

## DIGITAL MARKETING AND CONSUMPTION OF ENERGY DRINKS IN SOUTH WEST NIGERIA

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### Abstract

*This study investigated the relationship between exposure to digital marketing of energy drinks intake among youths in the South West Nigeria. The study examined the impact of digital marketing on youths' consumption habits and the perceived risks and benefits of energy drinks. A quantitative cross-sectional research approach was adopted, with primary data collected through a structured questionnaire administered to 292 youths years in Lagos and Oyo states. Respondents were chosen using a convenience sampling method, ensuring diversity in terms of gender and socio-economic backgrounds. The data were analyzed using descriptive statistics, including frequency counts, mean, percentage. The findings revealed that the majority of youths consume energy drinks moderately, with social media being the primary platform for exposure to digital marketing campaigns.*

**Keywords:** Consumption Habits, Digital Marketing, Energy Drinks, Perceived Risks, Youths

## 1.0 INTRODUCTION

The Energy Drink (ED) sector has experienced remarkable growth in Nigeria's Fast-Moving Consumer Goods (FMCG) market. This growth is attributed to factors such as increasing energy drink intake among youths, aggressive marketing strategies, and the rapid adoption of digital technologies. Digital marketing has emerged as a pivotal tool for companies to engage with their target audience, foster brand awareness, and drive consumption. Youths, typically aged between 18 and 35 years, are considered highly impressionable and responsive to digital marketing campaigns. The Nigerian Youth Policy (2019) defines youths as individuals between the ages of 18 and 35. Given the substantial role of digital marketing in shaping intake patterns, it is critical to understand how these marketing strategies impact the intake behaviour of young in South-West Nigeria.

Research in this area has been growing, with several studies exploring the connection between energy drink intake and digital marketing. Notable studies, including those by Nishant et al. (2023), Ibrahim et al. (2021), Douglas and Nkporbu (2018) have indicated a positive and significant relationship between digital marketing activities and the increased intake of energy drinks. These studies, however, have largely been conducted in different geographical and socio-economic contexts, and there is limited research focusing on the specific dynamics of digital marketing's impact on youth consumption of energy drinks in South-West, Nigeria.

The growing prevalence of energy drink intake among youths in the South-West region raises important questions about the broader implications of this trend. While energy drinks are marketed as products that enhance physical and mental performance, their consumption has been linked to a range of potential health risks such as increased heart rate, high blood pressure, and the possibility of addiction, especially when consumed in large quantities. The potential negative health effects of energy drink consumption, compounded by the persuasive influence of digital marketing, present a cause for concern. In light of these concerns, there is a pressing need for research that examines the impact of digital marketing on the intake of energy drinks among youths in South West Nigeria. This study aims to fill this gap by investigating the influence of digital marketing on the intake behaviour of youths in the South West region of Nigeria. The specific objectives of this study are to determine the level of intake of energy drinks among youths in the South West region of Nigeria; examine the commonly used digital marketing platforms by energy drink brands; ascertain the extent of digital marketing activities used by energy drink companies in the South West region of Nigeria; identify the potential risks and benefits of digital marketing in the energy drink industry in the South West region of Nigeria.

## **2.0 LITERATURE REVIEW**

### **2.1 Digital Marketing**

Digital marketing refers to the use of digital channels to communicate and sell products and services. Desai et al. (2019) describe it as the act of promoting goods or services through the use of digital technology, primarily the internet, mobile devices, display advertising, and other digital media. Buchanan (2018) holds the view that digital marketing is any form of advertising disseminated through digital technologies, such as social media, websites, blogs, advergames (branded goods or adverts integrated into interactive games), mobile devices, and text messaging. Measuring digital marketing campaigns requires tracking and analysing various metrics to determine the effectiveness of the online marketing efforts. Gregory (2024) identifies some metrics that are important for measuring the success of digital marketing efforts, including website performance, social media engagement, email marketing, paid advertising, lead generation, sales, customer metrics, and search engine optimisation (SEO).

