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The effect of green organizational culture and green intellectual capital on green competitive advantage through green human resource management: Residential sector

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Abstract

This study aims to determine the effect of Green Organizational Culture and Green Intellectual on Green Competitive Advantage through Green Human Resource Management at The Taman Dayu", Green Eleven Residential. Using quantitative methods, data were collected from 170 employees of PT Ciputra Development Tbk's "The Taman Dayu" and Green Eleven Residential properties. The SEM-PLS analysis revealed significant direct effects, with GOC (β =0.302, t=4.180, p<0.001) and GIC (β =0.369, t=5.625, p<0.001) both positively impacting GCA. GHRM showed a substantial direct effect on GCA (β =0.282, t=4.485, p<0.001) and served as a significant mediator, with GIC's indirect effect through GHRM being β =0.130 (t=3.574, p<0.001) and GOC's indirect effect being β =0.103 (t=3.150, p=0.002). The model explained 64.8% of GCA variance (R²=0.648) and 51.2% of GHRM variance (R²=0.512), demonstrating moderate predictive power. These findings highlight that GHRM can mediate the relationship between GIC and GCA directly; on the other hand, Green Human Resource Management (GHRM) can mediate the relationship between Green Organizational Culture (GOC) and Green Competitive Advantage (GCA) effectively. To create a Green Competitive Advantage, organizations need to integrate GHRM with broader and long-term green strategies. Human resource management of environmentally oriented companies must result in the organization's ability to absorb knowledge from the organization's dynamic external environment to be combined with existing knowledge and form new knowledge so as to create new knowledge.

Keywords: Green competitive advantage (GCA), Green human resource management (GHRM), Green intellectual capital (GIC), Green organizational culture (GOC).

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1. Introduction

Environmental issues in recent decades have become serious problems and require more attention. Environmental problems are closely related to industrial development, and over time, they have a significant impact on environmental damage. Therefore, there is a need for human awareness of the environment at global, national, and regional levels [1]. As technology becomes more sophisticated, it requires industries in Indonesia to keep up. In 2021, the Ministry of Industry explained its support for the creation of an environmentally friendly and competitive industry in the global arena through the implementation of Green Industry.

Green Industry is an industrial production process that prioritizes the effective and efficient use of resources in the production process in a sustainable manner in line with the Making Indonesia 4.0 program. In addition, it aims to reduce and emit waste in converting raw materials into products, and convert waste into more useful products [2]. Currently, Green Industry practices or better known as Green Business, have developed into functional areas, one of which is green human resource management [3]. GHRM is the practice of promoting environmental care behavior and data sources in a sustainable manner [4].

The current Green trend requires organizations to have the ability to compete with excellence in competition. This ability is known as the concept of Green Competitive Advantage. GCA is a company's ability obtained through its resources and characteristics to have higher performance supported compared to companies that have the same market or industry [5]. The achievement of this Green Competitive Advantage has made many companies change policies on both product processes and outputs produced with the aim of ensuring a sustainable environment. So, it is necessary to undergo a cultural transformation process in order to react to environmental problems, namely through Green Organization Culture [6].

Green Organizational Culture can provide assistance in achieving green industry strategies to be implemented successfully and provide a very important role for companies that implement Green Business [7]. The existence of Green Organizational Culture helps companies understand environmental strategies, through activities and policies, in providing environmental conservation results, where the company's goal of Competitive Advantage is achieved. In addition, the existence of GOC provides orientation in building a public image that has its own characteristics, so that green industry innovation is a fundamental value of the organization and its involvement in environmental issues [8].

Apart from GOC, in developing and providing opportunities for an organization or company to increase competitive advantage, namely through Green Intellectual Capital. GIC is environmentally oriented intellectual capital, and effective investment [9]. Another point of view, explaining that Green Intellectual can build awareness of a company on the environment so as to provide product innovations related to the environment [10]

There are several companies that implement Green Business and adopt GHRM in the property sector in Pasuruan Regency, such as PT Ciputra Development Tbk, through its businesses, namely "The Taman Dayu" and Green Eleven Residential. The area caters to its residents with a collaborative concept of modern lifestyle and atmosphere, featuring a ratio of 40% buildings and 60% green land. Ciputra Group has built an excellent reputation for quality property development in Indonesia for decades, including the development of The Taman Dayu. Along with the development, The Taman Dayu has become an independent area that is also equipped with a business and trade center known as Pandaan Central Business District. The Pandaan CBD area contains shopping buildings, culinary centers, and public areas equipped with entertainment facilities for families [11]. Meanwhile, Green Eleven Residential carries the concept of "Living Comfortably in Fresh Nature." Every residence built reflects Green Eleven's great attention to public facilities, security, comfort, sustainable environment, and high building quality [12].

