

Water, alternative energy and climate change - environmental investment strategies

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Climate Change – No Longer a Fringe Issue



INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE



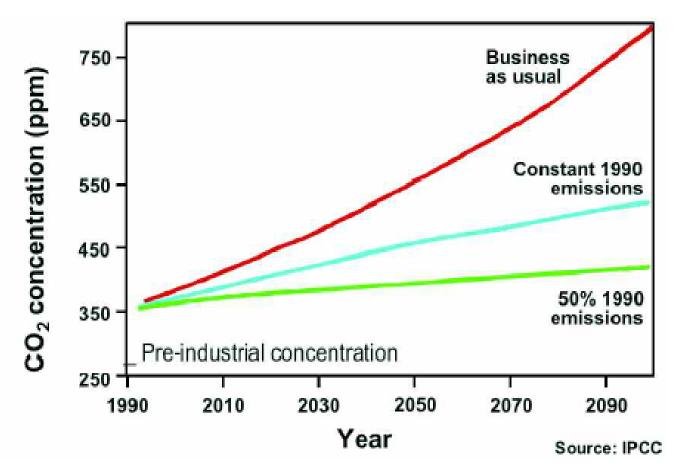
"Warming of the climate system is unequivocal, as is now evident from observations of increases in global average air and ocean temperature widespread melting of snow and ice, and rising global average sea level"

IPCC Fourth Assessment Report 2007





Climate Change-Emissions projected to rise further







Constructing a Climate Change Portfolio

Fundamental

 Specialist stock and sector insights

+

Quantitative

 Diversification and management of risk

- A diversified portfolio representative of the emerging nature and long-term potential of the climate change theme
 - A disciplined portfolio construction process involving a specialist internal benchmark





Eco Investment Process – 4 Steps

STEP

Limit the scope of the theme

STEP

Define investment universe

- Business activities make up more than 50% of revenues within the scope of the theme or
- Market leader at least 10% of revenue coming from these activities
- Universe screened for sustainability

TEP 3

Create investment framework

STEP

Create portfolio with sustainable climate change stocks

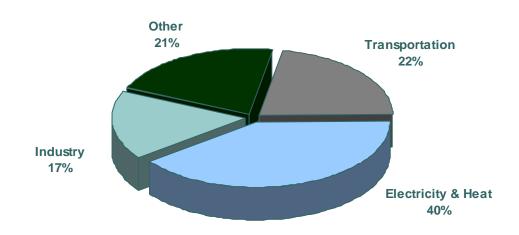
Broad Thematic Definition
SRI Screening
Investible Universe
Theme Selection Stock Picking

Portfolio



Step 1: Limit the Scope of the Theme

Source of Greenhouse Gas Emissions:



Focus on Energy Generation, Usage and Transportation

"The universe reflects the factors and sources of the greenhouse gases causing climate change, the thematic areas where the solutions to climate change lie and the companies that compose each theme"





Step 1: Determine Sectors Driving Climate Change Solutions

Physical temperature, wind, precipitation

Water

- Regulationenvironmentallegislation, subsidies
- Behavioral
 Voluntary actions, client behavior, reputational risk

Cleaner Energy Sources

Energy Efficiency

Better Waste Management

Carbon Credits Trading



Step 2: Define Investment Universe

- Pure Plays primary focus on product/service with an orientation towards climate change mitigation (+50% of revenues).
- Market Leaders diversified companies, market leaders within a particular 'climate change' sector (+10% and market leader)
- Universe screened for Social Responsible Investment (SRI) criteria:
 - O Environmental Impact
 - O Nuclear Energy
 - O Human Rights
 - Military Industry
 - Corporate Governance





Step 3: Create Investment Framework

- Investible universe (300 stocks) = internal benchmark
- Traditional methods of index development misses the potential of the climate change theme (small-mid cap opportunity set).
- Determining the strategic target weights for each climate change sector: Top down macro analysis + bottom up stocks insights (emerging technologies & innovations, ID long-term trends)
- Independent input from external scientists and industry experts: Environmental Advisory Committee (EAC)
- Determine neutral weights of each company within their component climate change sector



