLE 173 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	192
TABLE 174 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	193
TABLE 175 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	193
TABLE 176 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	194
TABLE 177 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	194



<b>TOPIC</b>	<b>PAGE NO.</b>
TABLE 178 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	195
TABLE 179 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	195
TABLE 180 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	196
TABLE 181 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	196
TABLE 182 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	197
TABLE 183 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	197
TABLE 184 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	198
TABLE 185 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	198
TABLE 186 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	199
TABLE 187 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	199
TABLE 188 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	200
TABLE 189 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	200
TABLE 190 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	201
TABLE 191 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	201
TABLE 192 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	202
TABLE 193 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	202
TABLE 194 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	203
TABLE 195 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT 40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	203
TABLE 196 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	204
TABLE 197 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	204
TABLE 198 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	205
TABLE 199 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	205

<b>TOPIC</b>	<b>PAGE NO.</b>
<i>TABLE 200 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)</i>	206
<i>TABLE 201 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT DUTY WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)</i>	206
<i>TABLE 202 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)</i>	207
<i>TABLE 203 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)</i>	207
<i>TABLE 204 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)</i>	208
<i>TABLE 205 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)</i>	208
<i>TABLE 206 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)</i>	209
<i>TABLE 207 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)</i>	209
<i>TABLE 208 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)</i>	210
<b>CHAPTER 8 PATENTS FOR FUEL PRODUCTION, DISTRIBUTION AND REFUELING EQUIPMENT AND PROCESSES</b>	212
INTRODUCTION	212
GENERAL TRENDS	212
<i>TABLE 209 NUMBER OF ALTERNATIVE FUELS PATENTS, 2013-2015</i>	213
<i>FIGURE 44 NUMBER OF ALTERNATIVE FUELS PATENTS, 2013-2015</i>	213
TRENDS BY ASSIGNEE	213
<i>TABLE 210 NUMBER OF ALTERNATIVE FUEL SYSTEM PATENTS BY ASSIGNEE</i>	214
TRENDS BY ORGANIZATION TYPE	218
<i>TABLE 211 ALTERNATIVE FUELS PATENT TRENDS BY ORGANIZATION TYPE, 2012 TO 2015 (NUMBER/%)</i>	218
<i>FIGURE 45 ALTERNATIVE FUELS PATENT TRENDS BY ORGANIZATION TYPE, 2012 TO 2015 (%)</i>	218
TRENDS BY ALTERNATIVE FUEL TYPE	219
<i>TABLE 212 ALTERNATIVE FUELS PATENT TRENDS BY TYPE (NUMBER/%)</i>	219
<i>FIGURE 46 ALTERNATIVE FUELS PATENT TRENDS BY TYPE (%)</i>	219
TRENDS BY COUNTRY OF ORIGIN	220
<i>TABLE 213 ALTERNATIVE FUELS PATENT TRENDS BY COUNTRY OF ORIGIN, 2012 TO 2015 (NUMBER/%)</i>	220
<i>FIGURE 47 ALTERNATIVE FUELS PATENT TRENDS BY COUNTRY OF ORIGIN, 2012 TO 2015 (%)</i>	220
TRENDS BY APPLICATION TYPE	221
<i>TABLE 214 ALTERNATIVE FUELS PATENT TRENDS BY APPLICATION TYPE, 2012 TO 2015 (NUMBER/%)</i>	221
<i>FIGURE 48 ALTERNATIVE FUELS PATENT TRENDS BY APPLICATION TYPE, 2012 TO 2015 (%)</i>	221
<i>TABLE 215 LIST OF ALTERNATIVE FUELS PATENTS, 2015</i>	222
<i>TABLE 216 ALTERNATIVE FUELS S PATENTS, 2014</i>	239

<b>TOPIC</b>	<b>PAGE NO.</b>
<i>TABLE 217 LIST OF ALTERNATIVE FUELS PATENTS, 2013</i>	255
CHAPTER 9 COMPANY PROFILES	271
EQUIPMENT FOR FUEL STORAGE AND REFUELING	271
ADVANCE FUEL SYSTEMS CORP.	271
ANGI	271
BOHLEN & DOYEN BAUUNTERNEHMUNG GMBH	271
CBI TECHNOLOGIES	272
CENSTAR SCIENCE & TECHNOLOGY CO. LTD.	272
CHANGE ENERGY	272
CHART INDUSTRIES	273
CHONGQING ANRAN GAS TECHNOLOGY CO. LTD	273
CLEAN ENERGY COMPRESSION (IMW)	273
COMPACTGTL	274
CRYOSTAR	274
DAIS GLOBAL LTD	274
EMCO WHEATON	275
ET ENVIRONMENTAL CORP.	275
FLACO-GERATE GMBH	275
FLUSSIGGAS-ANLAGEN GMBH	276
GENERAL ELECTRIC	276
GENIFUEL CORP.	276
GP STRATEGIES	276
GAS EQUIPMENT SYSTEMS INC.	277
GAS TECHNOLOGIES LLC	277
INDUSTRIE- UND TANKANLAGEN FUHRER & WEINGARTNER GMBH	277
LINDE AKTIENGESELLSCHAFT	277
MARTIN BAHRE GMBH & CO. KG	278
MINNESOTA VALLEY ENGINEERING	278
NUMAK SRL	278
OMNITEK ENGINEERING CORP.	278
OPW RETAIL FUELING	279
P.C. MCKENZIE CO. (DIVISION OF INGERSOLL RAND)	279
PETROLEUM EQUIPMENT INSTITUTE	279
SCHANDL GMBH	280
TRUSTAR ENERGY CNG	280
WESTERN SHELL CRYOGENIC EQUIPMENT CO.	280
WESTMOR INDUSTRIES LLC	281
EQUIPMENT FOR PRODUCTION OF FUEL	281
ALLARD RESEARCH AND DEVELOPMENT LLC	281
BECHTEL	281
BIOENERGIA.KRAKOW.PL DE	282
BLACK & VEATCH	282
CHINA HDC CEREALS AND OILS MACHINERY CO., LTD.	282
CHOREN INDUSTRIETECHNIK GMBH	282
CROWN IRON WORKS CO.	283
FLUOR CORP.	283