### **2.2 Energy Drinks**

Energy drinks (EDs) have steadily gained popularity over the past 20 years. Buchanan et al. (2017) describe energy drinks as "a non-alcoholic caffeinated beverage category often consumed to deliver an energy boost or for mental alertness." Douglas and Nkpordu (2018) refer to energy drinks as fortified non-alcoholic drinks that include additional nutritional supplements such as sweeteners and sugar derivatives (such as glucuronolactone and ribose), herbal extracts (such as Guarana, ginseng, and ginkgo biloba), amino acids (which may include instils, niacin, pantothenic acid, and B-complex vitamins), and stimulants like caffeine (methylxanthine-containing), yohimbine, and taurine.

Energy drink intake among Nigerian youths is increasing (Adeyemi & Olorunfemi, 2023). They attribute this to the abundance of energy-stimulating products and the ease with which youths can access them. It is also possible that exposure to digital marketing channels, which the majority of youths, including those in South West Nigeria, are known to have embraced, could also be a contributing factor.

### **2.3 Digital Marketing and Youth Intake Behaviour**

The influence of digital marketing on youths' intake of energy drinks is examined by Buchanan (2018). The study posits that young people's interest in and desire to consume energy drinks increase as a result of exposure to digital marketing. The study noted that young adults are an important target demographic for energy drink producers and may be reached through social media and other digital marketing channels. Yinusa et al. (2017) reported that young adults who are exposed to digital marketing campaigns have a higher intention to purchase energy drinks and are more likely to consume them in the future. Their decision to buy or consume energy drinks is not dependent on the corporate

social responsibility (CSR) efforts made by the companies, but rather on the enticing digital content that the energy drink companies promote.

#### **2.4 Energy Drink Intake among Youths**

Ibrahim et al. (2021) reported the growing global market for energy drinks, particularly among young people and college students. They believe this has led energy drink producers to shift their attention from athletes to young people. In Nigeria, particularly in the South West, youths' exposure to energy-sapping activities has resulted in their preference for energy drinks for daily tasks. However, it is perceived that youths, especially students and athletes, abuse energy drinks as an easy and quick way to increase academic and athletic performance, as well as mood stimulation. This is partly why energy drink intake is on the rise among young people and adolescents today.

Meanwhile, Douglas et al. (2018) believe there are several factors influencing energy drink consumption. They identify these factors as peer pressure, advertising, curiosity, enjoying free time, remaining awake for extended periods, enjoying the flavour, and the need for energy-boosting. Other factors include reducing fatigue, enabling longer periods of driving, and aiding in studying or working on major projects.

Digital marketing presents a transformative approach to business promotion as it provides numerous benefits such as global reach, cost-effectiveness, real-time analytics, and personalised customer engagement (Khan *et al.*, 2024). Businesses can target audiences more precisely and foster stronger brand-consumer relationships through platforms such as social media, email, and search engines. However, these advantages are accompanied by significant risks. One of such risks includes data privacy and security concerns as digital marketing relies heavily on personal data collection and analysis. Mishandling of such data can lead to breaches, legal penalties, and erosion of consumer trust. Ethical issues also arise from manipulative advertising techniques and misinformation which may compromise consumer autonomy (Botes, 2023). Small enterprises face other challenges such as limited access to advanced digital tools and disadvantages within algorithm-driven ecosystems that often favour larger firms. To balance these dynamics, researchers stress the need for ethical standards, transparent data practices, and regulatory compliance in digital marketing strategies. A critical understanding of both its potential and pitfalls is essential for sustainable and responsible digital marketing implementation.

#### **2.5 Theoretical Review - Theory of Planned Behaviour (TPB)**

The theoretical review aims to investigate the relationship between digital marketing and youths' intake behaviour in the energy drink sector in South West Nigeria. It will also consider the role of social media advertising and exposure to online energy drink marketing in shaping youths' intake behaviour. The theoretical framework for this study is based on the Theory of Planned Behaviour (TPB).

TPB was proposed by Ajzen (1991). It is a well-established social psychological framework used to explain and predict human behaviour. The TPB guided the central focus of this research, which was to examine whether digital marketing influenced the intake behaviour of youths in South West Nigeria. According to TPB, behavioural intentions are influenced by three key factors: attitudes towards the behaviour, subjective norms, and perceived behavioural control (Ajzen, 1991). In the context of energy drink consumption, attitudes towards energy drinks are shaped by various factors, including personal experiences, health beliefs, taste preferences, perceived benefits, and perceived risks (Ajzen, 1991; Buchanan et al., 2017). Digital marketing and online advertising play a significant role in influencing these attitudes by presenting energy drinks as desirable and beneficial, particularly among the youth population (Buchanan, 2018).