Step 3: Strategic Weights for Climate Change Sectors

Water	15%
Cleaner Energy Sources	35%
Energy Efficiency	30%
Better Waste Management 1	
Carbon Credits Trading	10%





Step 3: Strategic Weight Energy Efficiency = 30%

Focus has been on alternative energy

BUT

Definition: Delivering the same or better output with reduced power consumption

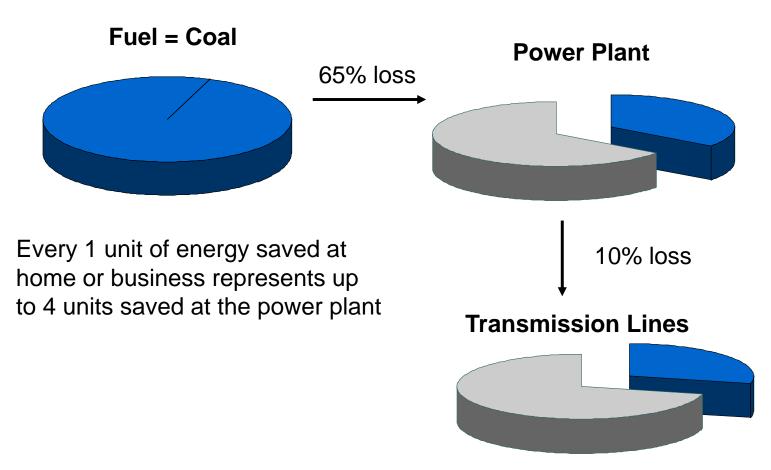
Focus shifting to Energy Efficiency

- Immediate Impact
- Multiplier effect





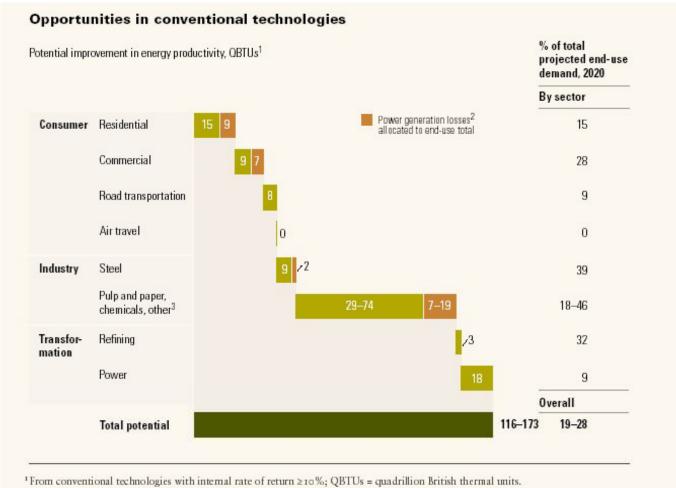
Energy Efficiency Multiplier Effect







Potential Demand Reduction of up to 28% in 2020 through enhanced energy productivity



² For example, during generation and distribution.

Source: McKinsey Global Institute analysis

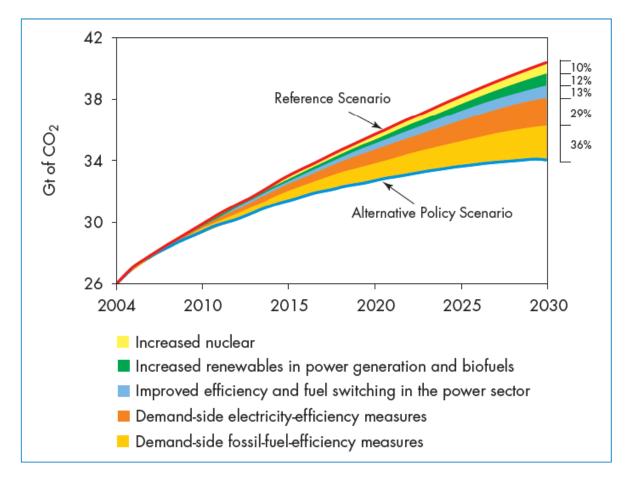


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³ For example, cement, food processing.