TOPIC	PAGE NO.
GREEN FUELS LTD.	283
HALDOR TOPSOE A/S (HQ)	284
HAMAG A/S	284
HYGEAR	284
INFRA TECHNOLOGY LLC	284
JACOBS	285
KBR INC.	285
KIEWIT CORP.	285
MEMBRANE TECHNOLOGY AND RESEARCH INC.	286
OBERON FUELS	286
OXFORD CATALYSTS LTD.	286
PESCO BEAM ENVIRONMENTAL SOLUTIONS PVT. LTD.	286
PFAUDLER GERMANY	287
PRAJ INDUSTRIES LTD.	287
PRIMUS GREEN ENERGY	287
SRS ENGINEERING CORP.	288
THERMAL KINETIC ENGINEERING, PLLC	288
UNITED OIL MILL MACHINERY & SPARES PRIVATE LTD.	288
VELOCYS, INC.	289
ZEACHEM INC.	289
PUBLIC UTILITY COMPANIES	289
AGL RESOURCES INC.	289
ATMOS ENERGY CORP.	289
BEIJING ENTERPRISES HOLDINGS LTD. (BEHL)	290
CENTRICA PLC	290
CHINA GAS HOLDINGS LTD.	290
CHINA RESOURCES GAS GROUP LTD.	290
CONSOLIDATED EDISON INC.	291
DOMINION RESOURCES	291
EMPRESA DE ENERGIA DE BEGOTAJ SA ESP	291
ENAGIS SA	291
ENEL SPA	292
ENN ENERGY HOLDINGS LTD.	292
EXELON CORP.	292
GAIL (INDIA) LTD.	292
GAS NATURAL FENOSA	293
GAS NATURAL SOG SA	293
HONG KONG & CHINA GAS CO. LTD.	293
KOREA GAS CORP.	293
NATIONAL FUEL GAS CO.	294
NATIONAL GRID PLC	294
NISOURCE	294
ORIGIN ENERGY LTD.	294
OSAKA GAS CO. LTD.	295
PETRONAS GAS BERHAD	295
PG&E CORP.	295
PGN	295

<b>TOPIC</b>	<b>PAGE NO.</b>
PUBLIC SERVICES ENTERPRISE GROUP INC.	296
SEMPRA ENERGY	296
TOKYO GAS COMPANY LTD.	296
TOWNGAS CHINA COMPANY LIMITED	296
UGI CORP.	297
STORAGE AND TRANSPORTATION COMPANIES	297
ENABLE MIDSTREAM PARTNERS LP	297
ENBRIDGE INC.	297
ENERGY TRANSFER	297
ENTERPRISE PRODUCTS PARTNERS, LP	298
KINDER MORGAN INC.	298
MAGELLAN MIDSTREAM PARTNERS LP	298
OAO AK TRANSEFT	298
OIL TRANSPORTING JSC TRANSNEFT	299
ONEOK PARTNERS LP	299
PLAINS ALL AMERICAN PIPELINE LP	299
ROYAL VOPAK NV	299
SPECTRA ENERGY CORP.	300
TARGA RESOURCES PARTNERS LP	300
TRANSCANADA CORP.	300
ULTRAPAR HOLDINGS INC	300
WILLIAMS COMPANIES INC.	301
REFINING AND MARKETING COMPANIES	301
BHARAT PETROLEUM CORP. LTD.	301
COSMA OIL CO. LTD.	301
DELEK GROUP LTD.	301
EMPRESAS COPEC SA	302
ESSAR ENERGY PLC	302
FORMOSA PETROCHEMICAL CORP.	302
HINDUSTAN PETROLEUM CORP. LTD.	302
HOLLYFRONTIER CORP., THE	303
IDEMITSU KOSAN CO. LTD.	303
INDIAN OIL CORP. LTD.	303
JX HOLDINGS INC.	303
MARATHON PETROLEUM CORP.	304
NESTE OIL CORP.	304
PHILLIPS 66	304
POLSKI KONCERN NAFTOWY ORLEN SA	304
RABIGH REFINING & PETROCHEMICAL CO.	305
RELIANCE INDUSTRIES LTD.	305
SK INNOVATION CO. LTD	305
TESORO CORP.	305
TONENGENERAL SEKIYU KK	306
TURKIYE PETROL RAFINERILERI A.S.	306
VALERO ENERGY CORP.	306
WESTERN REFINING INC.	306
METHANOL PRODUCING COMPANIES	307