This study aims to determine the effect of Green Organizational Culture and Green Intellectual Capital on Green Competitive Advantage through Green Human Resource Management at The Taman Dayu, Green Eleven Residential. Research on Green Competitive Advantage has not found much investigation. Therefore, this represents a novelty in research, as case studies on Green Industry or Green Business have not been identified.

2. Literature Review

2.1. Green Organizational Culture

Green Organizational Culture is a system of beliefs, values, ideas, principles and attitudes that shape organizational commitment and behavior related to protection [13]. Meanwhile, GOC includes shared values, norms, symbols and social stereotypes about organizational environmental management and shapes the standard behavior expected of individuals [14]. The symbolism of environmental management and protection in an environmentally friendly culture shapes the perceptions and behavior of organizational members. In addition, this culture can be interpreted as a transformation of the organization and its processes to become more environmentally friendly, which increases the efficiency of using the latest resources, reduces pollution and carries out activities in a sustainable manner, which is often referred to as greening [15]. Green organizational culture or GOC can be described as a current climate ideology based on science, politics and aesthetics that promotes sustainable economic and ecological development [16].

2.2. Green Intellectual Capital

Intellectual capital is an intangible asset in a company, including knowledge, employee capabilities, technology, experience, and the ability to implement innovations so that company goals are achieved [17]. In addition, Intellectual Capital is important because it has the influence of fixed assets and financial sets has decreased compared to the influence of intangible assets [18]. Green Intellectual Capital can be defined as the total of all intangible assets owned by the company, knowledge, abilities and relationships associated with legal protection both at the individual level and at the organizational level of a company [19]. GIC is an intangible asset in the form of information resources, innovation and knowledge that

serves to increase the ability to compete while protecting the environment, which can improve sustainable performance [20].

2.3. Green Human Resource Management

Human Resource Management (HRM) or commonly called Human Resources (HR) is some of policies and practices needed by someone who runs the aspects of people or recruitment, screening, training, compensation, and renewal [21]. Green Human Resource Management is a combination of corporate environmental management with human resource management practices. GHRM not only helps in improving environmental performance but also provides more performance to the organization's finances [22]. Green HRM can be seen as a whole and integrated HR activity and is involved in the development, implementation and ongoing maintenance of a system, ensuring that employees of an organization can perform effectively [23]. The goal of GHRM is to make employees of the organization green for the benefit of individuals, society, the environment and business [24].

2.4. Green Competitive Advantage

Green Competitive Advantage is a condition in which companies occupy various positions related to environmental management or green innovation, peers cannot imitate environmental strategies that companies can obtain sustainable benefits from a successful environment [25]. In addition, GCA, as a scenario held by the company in managing the environment and its green innovation, cannot be imitated or copied by competitors, and consequently provides sustainable benefits for the company. If an organization has a green culture that is fully integrated into its system, then the company can achieve superior green performance [26]. A company is called sustainable when it tries to make a minimum negative impact on the environment and social and ensures that future generations can meet their basic needs to live longer with sufficient resources [27]. As a result, the following hypotheses are proposed:

Hypothesis 1: Green Human Resource Management has a positive effect on Green Competitive Advantage.

Hypothesis 2: Green Intellectual Capital has a positive effect on Green Competitive Advantage.

Hypothesis 3: Green Intellectual Capital has a positive effect on Green Human Resources Management.

Hypothesis 4: Green Organizational Culture has a positive effect on Green Human Resource Management.

Hypothesis 5: Green Organizational Culture has a positive effect on Green Human Resource Management.

Hypothesis 6: Green Human Resource Management as a mediator between Green Intellectual Capital and Green Competitive Advantage.

Hypothesis 7: Green Human Resource Management as a mediator between Green Organizational Culture and Green Competitive Advantage.

