The Impact of Age, Educational Background, Gender, and Monthly Expenditure on the Potential of Green Products Buyers

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ABSTRACT

The level of environmental degradation continues rising to lead a global warming. Without immediate prevention measures, this could bring the Earth into total breakdown. Therefore environmental preservation campaign buzzing for every element of the society to participate in the campaign. Number of people understand and care about environmental degradation and global warming is growing. Many people aim is to influence the lifestyle and consumption pattern of the society. The campaign is to attract and motivate the society to purchase environmentally friendly goods which are also known as green products. The number of potential people to the purchase green products continues rising along with the spread of knowledge concerning the importance of conserving the environment. Such condition recognized by the companies. Therefore they start to consist them as the target market. One of the important marketing aspects is market segmentation. There are many ways and statistical methods to classifying consumers into particular segments: one of the methods is the Chi-squared Automatic Interaction Detector (CHAID). CHAID, it is implemented in this research for green product market segmentation (Segmentation result subsequently used to determination of the following strategic marketing measures). CHAID examines independent variables used in classification and arrangement process based on the level of chi-square statistical significance towards the dependent variable. Dependent variable used in this research is potential customer trend to purchase green products. The result shows that significantly influential variables towards the potential of green products buyers are age, educational background, gender and their monthly amount of expenditure / spending.
Environmental degradation, nature and its content that causes global warming has become a major topic discussed by everyone lately. In fact, the topic has long been concerned by the researchers, scientists, and environmental care activists. Nowadays people share the same concern for the impact of global warming began to get real. The most obvious phenomenon indicating global warming is climate change. For instance, frequent heavy rain in what is supposed to be the period of dry season.

Temperature increase between 0.15 – 0.30 °C (Wikipedia, 2005) throughout the earth has started to happening during 1990-2005. If it continues to increase, the entire north and south polar icebergs would be totally gone by 2040. Subsequently, in case of no improvement to the situation, there will be scarcity of freshwater that could give rise to the problem of hunger around the world by 2050. There will be serious heat, decline in agricultural sectors, freshwater scarcity causing millions of people struggling for food and water. Fumes and dusts will cause shortness of breathing. Coastal residential areas will be submerged by rising sea level, obliterating islands.

The government and environmental care institutions keep on campaigning environment preservation to the societies. Despite the minimum result, the societies began to understand and aware of the importance of preserving the environment. The society is increasingly aware that with even the smallest contribution could help to preserve the environment globally. The condition influences society’s consumption pattern. Nowadays people start to put environmentally friendly product, known as green product, into their list of choices.

Following the growing popularity of environmentally friendly product, thus it is very interesting to determine the products’ marketing strategy. One of the steps in determining the strategy is to identify market segment for consumers or potential consumers interested in the product.

In Indonesia, global warming and environment preservation is popularly discussed in the TV, media, seminars as well as schools. Nowadays almost every element of the society is aware of this. The condition encouraged the people to start appreciate the importance of preventing global warming by way of preserving the environment. They have also further understands that they can contribute, even in a small scale, to help preserve the environment thus prevents global warming from worsening. It encourages some part of the society to change their lifestyle and behavior. Such behavioral change is subsequently studied by the marketers for the sake of capitalizing the opportunity in order to market and sell their product more, which also known as green product marketing or green marketing.

Green product marketing started to be popular in 1980s along with the development of research indicating that earth has been badly damaged and the news has publicized to the society thus influencing their lifestyle (Avro, 2009). Several companies then took a stand to be committed to help prevent the environment degradation. Evidently that such measure gained positive response from the consumers. Consumers support came in the form of the purchase of the companies’ environmentally friendly products. Subsequently the number of companies embracing the same approach increased. Companies intentionally creating campaigns for their product, informing that it was environmentally friendly or green, because it was well received by the public as the consumer. Green marketing is used to boost up the sales.

The number of consumers purchasing green product, also known as the green consumers, is considerable (Robin, 2007). In addition to the growing concern for environment preservation among consumers, the trend shows that green product is becoming increasingly popular among the people. It has become a lifestyle (green style). Reasoning that it does not only help to the environment preservation, green style also considered to bring cost savings to the consumers. Examples of green product are:

- Low-power lamps
- Electronic devices such as refrigerator, air conditioner, computer etc. with low power
- Printer that uses environmentally friendly inks
- Recycled products such as: recycled books, recycled wipes, recycled shopping bags, etc.
- Cosmetics and soaps with environmentally friendly organic ingredient

In a marketing system, a company has to develop strategy by analyzing influential factors to the business, including the available opportunity, regarding its scale and the time period. The following is competition factor regarding its intensity level in the business. Who is the company’s main competitor, what their main advantage is and how to win the competition. The next factor is to analyze the marketing target. To whom the marketing will be carried out by referring the profile of potential consumers.

