
SUSTAINABLE STRATEGIES OF MALAYSIAN PROPERTY DEVELOPERS

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Abstract

Property development in developing countries provides space for economics activities however property development process and operation of the property are known as major contributor to environment degradation. These activities consume substantial resources and energy, and release greenhouse gasses. By using content analysis, this paper summarized and categorized the sustainable strategies of listed property developers in Malaysia from 2010 to 2014. This paper further examined the correlation of the sustainable strategies with the company characteristics including size, growth, profitability, leverage.

The analysis shows there is no significant correlation between sustainable strategies and the company size. However there are correlation between sustainable strategies and other companies' characteristics including growth, profitability and leverage of the company. This research provides important insight for the industry players for strategic planning and act as a reference for authority to plan for policies related to sustainable development.

Keywords: Malaysia, Property Developer, Sustainable Strategies

Abstrak

Pembangunan hartanah di negara-negara membangun menyediakan ruang untuk aktiviti ekonomi. Walaubagaimanapun, proses pembangunan hartanah dan operasi hartanah dikenali sebagai penyumbang utama kepada pencemaran alam sekitar. Aktiviti-aktiviti ini menggunakan bahan and tenaga yang banyak dan juga melepaskan gas-gas rumah hijau. Dengan menggunakan analisis kandungan, kertas ini diringkaskan dan mengkategorikan strategi mampan pemaju hartanah yang tersenarai di BURSA Malaysia dari tahun 2010 hingga 2014. Kertas ini mengaji secara mendalam tentang korelasi strategi mampan dengan ciri-ciri syarikat termasuk saiz, pertumbuhan, keuntungan, leverage.

Dapatan kajian menunjukkan tiada hubungan yang signifikan antara strategi mampan dan saiz syarikat. Walau bagaimanapun, terdapat korelasi antara strategi mampan dan ciri-ciri syarikat lain termasuk perkembangan, keuntungan dan leverage syarikat. Kajian ini memberikan pandangan yang penting bagi peserta industri untuk perancangan strategik dan bertindak sebagai rujukan bagi pihak berkuasa untuk merancang dasar-dasar yang berkaitan dengan pembangunan lestari.

Kata Malaysia, pembangun hartanah, strategi lestari

1.0 INTRODUCTION

The Bruntland Commission, formerly known as World Commission on Environment and Development defined Sustainable Development as the development which meets the needs of the present without compromising the ability of the future generation to meet their needs.

Property development and operation support the economics development and at the same time known as the major contributor to environment degradation. Its activities require continuous energy consumption, resources consumption, waste generation, and green house gases emission.

Pivo and McNamara (2008) first defined Sustainable and Responsible Property Investment (SRPI) as maximizing positive effects and minimizing the negative effects of property ownership, management and development, on society and the natural environment in a way that is consistent with investor goals and fiduciary responsibilities [1].

Mokhtsim (2014) mentioned that, despite Malaysia yet achieve the title of "sustainable development nation", but the government were looked in-depth about the development planned without destroyed the good environment quality [2]. This was proven when Malaysia government established the Ministry of Energy, Green Technology and Water (MEGTW) which was a result of reshuffle and restructuring of ministries in April 2009. The function of the newly formed ministry including planning, formulating policies and programs in green technology and green township. MEGTW also responsible to coordinate the legislation, policies, guidelines, programs, activities and role of responsible agencies in implementation of Green Neighbourhood. On the other hand, the government allocated RM 1.5 billion as soft loans to the private sector through the Green Technology Financing Scheme.

Despite of the government's effort, the property developers, in which is the party to decide types of property development play important roles in developing green and sustainable building or even township.

Zainal Abidin's (2010) research found the developers in Malaysia are aware of the rising issues on sustainability, but little efforts were generated to support [3]. Bueren & Priemus from Research for Netherland Sustainable Construction pointed out in 2002 that not technical factors but the institutional factors that underlie the fact that sustainable construction has failed [4].

Stefan and Paul (2008) illustrated in their research, conventional wisdom concerning environment protection comes at an cost imposed on firms, and will erode the competitiveness. However, they discovered the paradigm being challenged in the 2000s [5].

In 2005, a study done by Rao on ISO 14001 certified companies proven that the integrated green supply chain ultimately leads to competitiveness and economics performance [6].

It is clear that the property developers wish to know how a developer with sustainable strategy will benefits the company as a whole.

Newell (2008) studied the significance of sustainability practices by the Malaysian property sector and conclude that a number of property companies take strong leadership role in implementing best practice regarding sustainability [7]. Anyway, there is yet attempt on investigating the correlation of companies performance and the sustainability strategies which the industry players keen to know.

This paper aims to study the correlation of the sustainable strategies and the company characteristics, including size, growth, profitability and leverage of property developers.