The study's hypothesized model is depicted in Figure 1:

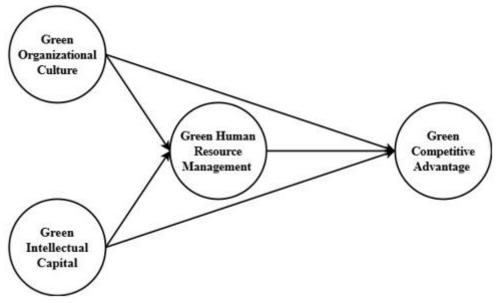


Figure 1. The conceptual framework of the study.

3. Research Method

The type of research used in this study is quantitative to examine the influence between green organizational culture and green intellectual capital on green competitive advantage through green human resource management PT. Ciputra Development Tbk, through its businesses, namely "The Taman Dayu", Green Eleven Residential using a total sampling technique. The total sample in this study amounted to 170 employees. In measuring responses from respondents, the researchers used a 5-point Likert scale. The data analysis technique employed in this study utilizes Structural Equation Modeling - Partial Least Square (SEM-PLS) using SmartPLS4 data processing tools.

4. Research Results and Discussion

4.1. Outer Model

Convergent validity is used to evaluate indicators representing the underlying latent variable. The concept of convergent validity is used to evaluate the relationship between target points (components) and construct points. To establish convergent validity, the correlation between variables and constructs must be appropriate, indicators are considered adequate if the value of outer loading is between 0.5 - 0.6 [28]. The following is a test of the outer model.

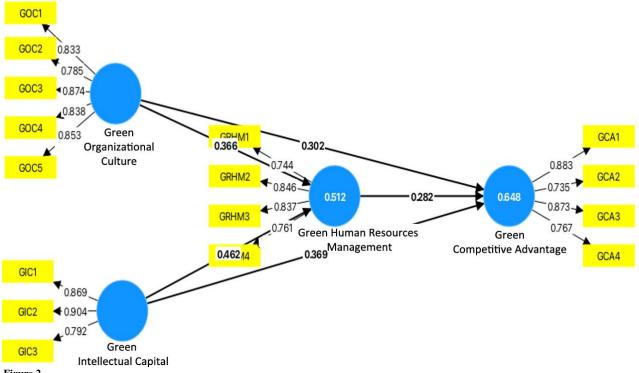


Figure 2.
Initial Measurement Model.

Figure 2 shows that all indicators have a loading factor value above 0.6, which meets the requirements of convergent validity, so it can be concluded that the measurement model above provides good validity and reliability. In addition, the value of outer loading on all variables is exploratory, which is still acceptable.

4.2. Structural Model Test Analysis (Inner Model)

The next step is testing the structural model (inner model). In this test, the coefficient of determination (R^2) is carried out with the aim of measuring the extent to which endogenous variables can be explained by endogenous variables. The higher the coefficient of determination, the better the resulting predictive value.

Table 1.

Coefficient of Determination.

	R Square	R Square Adjusted
GCA	0.648	0.642
GRHM	0.512	0.506

In Table 1, it can be concluded that the R-Square value, that Green Organizational Culture and Green Intellectual Capital are able to explain Green Competitive Advantage 0.648, which means that the research model carried out is moderate. While the Green Human Resources Management variable in the table shows that the R-Square value is 0.512, which means it is moderate.

Table 2. Hypothesized Results of Path Coefficient.

Typodiesized Results o	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	T Statistics (O/STDEV)	P Values
GHRM -> GCA	0.282	0.288	0.063	4.485	0.000
GIC -> GCA	0.369	0.362	0.066	5.625	0.000
GIC -> GHRM	0.462	0.467	0.060	7.731	0.000
GOC -> GCA	0.302	0.305	0.072	4.180	0.000
GOC ->	0.366	0.362	0.064	5.750	0.000

Table 3. Hypothesis Results from Path Coefficient.

	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	T Statistics (O/STDEV)	P Values
GIC -> GHRM -> GCA	0.130	0.135	0.036	3.574	0.000
GOC -> GHRM -> GCA	0.103	0.105	0.033	3.150	0.002

Hypothesis testing is carried out to see the independent variable (X) has an impact on the dependent variable (Y) which is moderated by the moderating variable (Z), from this test it is seen from the $\neg P$ -Value, if the P-Value <0.5 then it can be stated that there is an influence between these variables. Based on the table that has been displayed, it can be explained that:

- 1. The PLS measurement results of the Green Organizational Culture variable on Green Human Resources Management show that it has a positive and significant effect, because the T-Statistic is more than 1.960 and the P-Value is 0.000.
- 2. The results of PLS measurements of the Green Intellectual Capital variable on Green Human Resources Management show that it has a positive and significant effect, because the T-Statistic is more than 1.960 and the P-Value is 0.000.
- 3. The PLS measurement results of the Green Organizational Culture variable on Green Competitive Advantage show that it has a positive and significant effect, because the T-Statistic is more than 1.960 and the P-Value is 0.000.
- 4. The PLS measurement results of the Green Intellectual Capital variable on Green Competitive Advantage show that it has a positive and significant effect, because the T-Statistic is more than 1.960 and the P-Value is 0.000.
- 5. The results of PLS measurements of the Green Human Resources Management variable on Green Competitive Advantage show that it has a positive and significant effect, because the T-Statistic is more than 1.960 and the P-Value is 0.000.
- 6. The PLS measurement results of the Green Intellectual Capital variable on Green Competitive Advantage, with the Green Human Resources Management variable as mediation, found that the T-Statistic value is 3.574, which is more than 1.960, and the P-Value is 0.000, which is less than 0.05. Thus, it can be concluded that the Green Intellectual Capital variable on Green Competitive Advantage, with the Green Human Resources Management variable as mediation, has an effect.
- 7. The PLS measurement results of the Green Organizational Culture variable on Green Competitive Advantage with the Green Huma Resources Management variable as mediation, it was found that the T-Statistic value was 0.595 which was smaller than 1.960 and a P-Value of 0.02 which was less than 0.05. Thus, it can be concluded that the Green Organization Culture variable on Green Competitive Advantage with the Green Human Resources Management variable as the mediating variable has effect.

4.3. Discussion

4.3.1. Green Human Resource Management has a positive and significant effect on Green Competitive Advantage

From the hypothesis testing that has been done, it shows that there is a significant relationship between Green Human Resource Management and Green Competitive Advantage. The research results are in line with research from [29].

GHRM involves recruiting, training, and retaining employees with the necessary competencies and attitudes towards sustainability [30]. GHCM is essential for organizations to implement and maintain environmentally friendly practices [30]. Organizations can enhance their ability to absorb and implement green practices by implementing GHRM strategies. This can lead to the development of skills and capabilities necessary for continuous performance improvement [31]. GHRM practices play an important role in gaining a competitive advantage [32]. It is emphasized that such practices help organizations acquire valuable and unique resources necessary for sustainable competitive advantage [32]. Organizations can cultivate a workforce that is concerned and dedicated to the environment by implementing GHCM practices. This can increase their potential to achieve competitive advantage and sustainability. Investing in GHCM practices has the potential to generate competitive advantage for the Company.

Dynamic Capabilities points out that success in gaining competitive advantage depends on a company's ability to adapt quickly to changes in the market and external environment [33]. In this case, although Green Human Resource Management can develop green capabilities at the individual and team level, companies need to ensure that broader business policies and strategies also support green practices to achieve Green Competitive Advantage.

Green Resource Management practices influence organizational performance by transforming employees into extraordinarily important resources and unique resources. The utilization of such resources in business development means that organizational goals can be better supported, which in turn leads to a sustainable competitive advantage [34]. To this day, these three companies are still able to survive without changing their business strategies that are specific to protecting the environment, one of which is because these companies have green HRM as a control tool to keep their business environmentally friendly without reducing or reducing profits.

4.3.2. Green Intellectual Capital has a positive and significant effect on Green Competitive Advantage

From the hypothesis testing that has been done, it shows that there is a significant relationship between Green Intellectual Capital and Green Competitive Advantage. The results of the study are in line with research [17, 29].

RBV is the creation of a competitive advantage that cannot be separated from the company's ability to manage its resources, namely resources that are valuable, rare, difficult to imitate, and can be managed properly by the company [35]. intellectual Capital based on RBV is the core of creating competitive advantage [36]. The characteristics of company resources referred to in the RBV. First, the resources owned by the company can help the company to be able to provide better needs and services to consumers than competitors. Second, the resources owned are limited in number and difficult to imitate. Third, the resources owned by the company are profitable, and the last is that the resources are durable.

Tangible assets related to the creation of competitive advantage are very easy to know and measure the extent of their influence, but this is not the case with intangible assets, such as company resources. These assets are invisible but their existence can be utilized and provide benefits to the company [35]. The resource approach assumes that if any of the organization's resources and competencies make it possible to use opportunities or neutralize threats, are accessible to a small number of organizations and are difficult to imitate, they can serve as a source of competitive advantage. The management of a company's intangible assets can help the company gain a competitive advantage [37].