In case the factors mentioned above have been analyzed, the next step is to determine the target market. Citing Belch (2007), the process is divided into several steps, namely:

- Identifying market
- Market segmentation
- Targeting
- Positioning

In terms of market segmentation, Lehman (2005) suggested evaluating the market segments, the company needs to observe at least two factors: first is the attractiveness of the segment structure, Measurement and growth of the targeted segment and which will generate profitability? Second factor is the goal as well as the company’s ability as they have to determine whether a potential segment comes with the right measurement and growth characteristics for the company. However, although a segment is in accordance with both factors mentioned above, yet incompatible to the company’s goal or does not meet the company’s capability and adequate resources, then the segment is negligible.
There have been many references related with the market segmentation. Nelson (2010) had reviewed the market segmentation, ranging from objective of segmentation, basis of segmentation, basic criteria used, analysis method (Cluster Analysis, Conjoint Analysis, CHAID, Discriminant Analysis). Other author, for example, Thomas (2007) also conducted similar analysis covering geographic segmentation, media segmentation, distribution channel segmentation, price segmentation, psychographic segmentation, demography segmentation and time segmentation. International market segmentation issue and perspective had been reviewed by Steenkamp and Hofstede (2002). They interviewed 25 empirical studies ranging from its sample aspects, geographic configuration, the validation, prospects and its weaknesses. Segmentation using Neural Network had been conducted by Bloom (2005) for South Africa’s tourist market segmentation. The model is also capable to support the analysis of tourist behavioral changes within and between the segments.

After the segmentation, the company is able to implement strategy to the segment. Thompson (2008) briefly explained the strategy to win a competition. The strategy divided based on the nature of the product benefits and targeted market volume. The nature of the product benefits divided into lower-cost or differentiation, as for targeted market volume divided based on extensive or narrow. Combining the two dispositions we will get four different strategies plus another strategy that covers the first whole four strategies. The five strategies can be summarized as follows:

a. Comprehensive low-cost strategy
b. Centralized low-cost strategy
c. Broad differentiation strategy
d. Centralized differentiation strategy
e. Best-cost strategy

After determining the marketing strategy, the next step is to make a plan that includes product decision, price decision, channel of distribution decision, and promotional decision. Indubitably, marketing main goal is for the consumers to purchase the product.

METHODS

Data gathering in the research carries out using survey method that is by conventionally distributing written questions. Respondents are given the question sheet or direct questionnaire to be filled. In this case, respondents know understand clearly that they themselves are part of the observation object and actively participating in the research. The resources of data and research population are group of productive-age employees, assumed to be aged between 2- to 55 year-old. The data were collected from Bandung that considered representing Indonesia’s big cities. Sampling method performed using simple random sampling method from various segments, types of occupations, gender. The sample will be picked randomly in various public locations in Bandung.

The research formed based on number of references obtained from respondents describing variables structured within green product potential buyer characteristic or in other words to acquire green product potential buyer segmentation. To develop the segmentation, analysis method used is statistical analysis method, Chi-squared Automatic Interaction Detector (CHAID).

Lehman (2001) explained the steps towards CHAID analysis. First step in CHAID analysis is to create two-way contingency table equipped with its dependent variables, in which Y as the dependent variables and X as predicator variables. Next calculate the p-value for each of the chi-square value in pairs to assess the level of significant or not. Among the insignificant pairs, combine the most similar category pair (the pair with smallest paired chi-square value) into a single category. For certain combined category composed of 3 or more categories, conduct a trial to find whether a particular independent variable category should be separated by testing its significance between the category with other category within the combined category. In case of significant chi-square value result, separate the category with others. In case of more than one category that are available for separation, separate one of them with the highest chi-square value.