Subjective norms refer to an individual's perception of social pressure to engage in or avoid a behaviour. In the case of energy drink consumption, subjective norms can be influenced by digital marketing and social media advertising that portray energy drink intake as a normative behaviour among youths (Ajzen, 1991; Rambe & Jafeta 2017). This can be reinforced through the use of influencers or celebrities endorsing energy drinks on social media platforms (Chung-Ying et al., 2022).

## **2.6 Empirical Review**

Numerous studies have highlighted the significant impact of digital marketing on youths' intake behaviour in the energy drink sector. Buchanan, Kelly, and Yeatman (2017) conducted an exploratory investigation that revealed how exposure to digital marketing increases young adults' interest in energy drinks. In Nigeria, studies such as Douglas and Nkporbu (2018), Yunusa et al. (2014), and Sholeye et al. (2022) have shed light on the prevalence of energy drink intake among university students, young athletes, and adolescents. The empirical review highlights the need for further research on the impact of digital marketing on energy drink intake among youths in South West Nigeria. This study aims to contribute to the existing body of knowledge by examining the influence of digital marketing on the intake behaviour of youths in the South West region of Nigeria.

### 3.0 METHODOLOGY

The study adopted cross sectional survey research design, using quantitative research technique to investigate the relationship between exposure to digital marketing of energy drinks and intake behaviours among youths. Primary data for this study was obtained using a structured questionnaire administered to 292 youths drawn from two local governments, each selected from the two largest states/cities (Lagos and Oyo states) in the South West of Nigeria. The respondents were aged between 15 and 35 years and confirmed that they consume energy drinks.

A convenience sampling method was employed to select participants from tertiary institutions and other local indigenes or residents in the selected local government areas. Efforts were made to ensure diversity in terms of gender and socio-economic backgrounds. To ensure the study complied with ethical research requirements, consent to participate was sought. Participants were required to indicate their willingness to participate in the study; they were not coerced or compelled in any way. The researchers made efforts to ensure that participants were fully aware of their rights, including the right to withdraw from the study at any time, and that their responses would remain anonymous. These research ethics were explained to each participant before their involvement in the study.

As a result of the unknown population of the study, the Cochran sample-size formula was used to develop the sample size for each of the four local government area selected for the study.

$$n = \frac{p(1-p)z^2}{e^2}$$

n= sample size

p = population proportion = 0.05 (on the assumption that 5 out of 100 people have this condition)

e = acceptable sampling error (e= 0.05)

z = z value at reliability level (0.05) or significance level (95%) = 1.96

$$n = \frac{0.05(1-0.05)1.96^2}{0.05^2}$$

$$n = \frac{0.05(0.95)1.96^2}{0.0025} = 72.9904 = 73 \text{ samples per local government area.}$$

Therefore, a sample size of about 73 sample respondents per LGA results into a total sample size of  $73 \times 4 = 292$  respondents.

A structured questionnaire was deployed to collect data on participants' exposure to digital marketing of energy drinks, intake behaviours, perceived benefits, risks of digital marketing of energy drinks, and demographic information. The items in the questionnaire were derived from existing literature to ensure validity. The construct on energy drink intake was derived from Kuhangana et al. (2022) and Degirmenci et al. (2018). The digital marketing of energy drinks domain was mainly derived from the

studies by Buchanan et al. (2017). The items on perceived risks and benefits of digital marketing were extracted from Puupponen et al. (2023).

The collected data were entered and transformed into statistical analysis software using SPSS version 25. The demographic data from the questionnaire were summarised and presented using descriptive statistics. Measures of dispersion (such as standard deviation, frequencies, and percentages) were used to describe the demographics and responses.