2/3 of Projected Co2 emission savings to come from energy efficiency





Source: IEA



Sectors where efficiency measures are most productive: Top down – Bottom up

Transport

- Low Emission Cars
- Biofuels
- Mass Transportation Systems

Umicore

- •D1 Oils
- Canadian Nat.

Buildings

- •Insulation
- Efficient Lighting
- Water Heating
- Control Light and Temp
- Smart Mettering

- St Gobain
- Phillips
- Ceramic Fuel Cells
- Schneider
- •ltron

Power Generation, Transmission & Heavy Industry

- Combined Cycle Gas Turbine
- Super Conducting Technologies
- Control & Instrumentation
- Varibale Speed Drives & Motors
- Critiacl Power

- •ABB
- •American Super
- Conductor
- Schneider
- •ABB
- •Emerson





Step 3: Strategic Weight Clean Energy = 35%

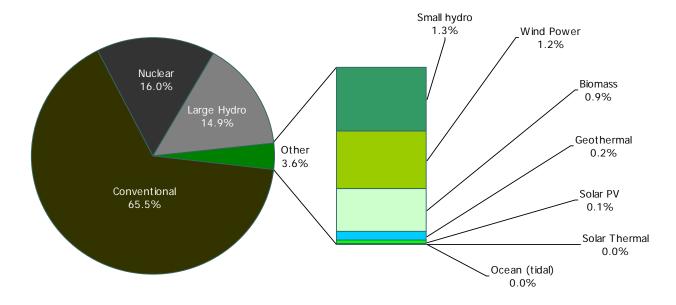
Define Theme Renewable Energy

- Wind
- Solar
- Biofuels
- Fuel CellsWaste to Energy

International Energy Agency:

30% of all energy related Investments in next 30 years will be in renewables

Renewable electricity capacity, share of 2005 electricity production







Multi-Layer: Sectors within Clean Energy Sources

Utilities

15%

Wind Energy

Solar

Fuel Cells

Bio Fuels

Other (Emerging Technologies)

30%

30%

10%

10%

5%





Top down – Bottom up: Clean Energy Sources

Legislation

•Tax Credits in US

•Renewable Energy Law in Germany

Vestas

•Q-Cells

Technology

Close to Commercialisation Emerging Technologies Polysilicon Shortage •Ceramic Fuel Cells

•First Solar

•MEMC Electronic

Pricing

Increasing Electricity Prices Carbon Permits

•Fortum

•lberdrola Ren

Corporate Activity

Industry Consolidation IPOs / PIPEs Scarcity Value

Theolia/Nordex

•Hansen

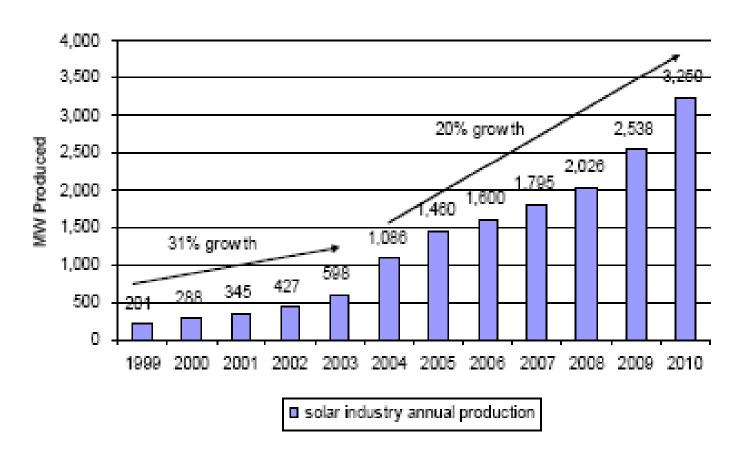
•31.4% Small Caps





Solar Industry – US\$10 billion market

Expected growth rate – 20%+ growth a year







Step 3: Strategic Weight Water = 15%

Define the theme: 'Water Cycle'

