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The Influence of Green Marketing, Green Awareness and Green Product Innovation on Purchase Decision

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ABSTRACT

This research aims to identify and analyze the influence of Green Marketing, Green Awareness, and Green Innovation Products on Purchasing Decision. (Studi pada konsumen AQUA Life di Sunter Agung, Jakarta Utara). The research uses quantitative methods with consumer populations that have purchased environmentally friendly products from Sunter Agung, North Jakarta communities. The samples were selected using purposive sampling techniques, with 206 respondents. Data were collected through questionnaires and analyzed using a double linear regression method to determine the relationship and influence of independent variables (green marketing, green awareness, green product innovation) to dependent variables Purchase decision. This study uses the analysis method of Partial Least Square. (PLS). The results of this study indicate that: (1) green marketing has a significant positive effect on purchasing decision of AQUA Life product customers in Sunter Agung. (2) green marketing has a positive and significant effect on purchasing decision of AQUA Life customers in Sunter Agung. (3) green product innovation does not have a positive and insignificant effect on purchasing decision of AQUA Life product customers in Sunter Agung.

Keywords: Green Marketing; Green Awareness; Green Product Innovation; Purchase.

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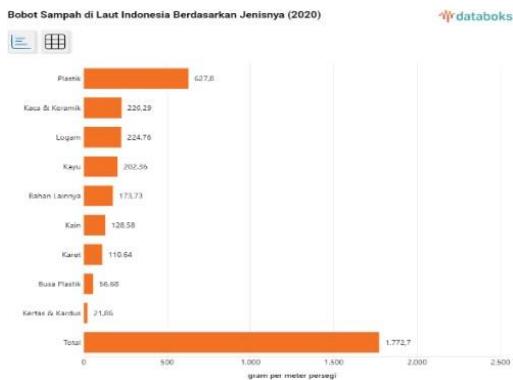
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INTRODUCTION

Globalization has heightened public concern for environmental issues such as deforestation, pollution, and plastic waste. In Indonesia, plastic bottle waste is a major problem due to increasing AMDK consumption driven by population growth and modern lifestyles. Its non-biodegradable nature poses significant environmental risks. Sukiman and Salam (2021) report that Indonesia generates 175,000 tons of waste daily, with plastic bottles comprising 15%. Addressing this issue aligns with SDGs 12 (responsible consumption) and 14 (marine ecosystem protection). Carelessly discarded plastic bottles contribute to severe marine pollution, emphasizing the need for collective action to reduce waste and promote sustainability.

Figure 1. Data on the Weight of Garbage in Indonesian Seas Based on Type



Source : Databoks (2020)

In 2020, plastic waste was the largest contributor to marine pollution in Indonesia, reaching 627.8 g/m², far surpassing glass & ceramics (226.29 g/m²) and metal (224.76 g/m²). This issue stems from high plastic consumption and inadequate waste management from households, industry, and tourism, threatening marine ecosystems. Reducing single-use plastics and enhancing recycling are critical solutions. Apriliani and Aqmala (2021) highlight the importance of public awareness in driving eco-friendly behavior. Aqua, with a 46.7% market share since 1973, leads Indonesia's bottled water industry through strong distribution, marketing, and brand trust, maintaining its dominance over competitors.

Figure 2. Bottled Water Market Share



Source : Tempo.com (2019)

Despite Aqua's dominance in the bottled water market, competition remains fierce, with rivals like Club (4%), Le Minerale (3.5%), and 2 Tang (2.8%) expanding through innovation and marketing. New entrants, such as Le Minerale, focus on differentiation with natural mineral content. With over 500 industry players, Aqua must maintain loyalty through innovation and distribution. Indonesia's bottled water market, valued at IDR 22.51 trillion in 2013, is growing at 11.1% annually. Per capita consumption (91.04 liters/year) remains lower than in Thailand

and the U.S., offering growth potential. Aqua's strong market position provides an advantage, but adapting to trends and maintaining consumer trust are crucial. PT. Tirta Investama (Danone-Aqua) also drives sustainability through the #BijakBerplastik campaign, promoting recycling and eco-awareness.