## 4.0 RESULTS AND DISCUSSIONS

### 4.1 Socio – Demographics Profile of Respondents

Table 1 presents the demographic profiles of the respondents. The results are shown in Table 1 below:

**Table 1: Demographic profile of respondents**

Category	Frequency	Percentage
Gender		
Male	171	58.6%
Female	121	41.4%
Total	292	100%
Age at last birthday		
15 - 19yrs	45	15.40%
20 – 35	247	84.60%
Total	292	100%
Highest Educational Level		
Secondary schools	10	3.40%
Undergraduate	198	67.80%
Graduate	80	27.40%
Post Graduate	4	1.40%
Total	292	100%
Employment status		
Unemployed	100	34.20%
Employed	118	40.40%

Apprentice	16	5.50%
Self Employed	58	19.90%
Total	292	100%
How often do you use the internet daily (games, social media, movies etc):		
<2hrs	4	1.40%
2-4hrs	56	19.20%
>4hrs	232	79.50%
Total	292	100%

**Source: authors' computation (2024)**

Among the respondents, males constitute the majority, representing 58.6% (171 out of 292) of the sample, while females account for 41.4% (121 out of 292). This indicates a predominance of male participants in the dataset.

The age distribution reveals that the majority of participants fall within the 20–35 years age range, comprising 84.6% (247 out of 292) of the total sample. In contrast, only 15.4% (45 out of 292) of the respondents are aged between 15 and 19 years. This suggests that the population is primarily composed of young adults, with a significantly smaller proportion of younger individuals.

In terms of educational qualifications, the largest group of respondents are undergraduates, representing 67.8% (198 out of 292) of the sample. A further 27.4% (80 out of 292) are graduates, indicating a relatively well-educated sample. Only 3.4% (10 out of 292) have completed secondary education, while a very small minority, 1.4% (4 out of 292), have pursued postgraduate education. These findings suggest that the sample is predominantly in higher education or has completed undergraduate studies, with postgraduate education being relatively rare.

The data on employment status shows that 40.4% (118 out of 292) of respondents are employed, while 34.2% (100 out of 292) are unemployed. Additionally, 19.9% (58 out of 292) are self-employed, and 5.5% (16 out of 292) are apprentices. The relatively high proportion of unemployed individuals may reflect the sample's young age, with many respondents potentially still in education or early in their careers. The presence of self-employed individuals indicates a degree of entrepreneurial activity within the group.

Regarding daily internet usage, a striking 79.5% (232 out of 292) of respondent's report spending more than 4 hours online each day. A further 19.2% (56 out of 292) use the internet for between 2 to 4 hours, while only a small fraction, 1.4% (4 out of 292), use the internet for less than 2 hours. These findings suggest a high level of engagement with the internet, with the majority of participants spending extensive periods on activities such as social media, gaming, and streaming content.



**Level of Intake of Energy Drinks among Youths****Table 2: Level of energy drink consumption**

Category	Option	Number of Responses	Percentage (%)
Weekly Intake (Cans)	1-3 cans	120	41.10%
	4-6 cans	95	32.50%
	7-9 cans	50	17.10%
	10+ cans	27	9.30%
Most Consumed Energy Drink	Red Bull	120	41.10%
	Monster	80	27.40%
	Power Horse	40	13.70%
	Blue Bullet	30	10.30%
	Fearless	15	5.10%
	Others (Please Specify)	7	2.40%
Factors Influencing Consumption	Taste	100	34.20%
	Boosting of energy	110	37.70%
	Perceived social class	30	10.30%
	Peer pressure	20	6.80%
	Online advertising and marketing effect	25	8.60%
	Alcohol Mix	5	1.70%
	Other (Please Specify)	2	0.70%
Occasion for Consumption	Sports	60	20.50%
	Study	80	27.40%
	Gaming	60	20.50%
	Work	40	13.70%
	Social occasions (e.g., partying)	30	10.30%
	Free time (e.g., relaxing)	15	5.10%
	Other (Please Specify)	7	2.40%

The data indicate that energy drink intake among youths in the South West region of Nigeria is predominantly moderate. Specifically, 41.1% of respondents consume between one and three cans per week, representing the largest intake group. An additional 32.5% report consuming between four and six cans weekly, suggesting that a majority of youths (73.6%) exhibit moderate intake patterns, defined here as one to six cans per week. In contrast, a smaller proportion of respondents consume higher quantities, with 17.1% consuming between seven and nine cans weekly, and a further 9.3% reporting intake of ten or more cans. These figures suggest that, while the majority of respondents are moderate

consumers, a notable minority engages in high-frequency consumption, which may raise health considerations regarding caffeine and sugar intake among this subset.