<b>TOPIC</b>	<b>PAGE NO.</b>
ATLANTIC METHANOL PRODUCTION CO. (AMPCO)	307
BP PLC	307
CARBON RECYCLING INTERNATIONAL	307
CLARIANT INTERNATIONAL LTD.	307
COOGEE CHEMICALS	308
ECOFUEL S.P.A. (ENI GROUP)	308
HELM AG	308
LANXESS AG	308
METAFRAX	309
METHANEX	309
METHANOL HOLDINGS LTD.	309
mitsubishi gas chemical	309
MITSUI & CO.	310
OCI N.V.	310
OMAN METHANOL CO. LLC	310
PETRONAS CHEMICALS GROUP BERHAD	310
QATAR FUEL ADDITIVES CO. LTD.	311
SABIC	311
SALALAH METHANOL CO.	311
SIPCHEM	311
<b>ETHANOL PRODUCING COMPANIES</b>	<b>312</b>
A RHODIA NO BRASIL	312
ABENGOA BIOENERGY CO.	312
AGUA BONITA	312
ALTO ALEGRE	312
ARCHER DANIELS MIDLAND	313
BIG RIVER RESOURCES LLC	313
BIOSEV	313
BP BIOFUELS	313
BUNGE LTD.	314
CERRADINHOPAR	314
COCAL ENERGIA RESPONSAVEL	314
COPERSUCAR S.A.	314
ENERKEM	315
FARM MONTE ALEGRE	315
FERRARI CO-OP: COPERSUCAR	315
FLINT HILL RESOURCES (SUBSIDIARY OF KOCH INDUSTRIES INC.,)	315
GREEN PLAINS INC.	316
GRANBIO-API	316
GROUP ADECOAGRO'S	316
GUARANI	316
NARDINI	317
NOBLE AGRI	317
ODEBRECHT AGROINDUSTRIAL	317
PACIFIC ETHANOL HOLDING CO. LLC	317
PEDRA AGROINDUSTRIAL S/A	318
PITANGUEIRAS COOPERATIVE: COPERSUCAR	318

TOPIC	PAGE NO.
POET BIOREFINING	318
RAIZEN ENERGIA S.A.	318
USINA ACUCAREIRA FURLAN S/A	319
USINA COLOMBO S/A	319
USINA ESTHER	319
USINA GRANELLI	319
USIAN IPIRANGA CO-OP: COPERSUCAR	320
VALERO RENEWABLE FUELS	320
VERBIO ETHANOL SCHWEDT GMBH & CO. KG	320
BIODIESEL PRODUCING COMPANIES	320
ACCIONA SA	320
ADM HAMBURG AG	321
AG PROCESSING INC.	321
AGROINVEST S.A.	321
AMBROSIA OILS LTD	321
AMYRIS	322
ARCHER DANIELS MIDLAND	322
ARGENT ENERGY	322
ASTRA BIOPANT	322
BIOCOM ENERGIA S.L	323
BIO-OILS ENERGY, S.L.	323
BIOPETROL INDUSTRIES AG	323
BIORO NV	323
CARGILL GMBH	324
CENTRE OUEST CEREALES	324
DAKA BIODIESEL	324
DELTA BIOFUELS	324
DIAMOND GREEN DIESEL LLC	325
ECO FOX S.R.L.	325
ECOMOTION GMBH	325
ECOMOTION BIODIESEL S.A.	325
ELIN BIOFUELS S.A.	326
EXPUR	326
FEDIOL	326
GF ENERGY	326
GREEN BIOFUELS IRELAND LTD	327
GREEN EARTH FUELS OF HOUSTON LLC	327
HOOFDZETEL ELECTRAWINDS NV	327
INEOS ENTERPRISES FRANCE SAS	327
ITAL BI OIL S.R.L	328
MANNHEIM BIO FUEL GMBH	328
NESTE RENEWABLE FUELS OY	328
NORD ESTER	328
NOVAOL ITALY	329
OLEON	329
OLLECO	329
PERSTORP	329