Gallagher (2000) further describe four steps in the use of simple CHAID analysis namely: (1) Examine each independent variables using chi-square test to determine which category could significantly indicates the difference within dependent variables and to collect all insignificant categories; (2) Determine the best or the most significant independent variables to be used in differentiating the dependent variables; (3) to split the data using the independent variable category with the most significant data; (4) examine the remaining independent variables category to determine the most significant level in specifying differences in the subsequent dependent variables and separate them with the insignificant; (5) determining which independent variables the most significant and then continued with dividing the data using the variables. Subsequently to repeat the five steps mentioned to identify all subgroups.

Gallagher (2000) suggestion is to conduct data testing based on the merged table. Data testing is needed to know whether there is any significant correlation between the factors. It is considered as independent or statistically free in case of insignificant correlation between them. The significance testing performed with Chi-Square Test ($\chi^2$) as shown in Table 1.

<table>
<thead>
<tr>
<th>Variable X</th>
<th>Y1</th>
<th>Y2</th>
<th>...</th>
<th>Yn</th>
</tr>
</thead>
<tbody>
<tr>
<td>X1</td>
<td>n11</td>
<td>n12</td>
<td>...</td>
<td>n1n</td>
</tr>
<tr>
<td>X2</td>
<td>n21</td>
<td>n22</td>
<td>...</td>
<td>n2n</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Xn</td>
<td>nnn</td>
<td>nnn</td>
<td>...</td>
<td>nnn</td>
</tr>
<tr>
<td>Total</td>
<td>$n_*$</td>
<td>$n_*$</td>
<td>$n_*$</td>
<td>$n_*$</td>
</tr>
</tbody>
</table>

Table 1. Chi-Square Test Contingency Table

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Based on the table, we can get the expected value or counted $E_{ij}$ using the formula as follow:

$$E_{ij} = \frac{n \cdot n_{ij}}{n}$$

The formula used in Chi Square is:

$$\chi^2 = \sum \sum \frac{(n_{ij} - E_{ij})^2}{E_{ij}}$$

When the error probability value (p-value) $< \alpha$ level of significant then H0 is rejected and H1 accepted which means both factors are interrelated. Yet when error probability value (p-value) $> \alpha$ level of significant then H0 is acceptable and H1 is rejected which means both factors are not interrelated. Level of significant or $\alpha$ used in the research is 5% (0.05).

The analysis continued with selecting the best independent variables, that is the one with the lowest p-value, and then make groups distribution with the independent variables, by using each of the independent variable categories that have been merged optimally to determine the sub division.
from the master group into new sub groups. The group divisions cannot be done if there are no independent variables with significant p-value.

Segmentation process and CHAID result can be made into tree diagram, as shown in figure 1.

Based on explanation by Lehman (2001) CHAID tree diagram works top down, in which the diagram set from main groups, continued by sub groups structured successively based on result of main groups division in accordance with certain criteria. Each of the nodes in the diagram represents sub group from observed sample. Every node will be consisting of sample entirety and absolute frequency for each category above. In CHAID classification tree, there is term of depth resembling sample into two or more groups based on certain criteria. Then divide the groups into smaller group based on other independent variables. Proceed until there are no statistically significant independent variables left. Dependent variable used in the research is potential buyer that will be the target of green product marketing. Dependent variables divided into two categories:

a. Green product potential buyer consumers,

b. Green product non-potential buyer consumers.

The dependent variables acquired from several questions directly indicating whether the respondent come under as potential buyer or not. Whereas independent variables can be acquired from the analysis of product purchase decision-making.

RESULTS AND DISCUSSION
CHAID analysis result to determine interrelation between independent variables towards dependent variables can be acquired with the assistance from SPSS 17.0 software as shown in Table 2.

From the result of Chi-Square test mentioned above, thus it is known that the variables with correlation or affecting potential buyer towards green product are Age variable and Education by reason of its p-value level is lower compared to level of significance (Q) of 0.05. Subsequently after running level of significance test on several variable level and categories, Age variable is taken as first node.

The next step in CHAID analysis is jointing stage. In the research, Age variable divided into 4 categories:

- below 23-year-old
- 23 – 30-year-old
- 31 – 40-year-old
- over 40-year-old

Based on CHAID analysis through the search of level of significance from amalgamation possibilities, thus the category of below 23-year-old amalgamated with category of 23 – 30-year-old and 31 – 40-year-old. Rescaling in change of Age Category variable to become as follows:

- Below of equal to 40-year-old.
- Over 40-year-old.