The primary factors influencing energy drink intake among youths appear to align with the intrinsic qualities of the product, such as its energy-boosting properties and taste, rather than external or social pressures. Boosting energy is the most cited factor, with 37.7% of respondents identifying it as the primary reason for consumption, followed closely by taste, which accounts for 34.2% of responses. The influence of perceived social class (10.3%), peer pressure (6.8%), and online advertising (8.6%) are secondary considerations, with a smaller number of respondents citing alcohol mixing (1.7%) or other factors (0.7%). These findings suggest that youths in this region are primarily motivated by the functional benefits of energy drinks, with the sensory appeal of taste also playing a significant role in intake decisions.

### Commonly Used Digital Marketing Platforms by Energy Drink Brands

**Table 3: Digital marketing platforms of energy drinks**

Category	Option	Number of Responses	Percentage (%)
Online Platform for Energy Drink Ads	E-Mail	40	13.70%
	Social media	150	51.40%
	Websites	70	23.90%
	Apps	32	10.90%
Most Seen Social Media Platform for Energy Drink Ads	Facebook	100	34.20%
	Instagram	120	41.10%
	WhatsApp	20	6.80%
	Twitter	40	13.70%
	Thread	7	2.40%
	Others (Please specify)	5	1.70%
Frequency of Energy Drink Ads While Browsing the Internet	Never	20	6.80%
	Rarely	40	13.70%
	Sometimes	70	23.90%
	Often	100	34.20%
	Always	62	21.20%

Among the digital channels examined, social media emerged as the dominant platform for energy drink marketing, with 51.4% of respondents identifying it as the primary medium for these advertisements. This strong preference for social media suggests that energy drink brands are capitalising on the interactive and widespread nature of these platforms to reach a youthful audience more effectively. Meanwhile 23.9% of respondents reported websites as a common platform for energy drink ads, indicating that traditional web-based channels remain a significant component of digital marketing strategies.



**Extent of Digital Marketing Activities used by Energy Drink Companies****Table 4: Digital marketing activities used by energy drink companies**

S/N	Statement	SD	D	N	A	SA	Mean
1	Energy drink companies use digital marketing channels (e.g., social media, websites, apps) to promote their products to youths in South West Nigeria.	18 (6.2%)	35 (12.0%)	45 (15.4%)	110 (37.7%)	84 (28.8%)	3.71
2	Energy drink companies frequently engage in social media campaigns, including posts and sponsored content, to interact with youths in South West Nigeria.	12 (4.1%)	28 (9.6%)	40 (13.7%)	120 (41.1%)	92 (31.5%)	3.86
3	Influencer endorsements are often employed by energy drink companies in South West Nigeria to promote their products to youth through digital marketing.	25 (8.6%)	40 (13.7%)	55 (18.8%)	105 (36.0%)	67 (23.0%)	3.51
4	Digital marketing efforts of energy drink companies significantly influence my awareness and interest in their products.	15 (5.1%)	30 (10.3%)	35 (12.0%)	110 (37.7%)	102 (34.9%)	3.87
Overall Mean							3.74

Table 4 revealed a significant usage of digital channels to engage young consumers in the South West region of Nigeria. Digital platforms such as social media, websites, and mobile apps were frequently employed, with a mean score of 3.71 implying their integral role in promotional strategies. Social media campaigns such as posts and sponsored content, were particularly prominent, with a mean score of 3.86, indicating strong agreement among respondents regarding their frequent use for brand communication. This highlights social media's effectiveness in fostering direct engagement and brand visibility. Influencer endorsements, while moderately employed (mean score of 3.51), were recognised as a key strategy, enhancing brand credibility among youths. Finally, digital marketing's overall impact on consumer awareness and interest was substantial, with a mean score of 3.87, reflecting the significant role digital strategies play in shaping youth engagement with energy drink brands. This suggests that digital marketing, particularly via social media and influencer partnerships, is a crucial tool in influencing youth perceptions and intake of energy drinks.

