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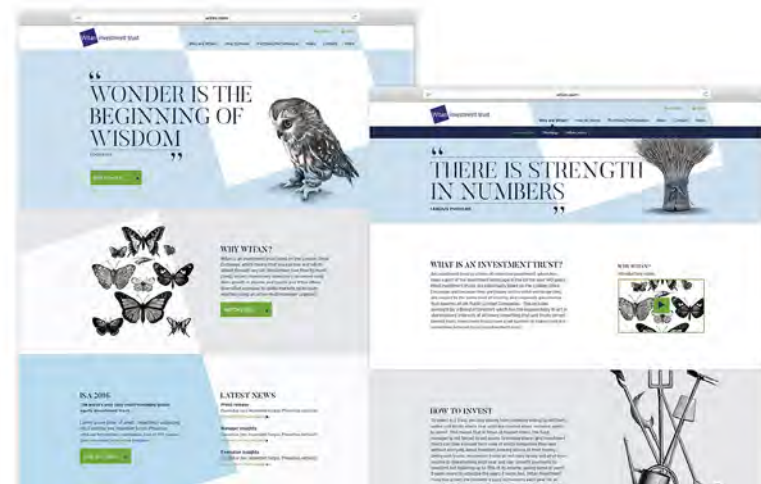
Neil P Herridge

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Witan Investment Trust
Rebrand





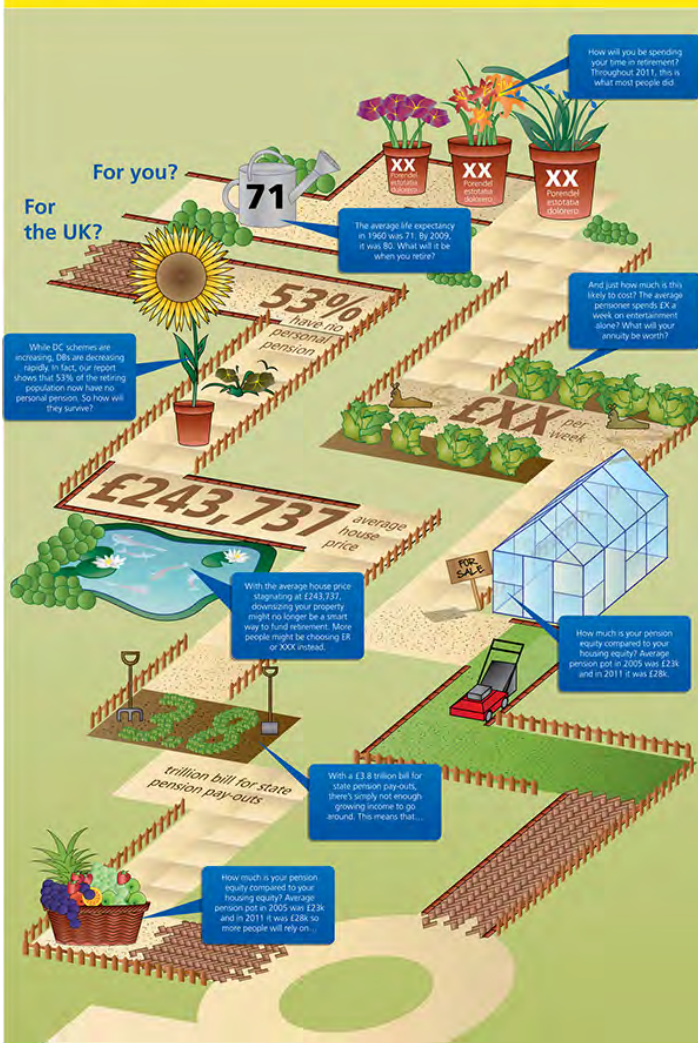


Aviva Retirement / Equity Release Pitchwork



What does the new retirement landscape look like?

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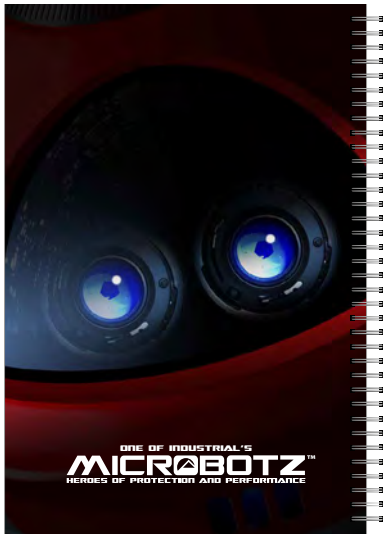