Table 1. Top Brand Indeks AMDK 2021-2023

Merek	Top Brand Indeks		
	2021	2022	2023
AQUA	62.50%	57.20%	55.10%
Le Minerale	4.60%	12.50%	14.50%
Ades	7.50%	6.40%	5.30%
Cleo	3.70%	4.20%	4.20%
Club	5.80%	3.80%	3.50%

Source : Top Brand Award (www.topbrand-award.com)

It can be seen in table above in 2021-2023 the AQUA brand experienced a decline in the Top Brand Index. This decline was caused by the many alternative choices of AMDK on the market. The change in the Top Brand Index decline was also seen by the Danone-Aqua company to create mineral water with environmentally friendly packaging in order to reduce plastic waste.

AQUA Life, a Danone-Aqua product, features 100% recycled and recyclable plastic packaging, reinforcing its green marketing strategy. Research highlights various factors influencing purchasing decisions. Wibowo and Santoso (2024) found green marketing crucial, while Rayon and Widagda (2021) emphasized environmental ads. Sukiman and Salam (2021) identified green awareness as key in AQUA purchases, and Lestari (2020) added price, brand image, and social influence. Putri et al. (2023) noted green product innovation enhances brand perception and sales, while Islamey and Maskur (2023) linked innovation, brand image, and location to consumer interest.

LITERATURE REVIEW

Purchase Decision

Kotler and Armstrong (2018) define purchasing decisions as part of consumer behavior, involving the selection, purchase, and use of products to satisfy needs. It is a key stage in decision-making, where consumers recognize problems, evaluate alternatives, and choose products based on preferences.

Green Marketing

Jamal et al. (2021) describe green marketing as offering products and services that meet consumer needs while minimizing environmental harm. Nazir et al. (2021) emphasize eco-friendly production, while Rayon and Widagda (2021) highlight its relevance due to environmental concerns influencing purchases. Gunawan et al. (2020) note its role in reducing plastic waste, and Wibowo and Sabardini (2024) stress its goal of meeting consumer needs while reducing environmental impact.

Green Awareness

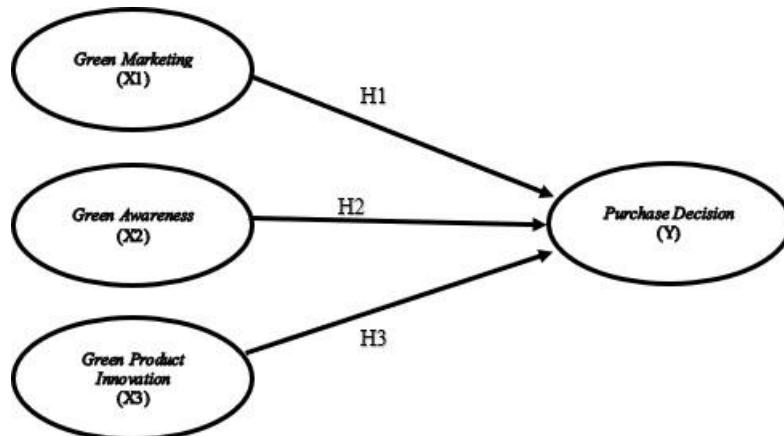
Alamsyah et al. (2018) define green awareness as consumer behavior toward eco-friendly products, linked to their purchasing decisions. Abdulai et al. (2020) describe it as understanding

the impact of human activities on the environment and actively participating in sustainability efforts.

Green Product Innovation

Ahmed & Qureshi (2021) define green product innovation as using sustainable materials, recycled packaging, and minimizing resource use to enhance environmental performance. Pangesti (2023) states it fosters competitive advantage by improving design, quality, and energy efficiency while reducing waste and pollution across a product's life cycle.

Figure 4. Conceptual Framework



Hypothesis :

H1: Green Marketing has a positive and significant effect on Purchase decision.

H2: Green Awareness has a positive and significant effect on Purchase decision.

H3: Green Product Innovation has a positive and significant effect on Purchase decision.