The amalgamation was done for the composition qualify chi-square significant requirement, which is p-value level below 0.05 and the biggest chi-square. It indicates that group of over 40-year-old has the tendency of ignorance towards environment thus probably considered to be included as non-potential buyer in green product marketing. There is a chance that the age group’s level of understanding and knowledge regarding environment is low, thus they bear the tendency of ignorance towards preservation of the environment.

After acquiring significance value on each step, the next step is to repeat the same CHAID analysis with limited respondent for the category below or equal to 40-year-old. Next step, highest level of significance referring to Education variable, then continued with its categories amalgamation process. Education categories prior to the amalgamation are:

- Elementary/Junior High
- High School/equal
- Diploma/equal
- Under/Post graduate

And based on chi-square level of significance, then the category of Elementary/Junior High amalgamated with category of High School/Equal.

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Table 2. Chi-Square Potential Buyer Test Result for Green Product Between Dependent Variable and Respondent Demographic

<table>
<thead>
<tr>
<th>Variable</th>
<th>chi-square test</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>3.461</td>
<td>0.061</td>
</tr>
<tr>
<td>Marital Status</td>
<td>0.069</td>
<td>0.753</td>
</tr>
<tr>
<td>Age</td>
<td>20.088</td>
<td>0.000</td>
</tr>
<tr>
<td>Education</td>
<td>28.859</td>
<td>0.000</td>
</tr>
<tr>
<td>Occupation</td>
<td>6.713</td>
<td>0.152</td>
</tr>
<tr>
<td>Occupation Field</td>
<td>18.014</td>
<td>0.084</td>
</tr>
<tr>
<td>Monthly Expenditure</td>
<td>9.156</td>
<td>0.057</td>
</tr>
</tbody>
</table>
The category of Diploma/Equal amalgamated with Under/Post graduate. After the amalgamation to become as follows:
- High School/Equal and below
- Diploma/Under/Post graduate

It indicates that education is highly correlated to green product potential buyer. Community groups with lower-middle level education will have less understanding and knowledge of environment. This has led the community group into slight ignorance towards environmental preservation, let alone the potential of green product purchase.

The following Chi-square analysis indicates Gender variable with highest significance on narrowed total respondent number. On this stage, the amalgamation is not necessary. There are only two categories, which are:
- Male
- Female

Total number of male category considered as green product potential buyer is equal with the female that is 68, however each category’s percentage vary with male category potential buyer as much as 79% (68 compared to 86), while the female is as much as 92% (68 compared to 74). Thus in percentage female category is larger than the male category. This indicates that women have greater tendency to be green product potential buyer compared to man.

The process then retested to find if there were any significant variables left. Variable that can still be examined is the variable of monthly expenditure. This variable should also be amalgamated, the category of less than Rp. 1 Million to be amalgamated with the category of Rp. 1-2 Million, whereas the category of Rp. 2-3 Million amalgamated with the category of Rp. 3-5 Million and the category of less than Rp. 5 Million. The results of the amalgamation are as follows:
- Less than or equal to 2 Million
- Over 2 Million.

This proves that monthly expenditure affects green product potential buyer, in which the bigger the amount of monthly expenditure, the bigger the chance to be green product potential buyer.

CHAI D analysis process mentioned above and its amalgamation process can be described in CHAI D classification tree as shown in the figure 2. The figure clearly shows the nodes along with its Chi-square analysis result.

Figure 2. shows that there are four variables with significant result namely Age, Education, Gender and Monthly Expenditure. In addition to that, CHAI D analysis result classification tree diagram has four depths up to no variable correlated with its dependent variable left. Whereas variables with no correlation namely Marital Status, Occupation and Occupation.

Level of p-value and chi-square test from each independent variable considered to be in correlation with dependent variable left. Whereas variables with no correlation namely Marital Status, Occupation and Occupation.

The four variables in Table 3 have the value of less than α = 0.05. The conclusion is that chi-square test is to reject H0 or in other word that the variables have the correlation with dependent variable, that is green product potential buyer.

Tree diagram in Figure 2. shows that the market can be divided into five segments, namely:
- 1st Segment Potential buyer of age < 40-year-old, education of Diploma/under/ post graduate, female and monthly expenditure of > Rp. 2 Million.
- 2nd Segment Potential buyer of age < 40-year-old, education of Diploma/under/ post graduate, female and monthly expenditure of < Rp. 2 Million.
- 3rd Segment Potential buyer of age < 40-year-old, education of Diploma/under/ post graduate, male.
- 4th Segment Potential buyer of age < 40-year-old, education of High school/ Equal or below.
- 5th Segment Potential buyer of age > 40-year-old.