Eden Tree Investment Management Rebrand



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INDUSTRIAL TURBINE



INTRODUCTION

- Atlas Industrial Portfolio

1 INTRODUCTION TO INDUSTRIAL TURBINE APPLICATIONS

- History of industrial turbines
- Types of turbines
- What are turbines used for?
- Turbine manufacturers all at a glance
- How turbines work - the basics: gas, steam, combined cycle operation
- How turbines work - the details: turbine components, lubrication and control systems, gears
- Challenges for turbine operators
- Turbine Lubricants: A brief introduction

2 TURBINE LUBRICATION NEEDS

- What do turbine lubricants do?
- What risks do additives play?
- Lubricant system design and components
- What things go wrong: turbine lubricant in-service problems
- Introduction to lubricant classifications

3 MAJOR OEMS AND EQUIPMENT BELIEFS

- Overview of Key Turbine OEMs
- Siemens
- Alstom SA
- MAN Diesel & Turbo
- General Electric
- MHI (Mitsubishi Heavy Industries)
- SIES (Shanghai Heavy Electrical Ltd)
- Shanghai Electric Group Co.
- Dongfang Electric Corporation (DEC)

4 THE TURBINE MARKET IN NUMBERS

- Global turbine power generation to 2020 by geographic region
- Global turbine power generation 2014 and 2020 by turbine type
- Global O&M reported new turbine orders 2012 by turbine type and by geographic region
- Market trends in gas and steam turbine equipment
- Impact of key trends on turbine lubrication
- Drive for efficiency
- Asset risk choice
- Fluid vs. lubricant performance
- Lubricant Market Segmentation

5 KEY TURBINE LUBRICANT TESTS EXPLAINED

- Description of key tests
- Specification cross reference tables

6 THE AFTON INDUSTRIAL TURBINE, CIRCULATING AND COMPRESSOR PORTFOLIO

- Turbine & circulating range
- Compressor range
- Portfolio overview by market segment
- Turbine & circulating product benefits
- Compressor product benefits
- All-at-a-glance applications overview
- All-at-a-glance overview of standards and specification approvals

7 APPENDIX

- Turbine dictionary
- Turbine acronyms
- Base stocks explained
- Base stock comparisons

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Full Creative for wire brochure

Challenges for Turbine Operators

Electricity generation accounts for a considerable proportion of total turbine power output, especially from the largest machines: in this industry, profitability is critical. Strict contractual obligations are also placed on many electricity suppliers to ensure a stable power flow to the grid.

THE CHALLENGES FACING TURBINE OPERATORS



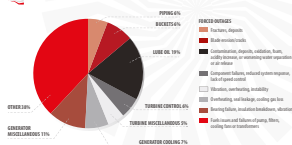
Market conditions can influence equipment design, operating procedures and maintenance. Good natural gas availability and pricing has increased the popularity of gas turbines. For example, a trend predicted to continue increasing gas prices creates attractive returns over other fuels.

However, with offering fuel subsidies and electricity generation subsidies available in every country, new installations will not always be the cheapest or most efficient plant designs.

RELIABILITY AND AVAILABILITY

Every turbine's challenge is maximum uptime for generating electricity. Good reliability helps avoid unplanned outages and allows the longest possible intervals between maintenance shutdowns.

CONTRIBUTORS TO COSTLY FORCED OUTAGES



Modern gas turbines have tight air and fueling controls. If systems detect a turbine operating outside normal parameters, it is advised from service immediately. Steam turbines need a carefully controlled steam supply with long shut down and start up times. It's particularly important to minimize any disruptions.

The right lubricant, and careful monitoring of turbine performance and condition, is crucial to reliability.

Lube oil is estimated to be the cause of nearly 15% of forced outages.

Turbine bearing or governor valve problems have been known to cause not just shutdowns but catastrophic equipment failure, with downtime plus repair costs amounting into many millions of dollars.

DOWNTIME COSTS

1 of peak electricity costs at \$50 per MWh Hour (MWh), a turbine can produce \$20,000 over the 1,000,000 MWh of off-peak electricity per day. Production losses from downtime runs into thousands of dollars per hour on top of maintenance and repair costs. Add the potential cost of buying electricity to meet contractual obligations, and it's clear how important reliability is for meeting the most critical power.



SOURCE: AFTON OPERATIONS DIVISION, 2014. BASED ON 2014 MARKET DATA. COSTS VARY BY TURBINE TYPE AND SIZE.



INDUSTRIAL | TURBINE



Design assets



BSU - Farnham Park Branding
Branding



FARNHAM PARK

A FIELD OF DREAMS

**THE COUNTRY'S
PREMIER BASEBALL
SOFTBALL COMPLEX**

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