

TITLE:

Investment Themes and Resource Sustainability

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Background

- The NZSF has embedded Investment Themes into its investment opportunity process
 - "long-term influences on the economy and capital markets that are expected to be relatively immune to business cycle and other short-term influences"
- For us to see Themes as an investment opportunity we have to identify what the investible impacts are and the extent to which they have been priced-in
- Given impacts are often "slow burners" subject to uncertainty they will not usually be fully-priced in
- This suits the NZSF's long-term investment horizon endowments -- we have the discipline to wait until markets better reflect thematic influences
- Thinking here is very similar to the Fund's ESG belief
- Themes may also have important top-down portfolio risk implications, e.g. climate change impact on energy holdings

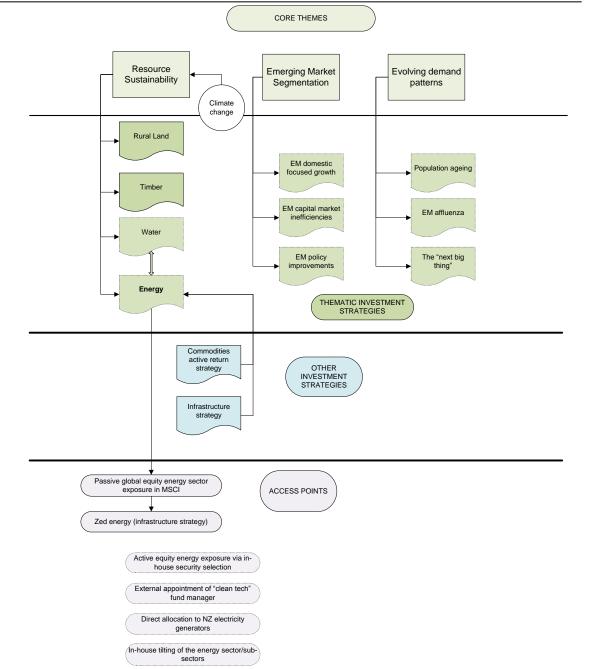


Themes Focus

- The NZSF's high-level themes focus is:
 - Resource Sustainability (climate change important element)
 - Emerging Market Segmentation; and
 - Evolving Demand Patterns.
- The principles behind this are:
 - i. provide broad coverage across the range of thematic influences we can reasonably identify;
 - are aligned with leveraging our endowments and to some extent existing in-house expertise (e.g. in natural resources);
 - iii. are useful to organise the development of new investment strategies and refinement of existing along thematic lines (see over page); and that they
 - iv. are fairly recognisable externally and hence may be used to communicate to external parties the sort of the thematic opportunities we are interested in.
- We develop theme-based investment strategies to pro-actively integrate themes into the portfolio (over-page)

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Themes and Investment Strategies

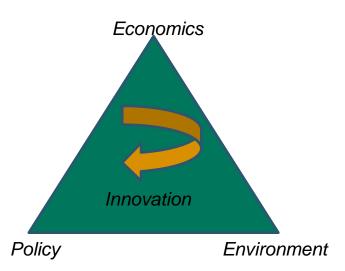




Resource Sustainability Theme

Premise:

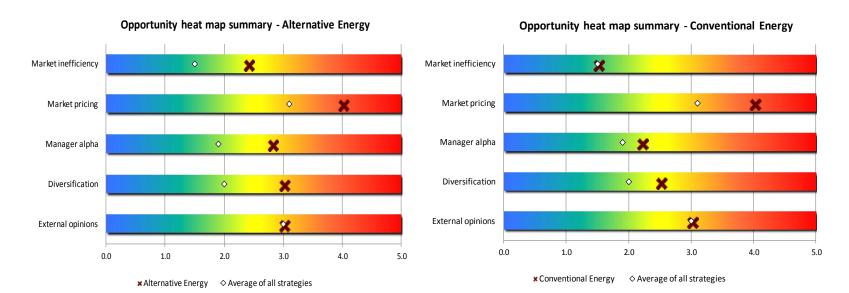
- that resource usage patterns are not sustainable and this presents an active return opportunity because impacts may not been fully factored into prices - myopic investment and policy horizons.
- Strategies developed from the theme may also offer portfolio risk mitigation benefits (e.g. tilt to assets less sensitive to environmental externalities and "stranded asset" problems)
- Heat maps framework rates sustainability-based strategies highly on market inefficiency criteria
- Enables direct integration of the E in the Fund's ESG focus
- Existing strategies highly aligned with theme:
 - Timber, Rural Land, Energy (most recently)
- This theme is the most progressed at the NZSF





Resource Sustainability Theme: Energy Strategy

- Recently-developed Energy Strategy considers:
 - Existing portfolio holdings largely conventional energy given passive exposures to global equities
 - Thematic drivers interaction of climate change, demand and supply trends, technology and policy provides rich mix of risks and opportunities
 - Fit of strategy to the Fund's endowments (long horizon and Sovereign advantages) and preferred investment style (ability of strategy to "shift the dial" and potential for direct and/or flexible mandates).
 - "Heat Map" of conventional and alternative energy sectors suggests mis-pricing, market inefficiency and diversification benefits, particularly in alternative energy





Resource Sustainability Theme: Energy Strategy

Two broad areas prioritised for potential investment:

- Alternative energy and energy efficiency opportunities
 - Focus is on proven generation technologies able to compete with conventional energy to limit technology and policy risks (e.g. geo-thermal, smaller scale hydro, waste-to-energy, some onshore wind and solar).
 - More willingness to take project development risk (alternative energy generation) or market uptake (energy efficiency) risks.
 - Large potential source of opportunity is non-OECD markets where alternative energy investment has been running at a higher level than conventional since 2011 -- overlaps with Fund's EM Segmentation theme
- Infrastructure opportunities associated with the boom in Nth American natural gas fields
 - Natural gas is viewed a key "transition" fuel much lower GHG profile than coal generation and petroleum products used in transportation
 - Major constraint in ability to switch to gas is lack of mid-stream infrastructure (pipelines, storage facilities, etc) and linking of upstream fields
 - Excess returns in the sector partly a function of ongoing lack of "risk appetite" and pull-back of investment banks in this space as a consequence of bank regulation post-GFC
 - Maybe global and NZ opportunities down the track but we are less willing to take exploration risk



Summary

- Investment Themes are an important part of the NZSF's value-adding investment activities.
- Thematic investing requires us to think about **long-term horizons** over which issues such as Climate Change become an important potential source of portfolio risk and opportunity.
- The commercial discipline required is to assess both whether these potential longer run impacts have been "priced in" by markets and the degree of confidence we can have investing into them.
- Resource Sustainability has been a particular thematic focus for the Fund, with an Energy Strategy being the most recent development.