<b>TOPIC</b>	<b>PAGE NO.</b>
PETROTEC GMBH	330
PREOL A.S.	330
PRIO	330
RAPID OIL INDUSTRY CO. LTD.	330
RBF PORT NECHES LLC	331
REG NEWTON LLC	331
RIX BIODIESEL LTD.	331
TORREJANA	331
VERBIO DIESEL BITTERFELD GMBH & CO. KG	332
VERBAND DEUTSCHER BIODIESELHERSTELLER E.V.	332
EXPLORATION AND PRODUCTION COMPANIES	332
ANADARKO PETROLEUM CORP.	332
APACHE CORP.	332
CAIRN INDIA LTD.	333
CANADIAN NATURAL RESOURCES LTD.	333
CHESAPEAKE ENERGY CORP.	333
CNOOC LTD.	333
CONOCOPHILLIPS	334
CONTINENTAL RESOURCES INC.	334
DENBURY RESOURCES INC.	334
DEVON ENERGY CORP.	334
ENCANA CORP	335
EOG RESOURCES INC.	335
HESS CORP	335
INPEX CORP.	335
JSC KAZMUNAIGAS EXPLORATION PRODUCTION	336
JSOC BASHNEFT	336
KUNLUN ENERGY CO. LTD.	336
MARATHON OIL CORP.	336
MURPHY OIL CORP.	337
NEWFIELD EXPLORATION CO.	337
NOBLE ENERGY INC.	337
OAO NOVATEK	337
OAO TATNEFT	338
OIL & NATURAL GAS CORP. LTD.	338
PIONEER NATURAL RESOURCES CO.	338
SOUTHWESTERN ENERGY CORP.	338
TULLOW OIL PLC	339
WOODSIDE PETROLEUM LTD.	339
INTEGRATED OIL AND GAS COMPANIES	339
BG GROUP PLC	339
BP PLC	340
CENOVUS ENERGY INC.	340
CHEVRON CORP.	340
CHINA NATIONAL PETROLEUM	340
CHINA PETROLEUM & CHEMICAL CORP. (SINOPEC)	341
ECOPETROL SA	341



<b>TOPIC</b>	<b>PAGE NO.</b>
ENI SPA	341
EXXON MOBIL CORP.	341
GALP ENERGIA SGPS SA	342
HUSKY ENERGY INC.	342
MOL HUNGARIAN OIL & GAS CO.	342
OCCIDENTAL OIL AND GAS CORP.	342
OJSC GAZPROM	343
OJSC LUKOIL CO.	343
OJSC SURGUTNEFTGAS	343
OJSC ROSNEFT OIL CO.	343
OMV AKTIENGESELLSCHAFT	344
ORIGIN ENERGY LTD.	344
PETROCHINA COMPANY LTD.	344
PETROLEO BRASILEIRO SA (PETROBRAS)	344
POLSKIE GORNICTWO NAFTOWE I GAZOWNICTWO SA (PGNIG)	345
PTT GLOBAL CHEMICAL PUBLIC CO. LTD.	345
REPSOL SA	345
ROYAL DUTCH SHELL PLC	345
SASOL LTD.	346
STATOIL ASA	346
SUNCOR ENERGY INC.	346
TOTAL SA	346
YPF SA	347
OIL AND GAS SERVICES COMPANIES	347
ALMANSOORI SPECIALIZED ENGINEERING	347
BAKER HUGHES	347
CGG	347
CHINA OILFIELD SERVICES LTD.	348
CORE LABORATORIES N.V.	348
DIAMOND OFFSHORE DRILLING INC.	348
ENSCO PLC	348
FLUOR	349
HALLIBURTON	349
HELMERICH & PAYNE INC. (H&P)	349
JACOBS ENGINEERING GROUP	349
NABORS	350
NATIONAL OILWELL VARCO (NOV)	350
NOBEL	350
OIL STATES	350
PETROFAC	351
SAIPEM SPA (A SUBSIDIARY OF ENI)	351
SCHLUMBERGER	351
SEADRILL MANAGEMENT LTD.	351
TRANSOCEAN	352
WEATHERFORD INTERNATIONAL	352
WORLEY PARSONS	352
TRADE ASSOCIATIONS	352

