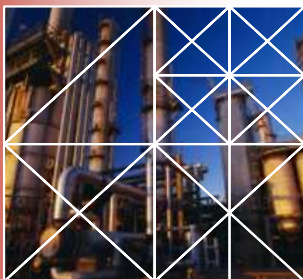
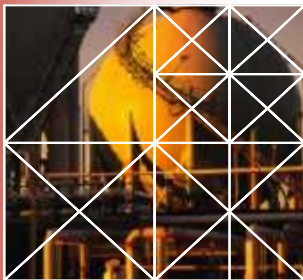


TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
Industry Outlook	1
International Trends	1
European Refining Outlook	2
Demand and Product Quality Pressures	2
Achieving Competitive Advantage	3
CRUDE OIL PRICING OUTLOOK	5
Recent Price Developments	5
Price Projections	6
FORECASTING METHODOLOGY	7
Introduction	7
Key Refining Margin Drivers	7
Refinery Production	9
Introduction	9
West European Production	10
Regional Production	13
Future Industry Pressures	13
REFINING INDUSTRY STRUCTURE	15
Historical Capacity Developments	15
Current and Projected Utilisation	16
Impact of Product Quality Changes	19
Introduction	19
Gasoline	20
Diesel	21
Distillate Sulphur Content	23
Distillate Hydrodesulphurisation	23
Refinery Configurations	23
Overview	23
Vacuum Distillate (VGO) Conversion	27
Residue Processing	28
Overview	28
West European Fuel Oil Balance	29
Options to Meet Proposed Legislation	30
Future Fuel Oil Production in Western Europe	32



REFINED PRODUCT PRICING	33
North-West Europe	33
Background	33
Individual Product Price Drivers	38
Gasoline and Naphtha	38
Kerosene	40
Diesel and Gas Oil	40
Heavy Fuel Oil	41
Mediterranean	41
Octane Valuation and MTBE Pricing	44
Introduction	44
MTBE	45
Octane Value	47
Impact of Auto-Oil Product Quality Changes	49
"Medium Oil" Price Projections	49
Introduction	49
Sensitivity Analyses	50
REFINING MARGINS	51
Introduction	51
Basis of Margin Calculations	51
Historic Margins	53
Introduction	53
Hydroskimming Margins	55
Upgrading Margins	56
Margin Projections	58
Industry Outlook	60
Investment Returns	62
APPENDICES	
Appendix Pricing Data Summary	65
Appendix Refining Yields and Costs	70
Appendix Refinery Capacity in Western Europe	118