Stage 1: Sources of water: ground or surface water

Stage 2: Filtration and disinfection process

Stage 3: Residential, commercial and industrial water use

Stage 4: Secondary disinfection treatment prior to discharge into

the environment

Multi-Layer: Sectors within Water

Water Infrastructure and Equipment

Water Utilities

Water Technologies

40%

35%

25%



Top down – Bottom up: Water

Urban Demand Growth

Infrastructure investment
Repair/replacing and maintenance
Increased water consumption per capita
Desalination

Flowserve Wavin Roper Industries Veolia

Price Increase

Water Pricing
Visibility Within Regulated Utilities

Sabesp Pennon

Outsourcing

Infrastructure, design of water systems Municipals outsourcing water treament United Utilities Arcadis

Tech & Analytics

Analytics for quality and safety
Filtration treatment (legislation)
Metering for increased efficiency/charges

Millipore *Kurita* Badger Meter, *Itron*

Consolidation

Scarcity Value

45% Small Caps



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Step 4: Creating a Portfolio of Superior Climate Change Stocks

- Sector Analysis
- Life cycle of sector
- Structure of value chain
- Bottlenecks in value chain
- Company Analysis
- Life Cycle of company
- Structure & quality of management
- Product & services range
- Positioning in value chain
- Strategic Positioning and vision
- Financials
- **Balance Sheet**
- Access to capital
- Earnings Growth
- Profitability
- Valuation
- FCF Models
- 12mth FW PE
- Sum of Parts
- EV/EBITDA
- Price Targets

•Stock analysis mirrors many sectors in the broad market with adaptation to developing nature of 'climate change' companies.

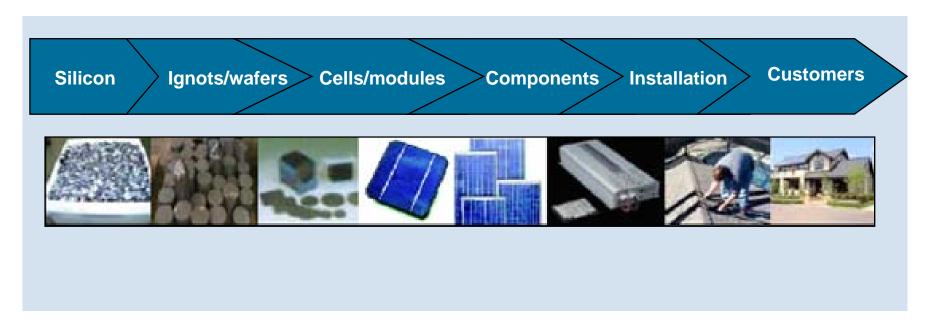
Managing Risk	
Tracking Error	6-8 % vs. universe benchmark
Sector/The me	+ or – 10% of the component theme
Stocks: With Market cap of less than Euro 1bn	+ or – 2% of neutral position
With Market cap of more than Euro 1bn	+ or – 4% of neutral position





Step 4: Solar Industry Value Chain

•Understanding where a company sits within the structure of the value chain for a particular component theme is critical.







Conclusion

- Climate change solutions represent an investment opportunity.
- Identify the key sectors associated with climate change
- Identify the stocks best positioned to deliver innovative solutions within each sector
- Combining fundamental insights with the creative use of quantitative techniques is key for:
 - analyzing and defining sectors within themes
 - constructing an investment universe/benchmark that represents the true potential of the Climate Change theme.
 - building diversified portfolios of superior stocks that are best positioned to deliver strong long term returns within a coherent risk control framework.

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Q&A

Questions?





Liontamer & KBC Asset Management

- Liontamer Investments Limited (AFSL: 306682) is the Australian registered subsidiary of KBC Asset Management NV (KBCAM)
- KBCAM's advantages in the ECO investments space:
 - a pioneering firm in Eco investing globally
 - experienced and dedicated specialist team of ECO Portfolio Managers
 - independent input by experienced scientists and industry experts of the Environmental Advisory Committee (EAC)
 - Socially Responsible Investing (SRI) is a core competence
 - over 7 years experience in constructing and maintaining an Eco investment universe
 - O long established contact network with niche brokers
- For further information please contact:

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This session was:

- 1. awful
- 2. mediocre
- 3. good
- 4. excellent

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