<b>TOPIC</b>	<b>PAGE NO.</b>
ACEA - EUROPEAN AUTOMOTIVE MANUFACTURERS ASSOCIATION	352
AEGPL EUROPE	353
AMERICAN FUEL AND PETROCHEMICAL MANUFACTURERS	353
AMERICAN GAS ASSOCIATION (AGA)	353
AMERICAN NATURAL GAS ALLIANCE (ANGA)	354
AMERICAN SOCIETY OF AGRICULTURAL AND BIOLOGICAL ENGINEERS	354
ASIA PACIFIC NATURAL GAS VEHICLE ASSOCIATIONS (ANGVA)	354
ASOCIATION NACIONAL DE DISTRIBUIDORES DE GAS L.P., A.C. - MEXICO	355
BIODIESEL ASSOCIATION OF INDIA	355
BIOFUELS ASSOCIATION OF AUSTRALIA	355
CALIFORNIA NATURAL GAS VEHICLE COALITION	356
CANADIAN RENEWABLE FUELS ASSOCIATION (CRFA)	356
CAPE ISLANDS SELF RELIANCE	356
CENTER FOR CLIMATE AND ENERGY SOLUTIONS (C2ES)	357
CNG NOW	357
ENERGY COUNCIL OF THE AMERICAS	357
ENGVA EUROPE	357
EUROPEAN BIODIESEL BOARD	358
EUROPEAN LPG ASSOCIATION (AEGPL)	358
GERMAN ASSOCIATION OF AUTOMOTIVE INDUSTRY (VDA)	358
GERMAN UNION FOR THE PROMOTION OILS AND PROTEIN PLANTS	359
HEAVY DUTY MANUFACTURERS ASSOCIATION	359
INSTITUTE FOR LOCAL SELF RELIANCE	359
INTERNATIONAL ASSOCIATION FOR HYDROGEN ENERGY	360
INTERNATIONAL DME ASSOCIATION	360
INTERNATIONAL ENERGY AGENCY (IEA)	360
INTERNATIONAL GAS UNION	361
LPG CENTER, JAPAN	361
LPGA OF NEW ZEALAND	361
METHANOL INSTITUTE	362
MOTOR & EQUIPMENT MANUFACTURERS ASSOCIATION (MEMA)	362
NATURAL GAS SUPPLY ASSOCIATION (NGSA)	362
NATURAL GAS VEHICLES AMERICA (NGVA)	363
NATIONAL BIODIESEL BOARD	363
NATIONAL PETROLEUM COUNCIL (NPC)	363
NATIONAL PROPANE GAS ASSOCIATION	364
ORGANIZATION OF PETROLEUM EXPORTING COUNTRIES (OPEC)	364
RENEWABLE FUELS ASSOCIATION	364
RUSSIAN BIOFUELS ASSOCIATION	365
WORLD LPG ASSOCIATION, THE (WLPGA)	365
TRADE JOURNALS AND TRADE WEBSITES	365
AUTOMOTIVEFLEET.COM	365
BIOFUELS DIGEST	366
BIODIESEL MAGAZINE	366
BIOMASS MAGAZINE	366
ENERGY TREND INSIDER	366
ETHANOL PRODUCER MAGAZINE	367

<b>TOPIC</b>	<b>PAGE NO.</b>
FLEET OWNER MAGAZINE	367
FLEETS & FUELS	367
FUEL MARKETER NEWS	368
GOBYTRUCKNEWS.COM	368
GREEN FUEL ONLINE	368
HART ENERGY	368
HEAVY DUTY TRUCKING & TRUCKINGINFO.COM	369
HYDROGEN CAR REVOLUTION BLOG	369
INTERNATIONAL JOURNAL OF ENERGY SCIENCE	369
LPG GAS MAGAZINE	370
POWERTORQUE AND DELIVERY MAGAZINE	370
TRANSPORT TOPICS	370
<b>GOVERNMENT AGENCIES</b>	371
AGENCY FOR THE COOPERATION OF ENERGY REGULATORS (ACER)	371
AUSTRALIA-CHINA NATURAL GAS PARTNERSHIP FUND	371
CALIFORNIA ENERGY COMMISSION	371
CLEAN FUELS OHIO	372
EUROPEAN COMISSION	372
EUROSTAT	372
FEDERAL ENERGY REGULATORY COMMISSION (FERC)	373
FEDERAL STATISTICAL OFFICE OF GERMANY	373
LEGISLATIVE COUNCIL SECRETARIAT HONG KONG -RESEARCH AND LIBRARY SERVICE DIVISION	373
OAK RIDGE NATIONAL LABORATORY	374
SANDIA NATIONAL LABORATORIES	374
UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	374
UNITED STATES DEPARTMENT OF ENERGY (DOE) CLEAN CITIES	375
UNITED STATES DEPARTMENT OF ENERGY (DOE) ENERGY INFORMATION AGENCY (EIA)	375
UNITED STATES DEPARTMENT OF ENERGY (DOE) ENERGY INFORMATION AGENCY (EIA) ALTERNATIVE FUELS DATA CENTER (AFDC)	375
UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)	376
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA)	376
<b>QUASI-GOVERNMENTAL AGENCIES</b>	376
ARGONNE NATIONAL LABORATORY (ANL)	376
BIOMASS RESEARCH AND DEVELOPMENT BOARD	376
CENTER FOR CLIMATE AND ENERGY SOLUTIONS	377
INSTITUTE FOR ENERGY AND ENVIRONMENTAL RESEARCH - HEIDELBERG GERMANY	377
INSTITUTE FOR ENERGY RESOURCEFULNESS	377
INTERNATIONAL INSTITUTE FOR SUSTAINABLE DEVELOPMENT	377
NATIONAL RENEWABLE ENERGY LABORATORY	378
SOUTHWEST RESEARCH INSTITUTE	378