METHOD

This study, conducted in Sunter Agung, North Jakarta, from June 2024 to January 2025, examines the impact of Green Marketing (X1), Green Awareness (X2), and Green Product Innovation (X3) on Purchase Decisions (Y) using a descriptive causal associative approach. A Likert scale was used to measure respondents' attitudes and perceptions. The population consists of AQUA Life consumers in Sunter Agung, chosen for its high bottled water consumption and diverse environmental awareness levels. The sample, determined through purposive sampling, includes male and female consumers, with a minimum of 206 respondents based on Hair et al. (2021). Data was collected via questionnaires and analyzed using Partial Least Square (PLS) with SmartPLS 3.0, following Ghazali (2021) to assess the measurement model, structural model, and hypothesis testing.

RESULTS AND DISCUSSION

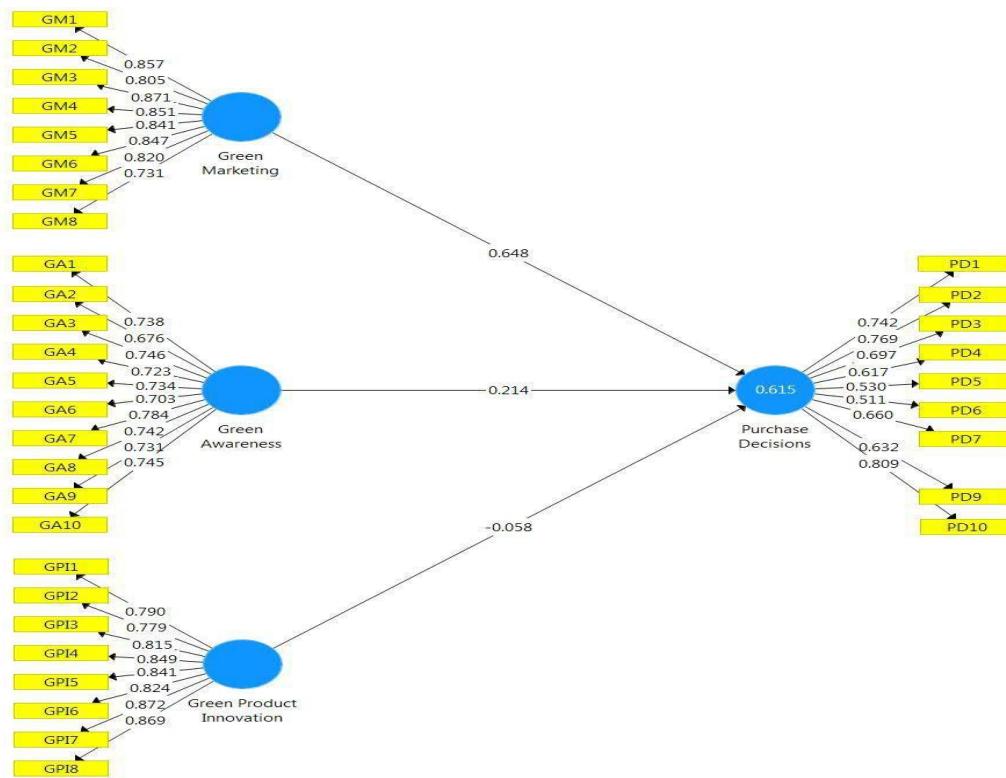
The loading factor test is related to the principle that indicators in a variable should be highly correlated with each other. According to Sugiyono (2020), an indicator is said to have good validity if the loading factor value is ≥ 0.7 . In empirical research experience, a loading factor value of ≥ 0.5 is still acceptable. Some experts even tolerate the number 0.4. Thus, a loading factor value <0.4 must be removed from the model. The following is a description of the results

of the convergent validity test on the variables Green Marketing, Green Awareness, Green Product Innovation, and Purchase decision.