2.0 METHODOLOGY

Leong (2015) describe Green Developer as developer which incorporate additional green technologies in their project(s) and market themselves as developer that promote green and sustainable development [8].

The population of this study is the property developers listed in BURSA Malaysia under property sector. As in December 2015, there are total of 97 companies list on main board – property. The companies which changed the financial year end during the study period – 2010 to 2014, will be eliminate from the population, the annual reports will consist of financial information which is not at 12 months basis. The companies which are not listed throughout the whole study period will also be eliminated.

Total of 72 companies are listed as sample in this study. The companies were categorized into 4 ranks according to the following criterion.

Table 1 The sustainable strategy ranking criterion

Rank	Description
1	Project won green/sustainable award or Project certified GBI, LEED, Green Mark or Green/sustainable certification or and Published the above achievement
2	Organised green/sustainable conference or Sponsored green/sustainable conference or Introduced green/sustainable features at project level or Adopted green technologies/materials at project level or and Published the above achievement
3	Adopted green/sustainable practises at company level
4	Complied to government regulation

Companies with rank 1 and rank 2 qualified as Green Developers with sustainable strategies.

Companies with rank 3 and rank 4 are considered as companies without sustainable strategies.

Following are number of property developers in each rank. 20 out of 72, which is around 28% of property developers qualified as green developers.

Table 2 Number of companies according to rank

Rank	No. of Companies
1	9
2	11
3	9
4	43
Total	72

The required financial data for each company was obtained from the annual reports filed in BURSA Malaysia and Thomson Reuters Data Stream. Full financial details including balance sheet, income statement, and cash flow statement, were tabulated in excel.

The first analysis involve randomness test to identify correlation between the level of sustainable strategy and the size of the property developer. All companies in the sample were assigned with two ranks, namely, the sustainable strategy rank as above and the ranking for the company size, i.e.: the company with highest assets value will rank 1, follow by the second highest assets value as 2.

The pair of rank were use to do Walk-Wolfwitz test, also called randomness run test to verify the randomness of the data.

Ratios, growth rates and compound annual growth rate (CAGR) of companies' characteristics and performances were derived from the data.

The property developers' characteristics of growth, profitability and leverage are studied in this paper, which includes: revenue growth rate, assets growth rate, liabilities growth rate, share price growth rate, market capitalisation growth rate, average return on equity, average return on assets and debt ratio.

3.0 RESULTS AND DISCUSSION

Walk-Wolfwitz test's results as follow:

Run test for randomness with 31 runs,
p value = 0.12609

Conclusion: No real evident against randomness.

This concludes that the size of company do not correlate to the level of sustainable strategies.

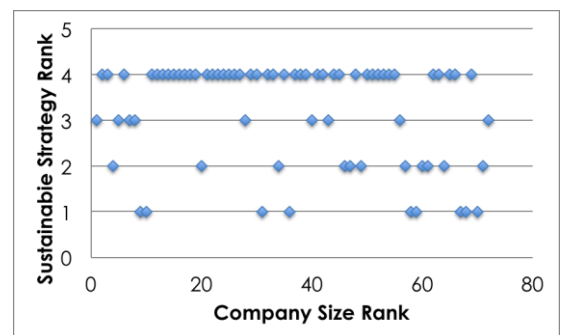


Figure 1 Sustainable strategy rank vs company size rank

Tables below compare the property developers' characteristics and performances between overall industry, conventional developers and green developers.

Table 3 shows the revenues growth for the industry recorded 12% to 20% growth for 2011 to 2013, the green developers recorded higher growth than the conventional developers for all 3 years. In year 2014, the market slowed down and recorded -7% growth for revenue, in which conventional developers made a 1% growth but the green developers suffered 14% dropped in revenue.

It is observed that the green developers revenue growth is more sensitive then the industry as a whole. Overall green developers recorded CAGR at 11%, which is slightly better than CAGR 10% for conventional developers.

Table 3 Revenues growth

Revenues Growth	2014	2013	2012	2011	CAGR
Industry	-7%	20%	12%	19%	11%
Conventional Dev	1%	12%	10%	17%	10%
Green Dev	-14%	29%	14%	20%	11%

Total assets growth for the industry do not show any negative growth throughout the study period. The 0% growth in year 2012 was caused by the -7% growth from conventional developers and was neutralised by the positive 10% growth from the green developers.

The green developers enjoyed a straight 4 years of positive growth for total assets and marked 13% CAGR which is more than double compare to the conventional developers at 5% growth.

