

---

## Contents

<b>1 Introduction – The Trouble With Carbon</b>	<b>1</b>
<b>2 The Trouble With Oil</b>	<b>2</b>
<b>3 Welcome To The Nuclear Age?</b>	<b>2</b>
<b>4 Innovation Within The Energy Industry</b>	<b>3</b>
<b>5 Why Renewable Energy Must Compete With Oil At \$30 Per Barrel</b>	<b>4</b>
<b>6 Microgeneration</b>	<b>5</b>
<b>7 Energy Storage</b>	<b>6</b>
<b>8 Urban Heat Islands – A Problem And An Opportunity</b>	<b>7</b>
<b>9 Energy Production – New Model Urgently Required</b>	<b>8</b>
<b>10 Carbon Emissions And The Consumer</b>	<b>9</b>
<b>11 101 Opportunities In The Carbon Reduction Market</b>	<b>11</b>
11.1 Nuclear Power	12
11.2 Nuclear Fusion	12
11.3 Clean Coal	12
11.4 Large Scale Combined Heat And Power (CHP)	13
11.5 Carbon Sequestration	13
11.6 Carbon Offset For Corporates	13
11.7 Legislation	14
11.8 Taxing Emissions	14
11.9 Naming And Shaming	14
11.10 Incentives	15
11.11 Funding	15
11.12 Energy As A Service	15
11.13 Low Power Data Centres	16
11.14 Building Energy Management	16
11.15 Industrial Relocation	16
11.16 Large Scale Geothermal Systems	17
11.17 Photovoltaic Devices	17
11.18 Thin Film And Plastic Solar Devices	17
11.19 Nano Solar Technology	18
11.20 Solar Hot Water Systems	18
11.21 Large Scale Solar Energy Installations	18

---

---

11.22	Concentrated Solar Power	19
11.23	Solar Cones	19
11.24	Solar Furnaces	19
11.25	Building Integrated Solar Power	20
11.26	Large Scale Wind Energy	20
11.27	Medium Scale Wind Energy	20
11.28	Urban Wind Turbines	21
11.29	Public Transport	21
11.30	Rail Transport	21
11.31	Air Travel	22
11.32	Hybrid Automobiles	22
11.33	Electric Commercial Vehicles	22
11.34	Electric Vehicles	23
11.35	Electric Scooters	23
11.36	The Internet	23
11.37	Automobile Sharing	24
11.38	Congestion Charging	24
11.39	Parking Charges And Restrictions	24
11.40	Cycling	25
11.41	The Hydrogen Economy	25
11.42	Hydrogen Production	25
11.43	Hydrogen From Wind	26
11.44	Hydrogen From Solar Energy	26
11.45	Hydrogen From Corn	26
11.46	Hydrogen Injection	27
11.47	Hydrogen Delivery	27
11.48	Hydrogen Powered 4x4s	27
11.49	Hydrogen Storage	28
11.50	Hydrogen Fuel Cells	28
11.51	The Distributed Power Model	28
11.52	Intelligent Grids	29
11.53	Smart Metering	29
11.54	Renewable Energy Grids	29
11.55	Urban Power	30
11.56	Sustainable Cities	30
11.57	Road Energy	30
11.58	Street Lighting	31
11.59	Building Design	31
11.60	Community Wind Energy	31
11.61	Community Energy Projects	32
11.62	Gas From Landfill	32
11.63	Personal Carbon Footprint	32
11.64	Personal Carbon Offset	33
11.65	Microgeneration	33
11.66	Small Scale Geothermal Energy	33
11.67	Small Scale Wind Energy	34
11.68	Small Scale Solar Energy	34
11.69	Hydrogen Powered Homes	34
11.70	Small Scale Hydro Power	35
11.71	Lighting Equipment	35
11.72	Packaging	35
11.73	Transported Goods	36
11.74	Recycling	36
11.75	Waste Water Heat Recovery	36

---

11.76 Household Energy Saving	37
11.77 Stand-by Technology	37
11.78 Lawn Mowers And E10	37
11.79 Solar Energy Makeover	38
11.80 Insulation	38
11.81 Micro CHP	38
11.82 Pumped Hydro Energy	39
11.83 Wave Power	39
11.84 Tidal Energy	39
11.85 Underwater Turbines	40
11.86 Farming Renewable Energy	40
11.87 Farming Wind	40
11.88 Grass Energy	41
11.89 Biomethane	41
11.90 Bio Diesel	41
11.91 Biobutanol	42
11.92 Ethanol From Wood	42
11.93 Enzymes And Ethanol	42
11.94 Fuel From Candy	43
11.95 Ethanol From Waste	43
11.96 Energy Storage - Redox Batteries	43
11.97 Energy Storage - Capacitors	44
11.98 Energy Storage - Flywheels	44
11.99 Mobile Power Stations	44
11.100 Stand-alone Solar Power Devices	45
11.101 Wood Pellets	45

---