Table 3. Loading Factor

Variable	Indicator	Outer Loading	Information
Green Marketing	GM1	0.857	Pass the Test
	GM2	0.805	Pass the Test
	GM3	0.871	Pass the Test
	GM4	0.851	Pass the Test
	GM5	0.841	Pass the Test
	GM6	0.847	Pass the Test
	GM7	0.820	Pass the Test
	GM8	0.731	Pass the Test
Green Awareness	GA1	0.738	Pass the Test
	GA2	0.676	Pass the Test
	GA3	0.746	Pass the Test
	GA4	0.723	Pass the Test
	GA5	0.734	Pass the Test
	GA6	0.703	Pass the Test
	GA7	0.784	Pass the Test
	GA8	0.742	Pass the Test
	GA9	0.731	Pass the Test
	GA10	0.745	Pass the Test
Green Product Innovation	GPI1	0.790	Pass the Test
	GPI2	0.779	Pass the Test
	GPI3	0.815	Pass the Test
	GPI4	0.849	Pass the Test
	GPI5	0.841	Pass the Test
	GPI6	0.824	Pass the Test
	GPI7	0.872	Pass the Test
	GPI8	0.869	Pass the Test
Purchase Decisions	PD1	0.742	Pass the Test
	PD2	0.769	Pass the Test
	PD3	0.697	Pass the Test
	PD4	0.617	Pass the Test
	PD5	0.530	Pass the Test
	PD6	0.511	Pass the Test
	PD7	0.660	Pass the Test
	PD9	0.632	Pass the Test
	PD10	0.809	Pass the Test

Figure 5. Outer Model



Based on the test results in Table 3, it shows that all indicators have met the outer loading criteria because they have a loading factor value ≥ 0.5 .

Convergent validity is related to the principle that the measuring indicators (manifest variables) of a construct should be highly correlated (Ghozali, 2021). According to Ghozali (2021), the rule of thumb commonly used to assess convergent validity is that the average variance extracted (AVE) value must be greater than 0.50.

Table 4. Average Variance Extracted (AVE)

Variable	Average Variance Extracted (AVE)	Information
Green Marketing	0.687	Valid
Green Awareness	0.537	Valid
Green Product Innovation	0.690	Valid
Purchase Decisions	0.545	Valid

Based on the table above, it can be concluded that all AVEs of each construct have correlations between constructs and other constructs in the model with an AVE value > 0.5 .

Discriminant validity test uses the Fornell-Larcker Criterion value. If the square root value of AVE for each construct is greater than the correlation value between constructs with other constructs in the model, then the model is said to be good. The following are the results of the Fornell-Larcker Criterion test:

Table 5. Fornell Lacker Criterium

Variable	<i>Green Marketing</i>	<i>Green Awareness</i>	<i>Green Product Innovation</i>	<i>Purchase Decision</i>
<i>Green Marketing</i>	0.829			
<i>Green Awareness</i>	0.825	0.733		
<i>Green Product Innovation</i>	0.779	0.710	0.831	
<i>Purchase Decision</i>	0.772	0.679	0.656	0.738

Based on the table, all AVE roots (Fornell-Larcker Criterion) exceed their correlations with other variables, confirming validity. Discriminant validity is further assessed using the Heterotrait-Monotrait Ratio (HTMT), which ensures a construct is more strongly related to its own indicators than to others in the model. An HTMT value below 0.9 indicates good discriminant validity (Hair et al., 2021). The following are the HTMT test results:

Table 6. Heterotrait-Monotrait Ratio

	<i>Green Marketing</i>	<i>Green Awareness</i>	<i>Green Product Innovation</i>	<i>Purchase Decision</i>
<i>Green Marketing</i>	0.897			
<i>Green Awareness</i>	0.897	0.851		
<i>Green Product Innovation</i>	0.843	0.781	0.721	
<i>Purchase Decision</i>				

Table above shows that all construct relationships have values below 0.9, confirming good discriminant validity based on the Heterotrait-Monotrait Ratio. Reliability testing, using composite reliability, ensures instrument consistency in the research model. A construct is considered reliable if both composite reliability and Cronbach's alpha are ≥ 0.7 (Hair et al., 2021). The results confirm that all constructs meet reliability criteria.

Table 7. Composite Reliability & Cronbach's Alpha

Variable	Composite Reliability	Cronbach's Alpha	Information
<i>Green Marketing</i>	0.935	0.946	Reliable
<i>Green Awareness</i>	0.904	0.920	Reliable
<i>Green Product Innovation</i>	0.936	0.947	Reliable
<i>Purchase Decision</i>	0.833	0.877	Reliable

The composite reliability and Cronbach's alpha values for each latent variable exceed 0.70, confirming measurement consistency and reliability. Therefore, all tested variables are reliable and suitable for further analysis. In PLS models, the R-square value measures how well exogenous variables explain the endogenous variable. An R-square between 0.25–0.50 is weak, 0.51–0.75 is moderate, and above 0.75 is strong, indicating a better model fit.