**LIST OF TABLES**

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
SUMMARY TABLE GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	8
TABLE 1 METHANOL FUEL BLENDS, PERFORMANCE AND TRADEOFFS	31
TABLE 2 SUMMARY OF METHANOL	32
TABLE 3 ETHANOL FUEL BLENDS, PERFORMANCE AND TRADEOFFS	38
TABLE 4 SUMMARY OF ETHANOL	39
TABLE 5 SUMMARY OF BIODIESEL	44
TABLE 6 CNG FUEL BLENDS, PERFORMANCE AND TRADEOFFS	48
TABLE 7 SUMMARY OF CNG	49
TABLE 8 LNG FUEL BLENDS, PERFORMANCE AND TRADEOFFS	54
TABLE 9 SUMMARY OF LNG	54
TABLE 10 LPG FUEL BLENDS, PERFORMANCE AND TRADEOFFS	58
TABLE 11 SUMMARY OF LPG	59
TABLE 12 DME FUEL BLENDS, PERFORMANCE AND TRADEOFFS	63
TABLE 13 SUMMARY OF DME	64
TABLE 14 SUMMARY OF BIOMETHANE	68
TABLE 15 HYDROGEN FUEL BLENDS, PERFORMANCE AND TRADEOFFS	72
TABLE 16 SUMMARY OF HYDROGEN	73
TABLE 17 HYTHANE FUEL BLENDS, PERFORMANCE AND TRADEOFFS	76
TABLE 18 SUMMARY OF HYTHANE	77
TABLE 19 COMPARISON OF THE GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (THOUSANDS UNITS)	110
TABLE 20 COMPARISON OF THE INSTALLED BASES OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES BY REGION WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (THOUSANDS UNITS)	111
TABLE 21 COMPARISON OF THE GLOBAL INSTALLED BASES OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES BY CLASS WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (THOUSANDS UNITS)	112
TABLE 22 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL (THOUSANDS UNITS)	113
TABLE 23 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	113
TABLE 24 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	114
TABLE 25 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL (THOUSANDS UNITS)	114
TABLE 26 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	115
TABLE 27 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	115
TABLE 28 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	116

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 29 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	116
TABLE 30 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE OR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	117
TABLE 31 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	117
TABLE 32 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	118
TABLE 33 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	118
TABLE 34 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	119
TABLE 35 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL AT PRICE \$80/BARREL, THROUGH 2020 (THOUSANDS UNITS)	119
TABLE 36 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND UNITS)	120
TABLE 37 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	120
TABLE 38 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	121
TABLE 39 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	121
TABLE 40 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	122
TABLE 41 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL , THROUGH 2020 (THOUSAND UNITS)	122
TABLE 42 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	123
TABLE 43 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	123
TABLE 44 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	124
TABLE 45 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	124
TABLE 46 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	125

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 47 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	125
TABLE 48 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	126
TABLE 49 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	126
TABLE 50 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	127
TABLE 51 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND UNITS)	127
TABLE 52 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	128
TABLE 53 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	128
TABLE 54 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	129
TABLE 55 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	129
TABLE 56 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	130
TABLE 57 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	130
TABLE 58 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	131
TABLE 59 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	131
TABLE 60 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	132
TABLE 61 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	132
TABLE 62 GLOBAL INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	133
TABLE 63 NORTH AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	133
TABLE 64 LATIN AMERICAN INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	134

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 65 EMEA INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	134
TABLE 66 ASIA-PACIFIC INSTALLED BASE OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND UNITS)	135
TABLE 67 GLOBAL MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	137
TABLE 68 GLOBAL MARKET OF ALTERNATIVE FUEL FOR ALL CLASSES OF COMMERCIAL VEHICLES BY REGION WITH IL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	139
TABLE 69 GLOBAL MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR COMMERCIAL VEHICLES BY CLASS WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	140
TABLE 70 GLOBAL MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (MILLION DGE UNITS)	141
TABLE 71 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (MILLIONS DGE UNITS)	141
TABLE 72 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES BY CLASS WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (MILLIONS DGE UNITS)	142
TABLE 73 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, THROUGH 2020 (MILLIONS OF CONVENTIONAL UNITS BY FUEL)	142
TABLE 74 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	143
TABLE 75 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	143
TABLE 76 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	144
TABLE 77 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	144
TABLE 78 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	145
TABLE 79 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	146
TABLE 80 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	146
TABLE 81 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	147
TABLE 82 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	147

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 83 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	148
TABLE 84 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	148
TABLE 85 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	149
TABLE 86 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	149
TABLE 87 ASIA-PACIFIC MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSANDS DGE UNITS)	150
TABLE 88 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	150
TABLE 89 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	151
TABLE 90 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	151
TABLE 91 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	152
TABLE 92 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	152
TABLE 93 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	153
TABLE 94 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	153
TABLE 95 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	154
TABLE 96 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	154
TABLE 97 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	155
TABLE 98 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	155
TABLE 99 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	156
TABLE 100 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	156



<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 101 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	157
TABLE 102 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	157
TABLE 103 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	158
TABLE 104 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	158
TABLE 105 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	159
TABLE 106 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT\$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	159
TABLE 107 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	160
TABLE 108 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	160
TABLE 109 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	161
TABLE 110 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	161
TABLE 111 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	162
TABLE 112 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	162
TABLE 113 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	163
TABLE 114 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	163
TABLE 115 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	164
TABLE 116 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	164
TABLE 117 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	164
TABLE 118 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR LIGHT-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$80/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	165

