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# A STUDY OF GREEN INDEPENDENT VILLAGES IN ECONOMIC ASPECTS IN THE SPECIAL REGION OF YOGYAKARTA

by

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### **ABSTRACT**

Independent green village is a village that can develop and enhance their institutional capacity by persevering their tradition, local wisdom, and knowledge. This village is expected to be able to develop their economical products that are based on natural resources and is managed sustainably so that it can be a way to maximize the village's prosperity.

This study uses qualitative exploratory research with Strength, Weakness, Opportunity, and Threat (SWOT) as its analytical tool. The data are gathered with four techniques, that is observation, interview, documentation study, and Focus Group Discussion (FGD). Informants are determined interactively and continuously so that it produces saturated data.

The result of this exploratory study found that people and the natural environment in the economic sector are united and are interrelated. Hence, the economic access of the independent green village can improve the natural resources quality through community empowerment, skill development, knowledge on entrepreneurship improvement, and expanding business relationship through driving figures like innovator that has concern regarding people to improve and diversify local resources-based products.

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### 1. INTRODUCTION

#### **Background**

A green village is a village that has ecological quality or a sustainable living environment. On the other hand, if there is no green village, village building activities will not be successful, because due to environmental damage, such as erosion, floods, landslides, environmental pollution, and overexploitation of natural resources (SDA) so that various environmental damages will have an impact on economic, health, and social vulnerabilities. In this connection, through green villages, natural resources can be sustainable and used for the welfare of their citizens wisely and evenly, and environmental degradation can be prevented.

In connection with the above, a number of experts assess that a green economy approach can encourage the pace of the Indonesian economy and at the same time be one of the solutions to overcome various economic impacts. In addition, the green economy is a sustainability idea with the aim of improving welfare and overcoming the impacts of climate change.

In addition, through a green economy approach, the government will be able to map out the sectors that deserve stimulus so that the stimulus is not given to vulnerable or even destructive sectors. The mapping is also to see sectors that are resistant to all conditions, including the current pandemic. In this connection, village development so far still often adheres to the concept of "building a village" and not "village building". In the concept

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of building a village, external factors play a more important role in determining the direction of village development and this causes the village to be increasingly dependent on outside assistance. On the contrary, the concept of a village builds the role of the community; it is actually the main factor for building a resilient village.

Green independent villages are villages that are able to develop and strengthen village institutional capacity that are able to develop and strengthen village institutional capacity while maintaining local traditions, wisdom, and knowledge. In addition, villages are expected to be able to develop natural resource-based village economic products and managed sustainably as a way for the welfare of rural communities and rural areas.

In essence, independent villages are developed villages, covering the fields of economy, education, health, security and order, political sovereignty, community participation, and the performance of village government. Furthermore, independent villages are also referred to as villages equipped with various adequate social facilities, such as infrastructure, health, education, economy, worship, sports, entertainment, shopping, and others. Thus, green independent villages will succeed in making natural resources sustainable and used for the welfare of their citizens wisely and evenly.

Green economy is a concept to realize sustainable development. In this connection, the United Nations Environment Programme argues that a green economy is a way to realize inclusive economic development so as to produce better human welfare and social justice, while at the same time significantly reducing the risk of environmental damage and ecological scarcity [1].

Through a green economy approach, the government can map out the sectors that deserve stimulus. This mapping is to see a sector that is resistant to all conditions, because the concept of villages to build the role of the community is precisely the main factor for building a resilient village. A number of experts consider that the green economy approach can encourage the pace of the Indonesian economy and at the same time be one of the solutions to overcome various economic impacts so that the green economy is also an idea of sustainability issues aimed at improving the welfare of villages and rural areas and also overcoming the impacts of climate change.

### **Purpose and Objectives**

The preparation of the Green Independent Village Study in Economic Aspects is intended to compile actions to realize the mapping of the concept of sustainable development into a real plan for sustainable and environmentally friendly villages. While the objectives are:

- 1. Develop the concept of a green independent village in the economic aspect in DIY.
- 2. Develop a roadmap concept for the implementation of green independent villages in the economic aspect of DIY.
- 3. Develop a concept of an action plan for the implementation of green independent villages in the economic aspect of DIY.
- 4. Develop policy formulations and recommendations for the concept of green independent village management in the economic aspects of DIY.