Table 8. R Square

Variabel	R Square	R Square Adjusted
<i>Purchase Decision</i>	0.615	0.609

The R-square value for Purchase Decision is 0.615, meaning 61.5% of its variance is explained by Green Marketing, Green Awareness, and Green Product Innovation, while the remaining 38.5% is influenced by other factors. A higher R-square indicates a stronger explanatory power of the independent variables. The effect size (F^2) test measures the impact of exogenous variables on endogenous ones. According to Hair et al. (2021), $F^2 \geq 0.35$ signifies a large effect, 0.15–0.35 a medium effect, 0.02–0.15 a small effect, and below 0.02 no meaningful effect.

Table 9. F-Square

Variabel	Green Marketing	Green Awareness	Green Product Innovation	Purchase Decisions
<i>Green Marketing</i>				0.263
<i>Green Awareness</i>				0.032
<i>Green Product Innovation</i>				0.003
<i>Purchase Decisions</i>				

Based on Table above, the F^2 value for Green Marketing is 0.263, indicating a moderate impact on Purchase Decision. Green Awareness has an F^2 of 0.032, showing a low influence, while Green Product Innovation, with an F^2 of 0.003, has no meaningful effect. To assess predictive relevance, Q^2 values are used. According to Hair et al. (2021), a Q^2 value above 0 confirms predictive relevance, with 0.02–0.15 indicating low relevance and 0.15–0.35 indicating moderate relevance.

Table 10. Q Square

Variabel	<i>Q</i> - Square atau Q^2
<i>Purchase Decision</i>	0.215

Thus, this model is said to have moderate relevant predictive value and is worthy of use. This indicates that the model has very good predictive ability and can be relied on for further analysis. This stage tests the relationship between exogenous and endogenous latent variables using the bootstrapping procedure. According to Hair et al. (2021), the Bias-Corrected and Accelerated (BCa) Bootstrap method should be used to assess path coefficient significance. Alternatively, significance can be determined by a p-value < 0.05 . Path coefficients range from -1 to +1, with values near +1 indicating a strong positive relationship and near -1 a strong negative one. A hypothesis is accepted if the T-Statistic is ≥ 1.96 ; otherwise, it is rejected.

Table 11. Hypothesis Test

Relationship between Variables	Original Sample	St Dev	T-Statistics	P-Values	Information
<i>Green Marketing -> Purchase Decision</i>	0.672	0,660	5.434	0.000	Positive and Significant
<i>Green Awareness -> Purchase Decision</i>	0.918	0,213	2.227	0.026	Positive and Significant
<i>Green Product Innovation -> Purchase Decision</i>	-0.069	0,102	0.679	0.497	Not Significant

Hypothesis testing shows that Green Marketing significantly impacts Purchase Decisions ($T = 5.434$, $P = 0.000$), confirming H1. Effective green marketing, especially eco-themed ads, enhances brand preference, aligning with Wibowo and Santoso (2024). Green Awareness also positively influences Purchase Decisions ($T = 2.227$, $P = 0.026$), supporting H2. Consumers prioritize eco-friendly products, consistent with Lestari (2020) and Iswanti et al. (2021), who highlight environmental concern, brand image, and social influence. However, Green Product Innovation does not significantly affect Purchase Decisions ($T = 0.679$, $P = 0.497$), leading to H3's rejection. This contradicts Islamey and Maskur (2023), who found sustainable innovation enhances consumer interest.

CONCLUSION

This study confirms that Green Marketing and Green Awareness positively influence Aqua Life consumers' Purchase Decisions. Stronger environmental promotions and awareness increase consumer preference for Aqua products, driven by sustainability-focused marketing. However, Green Product Innovation does not significantly impact Purchase Decisions, suggesting that eco-friendly innovations alone do not drive consumer choices. For practical applications, AQUA Life should enhance green marketing through eco-themed ads, eye-catching packaging, and loyalty programs like bottle return incentives. Social media and influencer campaigns can boost acceptance of green innovations. Theoretically, sustainability messaging should be reinforced across all marketing channels, and consumer education must be prioritized to build trust in green product innovations.

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