These companies are also considered to be able and capable of developing environmentally friendly housing by making innovations, as well as by maintaining good relationships with customers, partners, and suppliers about protecting the environment. It can be said that the company has the knowledge, employee capabilities, experience, and ability to implement innovations to achieve organizational goals and has had a positive impact on the company's ability to survive to this day.

4.3.3. Green Intellectual Capital Has a Positive and Significant Effect on Green Human Resources Management

From the hypothesis testing that has been done, it shows that there is a significant relationship between Green Intellectual Capital and Green Human Resources Management. An organization shows involvement in every environmental issue and consistent application of values, depending on the goals regarding sustainability as a key factor in organizational development and excellence. Researchers conducted research on GIC to study and promote sustainability in an organization. IC was introduced as a discipline of economics [3]. Huang and Kung argue that GIC has made a difference in an organization that has chosen to focus on sustainability, so the GIC concept offers an opportunity to embrace the environment in all organizational management [17].

An organization shows involvement in every environmental issue as well as consistent application of values, depending on the goals regarding sustainability as a key factor in organizational development and excellence. The researcher conducted research on GIC to study and promote sustainability in an organization. IC was introduced as a discipline of economics [3].

The results of this study are in accordance with research conducted [29]. In accordance with the Resource-Based View (RBV) theory, in which GIC is seen as a unique resource that provides a competitive advantage for an organization, this is because GIC can increase the organization's capability to create added value based on sustainability. However, the RBV theory is less specific in explaining how the relationship between Green Intellectual Capital and Green Human Resources Management, so the ICV (Intellectual Capital-Based View) theory is considered more capable of explaining the relationship between Green Intellectual Capital and Green Human Resources Management.

4.3.4. Green Organizational Culture has a positive and significant effect on Green Human Resource Management

The hypothesis testing that has been carried out shows that there is a significant relationship between Green Organizational Culture and Green Competitive Advantage. The results of the study are in line with research [16, 38]. In accordance with the Resource-Based View (RBV) theory, where Green Organizational Culture is seen as a unique resource that provides a competitive advantage for an organization, this is because Green Organizational Culture can increase the organization's capability in creating added value based on sustainability. This RBV theory shows that Green Organizational Culture has an important role in Green Competitive Advantage because it acts as a driver of performance in an organization and future wealth. This RBV theory emphasizes that the use of tangible and intangible resources must be efficient in order to create a competitive advantage in an organization.

Corporate culture plays an important role in organizations towards environmentally friendly innovation practices. If the "corporate culture" continues to encourage green practices and mentoring to remain critical in creating new ideas, it encourages the company to increase value and help achieve goals [38]. Sustainable business is a socially and environmentally conscious strategy and practice that leads to a healthier world and paves the way for increasing company profits [39]. Competitive profits include industry-leading actions that help a company outperform its competitors [40].

GOC can be a source of competitive advantage because GOC must have different characteristics from its competitors' cultures and, as an intangible asset, must be difficult for competitors to imitate. In other words, a strong GOC helps employees understand the company's environmental strategy. Thus, employees can know whether GOC is part of the company's core values. Through various activities and policies, companies can generate environmental sustainability values, which will then

produce competitive advantages [41]. Such GOC strategies can help differentiate a company's competitive advantage from highly environmentally friendly values in the minds of consumers [42]. In addition, enhancing a green organizational culture can help companies build a more distinctive image in the eyes of the public [43]. Companies can add and develop environmental values to minimize negative effects that affect the environment through organizational culture to maintain competitive advantages in environmental aspects. The better the environmentally friendly culture implemented by the Company, the more positive benefits it can have on the company so that it can make the Company superior compared to its competitors.

4.3.5. Green Organizational Culture has a positive and significant effect on Green Human Resource Management

The hypothesis testing that has been carried out, it shows that there is a significant relationship between Green Organizational Culture and Green Human Resource Management. The results of the study are in line with research [44, 45]. Green Human Resource Management is defined as a human resource practice that focuses on environmental sustainability through the creation of "green" employees, who can recognize and appreciate the organization's environmental initiatives. It concentrates on "green" selection and recruitment, "green" training and development, "green" performance management and appraisal, and "green" payment and reward systems that expand the organization's human resources [46].