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 119 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	165
TABLE 120 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	166
TABLE 121 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	166
TABLE 122 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	167
TABLE 123 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	167
TABLE 124 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	168
TABLE 125 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	168
TABLE 126 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	169
TABLE 127 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	169
TABLE 128 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	170
TABLE 129 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	170
TABLE 130 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	171
TABLE 131 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	171
TABLE 132 ASIA-PACIFIC MARKET SIZE OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	172
TABLE 133 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	172
TABLE 134 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	173
TABLE 135 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	173
TABLE 136 GLOBAL MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	174

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 137 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	174
TABLE 138 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	175
TABLE 139 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	175
TABLE 140 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	176
TABLE 141 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	176
TABLE 142 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	177
TABLE 143 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	177
TABLE 144 EMEA MARKET OF ALTERNATIVE FUEL BY TYPE FOR MEDIUM- AND HEAVY-DUTY COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	178
TABLE 145 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	178
TABLE 146 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	179
TABLE 147 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL MEDIUM- AND HEAVY-DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	179
TABLE 148 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES -- TOTAL MEDIUM- AND HEAVY-DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	180
TABLE 149 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	180
TABLE 150 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	181
TABLE 151 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	181
TABLE 152 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	182
TABLE 153 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	182
TABLE 154 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	183
TABLE 155 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	183
TABLE 156 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	184

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 157 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	184
TABLE 158 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	185
TABLE 159 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	185
TABLE 160 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	186
TABLE 161 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT-DUTY WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	186
TABLE 162 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	187
TABLE 163 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$120/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	187
TABLE 164 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	188
TABLE 165 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	188
TABLE 166 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	189
TABLE 167 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	189
TABLE 168 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	190
TABLE 169 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	190
TABLE 170 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	191
TABLE 171 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	191
TABLE 172 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	192
TABLE 173 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	192
TABLE 174 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	193
TABLE 175 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	193
TABLE 176 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	194
TABLE 177 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	194
TABLE 178 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	195

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 179 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	195
TABLE 180 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	196
TABLE 181 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	196
TABLE 182 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	197
TABLE 183 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	197
TABLE 184 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	198
TABLE 185 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	198
TABLE 186 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	199
TABLE 187 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	199
TABLE 188 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	200
TABLE 189 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	200
TABLE 190 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	201
TABLE 191 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	201
TABLE 192 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	202
TABLE 193 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	202
TABLE 194 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	203
TABLE 195 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT 40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	203
TABLE 196 GLOBAL MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	204
TABLE 197 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	204
TABLE 198 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	205
TABLE 199 NORTH AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	205
TABLE 200 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	206
TABLE 201 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES - TOTAL LIGHT DUTY WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	206

<b>TABLE HEADING</b>	<b>PAGE NO.</b>
TABLE 202 LATIN AMERICAN MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	207
TABLE 203 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	207
TABLE 204 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	208
TABLE 205 EMEA MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	208
TABLE 206 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (\$ MILLIONS RETAIL)	209
TABLE 207 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (THOUSAND DGE UNITS)	209
TABLE 208 ASIA-PACIFIC MARKET OF ALTERNATIVE FUEL FOR COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/BARREL, THROUGH 2020 (CONVENTIONAL UNITS BY FUEL)	210
TABLE 209 NUMBER OF ALTERNATIVE FUELS PATENTS, 2013-2015	213
TABLE 210 NUMBER OF ALTERNATIVE FUEL SYSTEM PATENTS BY ASSIGNEE	214
TABLE 211 ALTERNATIVE FUELS PATENT TRENDS BY ORGANIZATION TYPE, 2012 TO 2015 (NUMBER/%)	218
TABLE 212 ALTERNATIVE FUELS PATENT TRENDS BY TYPE (NUMBER/%)	219
TABLE 213 ALTERNATIVE FUELS PATENT TRENDS BY COUNTRY OF ORIGIN, 2012 TO 2015 (NUMBER/%)	220
TABLE 214 ALTERNATIVE FUELS PATENT TRENDS BY APPLICATION TYPE, 2012 TO 2015 (NUMBER/%)	221
TABLE 215 LIST OF ALTERNATIVE FUELS PATENTS, 2015	222
TABLE 216 ALTERNATIVE FUELS S PATENTS, 2014	239
TABLE 217 LIST OF ALTERNATIVE FUELS PATENTS, 2013	255