**Potential Risks and Benefits of Digital Marketing in the Energy Drink Industry****Table 5: Potential Risk and Benefit of Energy Drink**

<b>Statement</b>	<b>SD (1)</b>	<b>D (2)</b>	<b>N (3)</b>	<b>A (4)</b>	<b>SA (5)</b>	<b>Mean Score</b>	<b>Ranking</b>
Energy drinks provide an effective energy boost to consumers.	10	20	40	100	122	4.08	1
Regular intake of energy drinks may lead to health risks, such as increased heart rate.	15	30	55	85	107	3.98	2
Intake of energy drinks can alter sleeping patterns.	18	50	70	75	79	3.7	3
Excessive intake of energy drinks may lead to negative health effects, including dehydration.	22	28	62	90	90	3.83	4
Energy drinks help me to increase my mental alertness.	5	10	30	110	137	4.21	5

Table 5 showed that the most highly rated benefit, with a mean score of 4.21, is the enhancement of mental alertness. This suggests that energy drinks are seen as effective in improving focus and cognitive performance. These finding positions mental alertness as a key selling point to make digital platforms like social media particularly suitable for targeting consumers such as students and professionals, who seek these cognitive benefits.

Energy drinks are also strongly perceived to provide an effective energy boost, with a mean score of 4.08, which ranks as the second most positive attribute. This reinforces the idea that digital marketing campaigns focused on energy-boosting benefits are likely to resonate well with consumers. However, the recognition of potential health risks, such as increased heart rate (mean score of 3.98), disrupted sleep patterns (3.7), and dehydration (3.83), poses challenges for energy drink brands. These concerns highlight the need for responsible messaging in digital marketing, particularly on platforms where health-conscious consumers are active.

Given these risks, it is essential for brands to adopt a balanced approach in their campaigns. While promoting the benefits, such as energy and mental alertness, they must also educate consumers on the potential dangers of overconsumption. Digital platforms could effectively deliver this balanced message through interactive content such as apps or informative websites, to ensure consumers make informed decisions.

### Discussion of Findings

The intake of energy drinks among youths in the South West region of Nigeria is predominantly moderate, with 73.6% of respondents consuming between one and six cans per week. This finding is consistent with the growing popularity of energy drinks among young people globally, as highlighted by Adeyemi and Olorunfemi (2023). They attribute this rise in intake to the accessibility and appeal of energy drinks, particularly among students and professionals. Moreover, the moderate intake observed in this study suggests that energy drinks are seen as a convenient source of energy, but not necessarily a daily necessity.

Social media platforms are the most frequently used digital marketing channels by energy drink brands, with 51.4% of respondents reporting exposure to energy drink ads on these platforms. This aligns with findings from studies such as those by Patient et al (2017) and Buchanan (2018), companies to target young consumers. The extensive use of platforms like Facebook, Instagram, and YouTube for advertisements is a reflection of how deeply integrated digital marketing is in shaping the intake behaviours of youths, as these platforms offer direct access to the desired demographic.

The perceived benefits of energy drinks, such as enhanced mental alertness (mean score of 4.21) and energy boosting (mean score of 4.08), are strongly recognized by the youth. These benefits align with the findings of Douglas et al. (2018), who emphasize the appeal of energy drinks for students and professionals seeking to improve performance. The outcome of this study is also consistent with the work of Adepoju and Ojo (2014), who pointed out the potential health risks of energy drink consumption. Despite these risks, the allure of the benefits continues to drive consumption, which accentuates the role of digital marketing in framing energy drinks as a solution to common challenges faced by youths.

### CONCLUSION AND RECOMMENDATIONS

The study set out to examine the relationship between exposure to digital marketing of energy drinks and intake behaviors among youths in the South West region of Nigeria. The findings revealed that moderate intake of energy drinks is prevalent among youths, with social media serving as the most common platform for digital marketing campaigns. A significant portion of youths acknowledged the perceived benefits of energy drinks, particularly in enhancing mental alertness and energy levels, which influenced their intake choices. However, concerns over the potential health risks of energy drink intake were also highlighted, indicating a balanced awareness of both the positive and negative aspects of these products.

Based on the research findings, the study recommends the following:

Given the popularity of energy drinks among youths and the potential health risks identified in this study, there is a need for stronger regulatory policies governing the marketing of energy drinks, especially on digital platforms. This should include clear guidelines on the targeting of young consumers, particularly through influencer endorsements and social media advertisements.

Stakeholders such as health organisations and educational institutions should initiate campaigns to raise awareness among youths about the potential risks of excessive energy drink consumption. These campaigns should focus on providing balanced information that highlights both the benefits and the health concerns associated with energy drinks.

Energy drink companies should diversify their product offerings by promoting healthier alternatives that maintain the benefits of energy boosting without the associated health risks. This can be achieved through research and development into more sustainable and health-conscious formulations.

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