From the five segments formed will be used to calculate both green product potential and non-potential buyer as shown in Table 4.

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**Table 3. Level of P-Value & Chi-Square Green Product Potential Buyer Towards Demography of Respondents**

<table>
<thead>
<tr>
<th>Variable</th>
<th>chi-square test</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>18.907</td>
<td>0.000</td>
</tr>
<tr>
<td>Education</td>
<td>7.174</td>
<td>0.007</td>
</tr>
<tr>
<td>Gender</td>
<td>5.129</td>
<td>0.024</td>
</tr>
<tr>
<td>Monthly Expenditure</td>
<td>6.892</td>
<td>0.009</td>
</tr>
</tbody>
</table>

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Therefore based on the tabulation results of table 4 it is found that the first segment has the largest percentage of potential buyers (100%), nevertheless, the third segment has the most total number of potential buyers compare to the other four segments. The first segment has a characteristic of age less or up to 40 years, Diploma/Bachelor/Master holders, and female with big expenditure more than Rp. 2 million per month, while the third segment has a characteristic of age less or up to 40 years, Diploma/Bachelor/Master holders, and male. Here can be seen that the two segments have the equation in the age variable (less than or up to 40 years) and education variable (Diploma/Bachelor/Master holders). And the difference starts from the sex variable. Based on the results of CHAID analysis, it turns out that male’s variable is not determined by the big expenditure per month, while female’s variable still can be classified based on the big expenditure per month. In other words, men are the potential buyers for the green product regardless how big their expenditures are, whereas for women, they can be a potential buyer for the green product when the big expenditure is more than Rp. 2 Million per month. These results show us that job, occupation and marital status are irrelevant with the target of green product’s marketing.

Marketing of the green product has good prospects for this present day and future. As predicted, for this product the number of potential buyers will continue to grow. This is due to:

- Environmental conservation cannot be compromised any longer, this effort is essential and absolute to be done for all mankind, so it’s not only the responsibility and obligation of the scientist nor for the government. This effort of environmental conservation will continue to be pursued and campaigned in order to be implemented by all mankind. It will become a lifestyle.
- Higher education will give knowledge and awareness to consumers about the importance of environmental conservation, which will then affect their lifestyle and consumption pattern.
- The energy that gets more expensive day by day will bring the people to finally think about preservation of the environment, which will then lead to consumers who purchase the product will feel that they have to help preserve the environment, or have been saving energy consumption. And if the product offered is addressed to women, it is necessary to observe any possible additional variable; those are women who care enough about preserving the environment, or those who are willing to participate in environmental conservation effort. They are willing to change their consumption patterns on their attitudes towards the environmental destruction and its preservation.

Referring to the strategy explained by Thomson (2008) as previously discussed, currently the green product marketing is under the category of differentiation product. While on the market target side, the green product marketing is categorized under the wide market target. Therefore, the green product market should set its product differently from its competitors. This can be emphasized through its different package, unique advertisement, and unique product appearance without turning aside its message or identity where the product is environmental friendly or energy efficient. So that consumers who purchase the product will feel that they have to help preserve the environment, or have been saving energy consumption. And if the product offered is addressed to women, it is necessary to observe any possible additional variable; those are women who have a big expenditure more than 2 million per month. For further strategic implementation is discussed in the following section.

Tabel 4. Tabulation of Green Product Potential Buyer and Non-potential CHAID Analysis Result

<table>
<thead>
<tr>
<th>Segment</th>
<th>Total</th>
<th>%</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>38</td>
<td>100%</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>2</td>
<td>30</td>
<td>83%</td>
<td>6</td>
<td>17%</td>
</tr>
<tr>
<td>3</td>
<td>68</td>
<td>79%</td>
<td>18</td>
<td>21%</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>40%</td>
<td>3</td>
<td>60%</td>
</tr>
<tr>
<td>5</td>
<td>20</td>
<td>51%</td>
<td>19</td>
<td>49%</td>
</tr>
</tbody>
</table>

For companies that cannot afford to provide professional R & D divisions are suggested to think wisely, before entering this market. Thus it can be assumed that this market is classified as low competition factor, and hard entering this market for the other new players.