**LIST OF FIGURES**

<b>FIGURE TITLE</b>	<b>PAGE NO.</b>
SUMMARY FIGURE GLOBAL MARKET FOR ALTERNATIVE FUEL BY TYPE FOR ALL CLASSES OF COMMERCIAL VEHICLES WITH OIL PRICE AT \$40/\$80/\$120 PER BARREL, 2014-2020 (\$ MILLIONS)	8
FIGURE 1 GASOLINE PRODUCTION PROCESS	16
FIGURE 2 GASOLINE DISTRIBUTION NETWORK	18
FIGURE 3 DIESEL PRODUCTION PROCESS	19
FIGURE 4 DIESEL DISTRIBUTION NETWORK	21
FIGURE 5 METHANOL PRODUCTION PROCESS	28
FIGURE 6 METHANOL FUEL DISTRIBUTION NETWORK	30
FIGURE 7 ETHANOL PRODUCTION PROCESS	34
FIGURE 8 ETHANOL FUEL DISTRIBUTION NETWORK	37
FIGURE 9 BIODIESEL PRODUCTION PROCESS	40
FIGURE 10 COMPARISON OF FOSSIL FUEL DIESEL AND BIODIESEL FUEL PRODUCTION PROCESSING	42
FIGURE 11 BIODIESEL DISTRIBUTION NETWORK	43
FIGURE 12 CNG PRODUCTION PROCESS	46
FIGURE 13 LNG PRODUCTION PROCESS	50
FIGURE 14 LNG DISTRIBUTION NETWORK	52
FIGURE 15 LPG PRODUCTION PROCESS	56
FIGURE 16 LPG DISTRIBUTION NETWORK	57
FIGURE 17 DME PRODUCTION PROCESS	60
FIGURE 18 DME DISTRIBUTION NETWORK	62
FIGURE 19 BIOMETHANE PRODUCTION PROCESS	65
FIGURE 20 HYDROGEN PRODUCTION PROCESS	70
FIGURE 21 HYDROGEN DISTRIBUTION NETWORK	72
FIGURE 22 HYTHANE PRODUCTION PROCESS	74
FIGURE 23 HYTHANE DISTRIBUTION NETWORK	75
FIGURE 24 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR METHANOL FUEL	83
FIGURE 25 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR ETHANOL FUEL	84
FIGURE 26 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR CNG FUEL	85
FIGURE 27 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF CNG-FUELED COMMERCIAL VEHICLES	86
FIGURE 28 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR LNG FUEL	87
FIGURE 29 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF LNG-FUELED COMMERCIAL VEHICLES	88
FIGURE 30 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR LPG (AUTOGAS) FUEL	89
FIGURE 31 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF LPG (AUTOGAS)-FUELED COMMERCIAL VEHICLES	90
FIGURE 32 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR DME FUEL	91
FIGURE 33 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF DME-FUELED COMMERCIAL VEHICLES	92
FIGURE 34 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR COMPRESSED HYDROGEN FUEL	92

<b>FIGURE TITLE</b>	<b>PAGE NO.</b>
FIGURE 35 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF COMPRESSED HYDROGEN-FUELED COMMERCIAL VEHICLES	93
FIGURE 36 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR LIQUEFIED HYDROGEN FUEL	94
FIGURE 37 INCREMENTAL STATIONARY EQUIPMENT FOR SUPPORT OF LIQUEFIED HYDROGEN-FUELED COMMERCIAL VEHICLES	95
FIGURE 38 INCREMENTAL ON-BOARD COMMERCIAL VEHICLE UPFIT EQUIPMENT FOR COMPRESSED HYTHANE FUEL	96
FIGURE 39 EXAMPLE OF THREE-YEAR PAYBACK RELATIONSHIP BETWEEN DIESEL/OIL PRICES AND AN ALTERNATIVE FUEL PRICE FOR A SPECIFIC REGION (\$, \$/DGE, MILES/YEAR)	99
FIGURE 40 NORTH AMERICAN BREAKEVEN PRICES FOR EACH ALTERNATIVE FUEL PER DIESEL GALLON EQUIVALENT (DGE) (\$)	101
FIGURE 41 LATIN AMERICAN BREAKEVEN PRICES FOR EACH ALTERNATIVE FUEL PER DIESEL GALLON EQUIVALENT (DGE) (\$)	103
FIGURE 42 EUROPEAN, MIDDLE EASTERN AND AFRICAN BREAKEVEN PRICES FOR EACH ALTERNATIVE FUEL PER DIESEL GALLON EQUIVALENT (DGE) (\$)	104
FIGURE 43 ASIA-PACIFIC BREAKEVEN PRICES FOR EACH ALTERNATIVE FUEL PER DIESEL GALLON EQUIVALENT (DGE) (\$)	106
FIGURE 44 NUMBER OF ALTERNATIVE FUELS PATENTS, 2013-2015	213
FIGURE 45 ALTERNATIVE FUELS PATENT TRENDS BY ORGANIZATION TYPE, 2012 TO 2015 (%)	218
FIGURE 46 ALTERNATIVE FUELS PATENT TRENDS BY TYPE (%)	219
FIGURE 47 ALTERNATIVE FUELS PATENT TRENDS BY COUNTRY OF ORIGIN, 2012 TO 2015 (%)	220
FIGURE 48 ALTERNATIVE FUELS PATENT TRENDS BY APPLICATION TYPE, 2012 TO 2015 (%)	221