Table 4 Total assets growth

Total Assets Growth	2014	2013	2012	2011	CAGR
Industry	10%	10%	0%	13%	8%
Conventional Dev	12%	8%	-7%	7%	5%
Green Dev	9%	12%	10%	21%	13%

Both total assets and total liabilities will give impact to the financial health of a company. The total liabilities for the industry have CAGR at 6%. Throughout the study period, the conventional developers increased and decreased the liabilities and ends up do not accumulate more liabilities but the green developers recorded 14% growth in total liabilities, which is 1% higher than the total assets growth.

Further analysis on leverage will be illustrated in table 9 – debt ratio.

Table 5 Total liabilities growth

Total Liabilities growth	2014	2013	2012	2011	CAGR
Industry	11%	13%	-12%	16%	6%
Conventional Dev	17%	12%	-28%	5%	0%
Green Dev	7%	13%	7%	30%	14%

Cummulative share price is not proportionate to market capitalisation. It is due to the fact that the number of outstanding share are different for each company. Anyway, the cummulative share price give a good indicator on the market confident towards the company, or type of company as a whole.

The industry cummulative share price has CAGR at 8% for 2011 to 2014, the conventional developers contributed in the price increase as the CAGR is 11%. At the same time, the share price of green developer has CAGR -1%, which means the cummulative share price in 2014 is lower than 2011.

In year 2014, both conventional and green developers suffered dipped of share price at 2% and 12%, total up a 4% dropped for the industry. For the same period, KLSE recorded dip of 6%, hence

property industry consider performed better than KLSE in 2014. The CAGR for KLSE index for 2011 to 2014 is 4%, which shown property industry was doing better than KLSE as a whole for the study period.

Looking at the break down, the conventional developers performs better than KLSE but green developers performs lower than KLSE.

Table 5 Share price growth

Share Price Growth	2014	2013	2012	2011	CAGR
Industry	-4%	27%	15%	-2%	8%
Conventional Dev	-2%	31%	16%	3%	11%
Green Dev	-12%	12%	13%	-15%	-1%

Market capitalisation is the product of share price and the number of share. It is the market value of the company. The industry has 3% CAGR, in which conventional developers recorded 9% and green developer recorded -3%. Similar with the share price, the performance of green developers are not as favourable as conventional developers in term of market capitalisation.

Table 6 Market capitalisation growth

Market Cap growth	2014	2013	2012	2011	CAGR
Industry	-2%	7%	16%	-8%	3%
Conventional Dev	1%	25%	12%	0%	9%
Green Dev	-5%	-9%	20%	-16%	-3%

Both return on equity and return on assets measures the profitability of the company. Table 7 illustrates the conventional developers recorded better performance from 2011 to 2013 and green developers has superior performance for year 2014. The performance of conventional developers are more stable compare to the green developers.

Table 7 Average return on equity

Average Return on Equity	2014	2013	2012	2011	2010
Industry	8%	8%	8%	7%	4%
Conventional Dev	8%	8%	9%	7%	5%
Green Dev	9%	8%	7%	6%	2%

Table 8 shows average return on assets, the conventional developers showed more superior performance than green developers for all 5 years.

Table 8 Average return on assets

Average Return on Assets	2014	2013	2012	2011	2010
Industry	6%	6%	6%	5%	3%
Conventional Dev	6%	6%	6%	5%	4%
Green Dev	5%	5%	5%	4%	3%

Debt ratio has formula of total liabilities divided by total assets. The higher the debt ratio means the more the company rely more on liabilities to operate. The industry debt ratio fluctuated from 36% to 38%. The conventional developers always has lower debt

ratio but the green developers have debt ratio range from 41% to 44%.

Table 9 Debt ratio (TL/TA)

Debt Ratio	2014	2013	2012	2011	2010
Industry	38%	37%	37%	38%	36%
Conventional Dev	36%	35%	34%	36%	35%
Green Dev	44%	43%	44%	44%	41%

4.0 CONCLUSION

Many will possibly think larger developers will have higher intention to diversify and be green developers. The research shown the size of the developers do not correlate with the level of sustainable strategy implemented. There are huge developers that do not has sustainable strategy and there are small developers which keen to promote themselves as green developers.

As for the company characteristics and performance, it is found that green developers are more sensitive in term of revenues. They tends to grow more when the maret is growing but lost more business when the market is not good.

Regardless the revenues fluctuation, the assets of green developers increase at a favorable 13% annually. Anyway, the growth of liabilities is faster then the growth of assets, which is at 14% annually. This leads to an increasing debt ratio from 41% in 2010 to 44% in 2014. The green developers should take notes on the high debt ratio and keep it at a tolerable level.

From the share price and the market capitalisation growth, it is found that the market has more

confident in conventional developers compore to green developers.

It is suggest to do future study on the characteristics and performance of green developers rank 1 and rank 2 to capture if there are differences between chracterictics and performance when different level of sustainable strategies are implemented. The insight generate will be very important reference for future strategy generation and policies design.

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