Target marketing or the potential buyers are those consumers who care enough about preserving the environment, and those who are willing to participate in environmental conservation effort. They are willing to change their consumption patterns on their attitudes towards the environmental destruction and its preservation.

Therefore based on the tabulation results of table 4 it is found that both men and women can be the potential buyers for the green product with the additional variable for women, big expenditure with more than 2 million per month. Therefore, it is determinable from the beginning whether the product was created for multigender or intended for men or women only. If the product is intended for men and multigender, then the target marketing is a wide differentiation strategic. This strategic is applied when the benefit of the product is differentiated or different with other competitors’ products. The product may be in a high price because it comes from the professional research & development (R&D) divisions to achieve a product differentiation, the expensive cost of the target can be covered with a large market, while companies continue to improve themselves to tighten the cost in order to make a greater profit. If the product is offered for women, then the product must have a particular style. That doesn’t mean feminism is needed to be shown, but it is needed to make women take their choices whether to buy or not to buy a product. Women tend to buy a product based on recommendations of their friends, family or other people, they are like detectives, firstly, they have to know the profit and benefit of certain items before purchasing it, especially highly educated women. The products should be able to recommend themselves. Women are also concerned with shape, color, packaging and others associated with a particular style that is able to build a certain perception. Therefore, products must be designed as beautiful as possible, unique, and so forth. Women are also easily attracted to an additional bonus when buying a particular product, although that additional product is not needed, or not at all useful. The important thing is they feel like gaining some advantage rather than buying another product without any bonus. Therefore, once again, the products to be marketed in green product should really add additional values in order to satisfy consumers.

In terms of marketing green product, pricing or price...
seems to be quite sensitive if the segmentation is addressed for women, considering the presence of a big variable expenditure more than 2 million per month for women. But it is not hard if the segmentation is addressed for men. Potential buyers can receive a higher price as long as they feel satisfy with the profit or benefit gained from the green product. Companies can set their prices high, while continuing to do the research to keep the production cost, in order to make a greater benefit. Moreover, basically the production cost of green product is quite high, considering producers will need to do the research and keep on developing to make the green product. But if consumers were disappointed as they did not get the products as promised, then that product will soon be abandoned because consumers will feel like they have been cheated, they did not get any benefit for the money they had spent.

Suitable promotions with the selected segment are suggested to fulfill a few things, as follows:

- Complete information, considering the segment is a group of consumers who have higher education (Diploma/Bachelor/Master holders). Information can be offered through brochures, catalog, packaging, etc. If necessary have a website on the internet, so it would be easier for the potential buyers to get the information needed about the product.
- Be consistent in giving friendly messages about the environment, this purpose will lead the potential buyers to buy some products. Therefore, they need to be convinced about the value consistently, because if a product is set to enter the market of green product, there is no cancelation and we cannot change market’s direction. If not, then the product will be abandoned.
- In sales, if necessary, place the sales force directly (personal selling). Additionally salesperson may play the role as consultant to explain how that product can help consumers to prevent environmental damage.

CONCLUSION

Research result of green product marketing, using CHAID analysis generates five potential buyer, as follows:

- **Potential buyer of age < 40-year-old, education of Diploma/Under/Post graduate, female with monthly expenditure of > Rp. 2 Million.**
- **Potential buyer of age < 40-year-old, education of Diploma/Under/Post graduate, female with monthly expenditure of < Rp. 2 Million.**
- **Potential buyer of age < 40-year-old, education of Diploma/Under/Post graduate, male.**
- **Potential buyer of age < 40-year-old, education of High School/Equal or below.**
- **Potential buyer of age >40-year-old.**

From the result of the analysis mentioned above, there are several managerial implications made into consideration in making decision, as follows:

1. The first segment need to be prioritized in the green product marketing target is those potential customer with the following group classifications: Age segment of less or equal to 40-year-old female, education of Diploma/Under/Post graduate, with monthly expenditure of > Rp. 2 Million;

2. Second target need to be worked out is the group of potential customer with the following classification: Age segment of less or equal to 40-year-old male, education of Diploma/Under/Post graduate, male;

3. It is recommended that green product marketing to adapt product differentiation strategy targeting the niche market or combination targeting market specialization and product specialization towards segmentations mentioned above.

4. Green product marketing may ignore the variables of occupation, field occupation, and marital status for the reason that those variables do not have any significant correlation with green product potential buyer.