In accordance with the Resource-Based View (RBV) theory, where Green Organizational Culture is seen as a unique resource that provides a competitive advantage for an organization, this is because Green Organizational Culture as an intangible asset owned by the company, can increase the organization's capabilities in creating added value based on sustainability. In this RBV theory, it shows that Green Organizational Culture has an important role in Green Human Resource Management because it acts as a driver of performance in an organization and the creation of wealth in the future. This RBV theory emphasizes that the utilization of tangible and intangible resources must be efficient in order to create a competitive advantage in an organization.

In addition, organizational conditions are important motivators for practicing pro-environmental activities such as Green Human Resource Management by organizations [47] if an organization values green activities by going beyond the goal of just making a profit, and looking for ways to minimize negative impacts and maximize positive impacts of its activities on the environment, then the organization creates a culture that supports Green Human Resource Management and its related practices. Therefore, the environmental culture of the organization, by building an environment that highly values green activities, encourages green recruitment, training, assessment, and incentives, which are dimensions of Green Human Resource Management [48].

Green Organizational Culture can have a significant positive influence on Green Human Resource Management by creating an environment that supports sustainability, increasing employee engagement and motivation, and strengthening commitment to environmentally friendly practices. By implementing this culture, companies not only create a positive impact on the environment but also increase job satisfaction, productivity, and employee retention. As a result, companies become more competitive in achieving sustainability goals and can optimize the use of human resources who have the knowledge and skills to support green change.

4.3.6. Green Human Resource Management as a mediator between Green Intellectual Capital and Green Competitive Advantage

From the hypothesis testing that has been done, it shows that Green Human Resource Management can mediate the relationship between Green Intellectual Capital and Green Competitive Advantage. The research results are in line with research from A'yuni and Muafi [29].

The role of GHRM as a control tool in an organization is indispensable for implementing strategies to achieve organizational goals. Employees with comprehensive knowledge and insight into the company's goals and objectives can help organizations proceed fairly with the implemented strategies, achieve their goals, and distinguish themselves in the competition. In short, the role of human management in implementing the organization's environmental strategy is very important. The results of the analysis show that GHRM plays a mediating role. In fact, practices such as training and development, reward systems, and written assessments can enhance and maintain employees' understanding and concern for environmental sustainability to achieve an environmentally friendly business. This means that the higher the environmental intellectual capital in the company, the better the management of the HR sector in the company that safeguards the environment, providing a higher competitive advantage.

4.3.7. Green Human Resource Management as a mediator between Green Organizational Culture and Green Competitive Advantage

From the hypothesis testing that has been done, it shows that Green Human Resource Management can mediate the relationship between Green Organizational Culture and Green Competitive Advantage. The results of the study are not in line with research [45].

Green Human Resource Management (GHRM) can effectively mediate the relationship between Green Organizational Culture (GOC) and Green Competitive Advantage (GCA). RBV theory explains that companies that have a green culture as a unique resource will be more difficult for competitors to imitate, thus creating a long-term competitive advantage. To create Green Competitive Advantage, organizations need to integrate GHRM with a broader, long-term green strategy and ensure that sustainability values are reflected in every aspect of organizational culture and operations, without relying entirely on GHRM as a mediator between GOC and GCA.

5. Conclusion

Research using data taken from 170 respondents or employees from The Taman Dayu, Green Eleven Residential, which are property companies that exist in Pasuruan Regency, shows that GHRM can mediate the relationship between GIC and GCA directly. On the other hand, Green Human Resource Management (GHRM) can mediate the relationship between Green Organizational Culture (GOC) and Green Competitive Advantage (GCA) effectively. To create a Green Competitive Advantage, organizations need to integrate GHRM with broader and long-term green strategies. The human resource management of environmentally oriented companies must result in the organization's ability to absorb knowledge from the organization's dynamic external environment to be combined with existing knowledge and form new knowledge, thereby creating new knowledge. In addition to environmentally-based Human Resource Management, Green Intellectual Capital (GIC) can potentially be an important asset for companies in achieving Green Competitive Advantage (GCA). The role of employees in a company is vital, as employees who are more skilled and aware of environmental issues can create greater changes in the organization towards sustainability. Environmentally friendly behavior in a company can be built with an environmentally friendly culture implemented by the company; it can positively benefit Green Human Resource Management by creating an environment that supports sustainability, increases employee engagement and motivation, and strengthens commitment to environmentally friendly practices, which can then cause the company to excel compared to its competitors.

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