### 2. LITERATURE REVIEW

Villages and also customary villages are legal community units that have territorial boundaries authorized to regulate and manage government affairs, the interests of local communities based on community initiatives, rights of origin, and/or traditional rights that are recognized and respected in the government system of the Republic of Indonesia. Village development is an important factor for regional development with the aim of alleviating poverty and reducing development gaps between regions in accordance with Rostow's theory. Based on the criteria of the Directorate of Urban and Rural Affairs of BAPPENAS, the level of development development and the status of the village can be divided into three, namely:

- 1. Disadvantaged Villages: villages that have not met the Minimum Service Standards (SPM) in terms of social needs, basic infrastructure, basic facilities, public services, and government administration.
- 2. Developing Villages: villages that have met the SPM but have not demonstrated sustainability in management.
- 3. Independent Village: a village that has fulfilled SPM and institutionally has sustainability [6].

There are several definitions of independent villages, including:

- 1. BPS states that independent villages are villages that have availability and access to basic services, adequate infrastructure, accessibility/transportation is not difficult, public services are good, and government administration is very good (Statistical Reference Information System View Indicators, n.d.).
- 2. BKPPK the Ministry of Finance said that independent villages are developed villages that have the ability to carry out village development to improve the quality of life and life as much as possible, the welfare of rural

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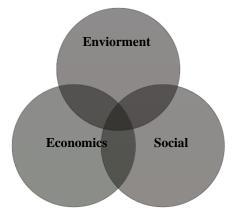


communities with social resilience as well as economic resilience and ecological resilience in a sustainable manner. (BDK, n.d.).

- 3. An independent village is a village that can meet its own needs so that it does not only depend on government assistance. If it is as a stimulant or stimulant only [7].
- 4. Based on the criteria of the Directorate of Urban and Rural Affairs (BAPPENAS, 2015), an independent village is a village that has the ability to carry out village development and provide a decent livelihood for its people.
- 5. Independent Village is a village that has fulfilled SPM and institutionally has sustainability [6].
- 6. According to another conception of independent villages, that independent village is an elaboration of the principle of independence. The village has the ability to meet its own needs. Village independence is also supported by village-scale local authority [8].

From the definition above, the ability of a village to manage and conserve natural resources along with its biodiversity and ecosystem is the key to improving sustainable village development. Elements of health, ecology, and the natural environment are a close unit in efforts to develop independent villages, along with the development of independent villages in economic aspects.

Sustainable development is often explained through a form of division into sectors of the economy, natural environment, and society [9]-[10]. Sustainable development aims to unite the three in a balanced manner and assume the sectors of the economy, society and the natural environment are mutually separate, even autonomous [11]-[12]. The following is presented Figure 1 regarding the 3 interconnected sectors in sustainable development.



Figur 3. A Three-ring Model to Explain Sustainable Development

Source: Giddings, Hopwood

Currently, attention to the economic sector is more dominant than the natural environment and society, because economic growth is one of the indicators to measure the progress of sustainable development. The relationship between man and the natural environment is often described in economic terms, that is, as natural and social capital and service providers. Mellor, Cock and Hopwood, and Shiva, argue that efforts to make the natural environment a commodity and increase areas of human activity will distance society from sustainable development [13]-[14],[15].

Economic activity can be viewed as part of society and the natural environment because humans are very dependent on the natural environment. Although the natural environment will still be able to continue without human life (Lovelock, 1988).

Positioning between economy and society as separate leads to the consequence of ignoring diversity and difference. On the other hand, when these two things are combined, it can provide changes and ideas to develop diversity in sustainable development. According to Giddings, Hopwood and O'Brien, that sustainable development must ensure the sustainability of human life and meet its needs [16].

An economy is said to be sustainable only if it can simultaneously meet the needs of human beings, in particular the needs of the poor, without consuming resources that exceed the carrying capacity of the environment to meet current and future needs. That is, not meeting human needs means that it is not socially sustainable and

consuming resources beyond the carrying capacity of the environment means that it is not ecologically sustainable [17].

The social foundation is a basic human right that must be fulfilled in order to live a decent life. If basic human needs are not met, it can lead to higher rates of unemployment and poverty. On the contrary, man can overmeet the needs of his life showing greed that can damage the natural environment. This damage to the natural environment can threaten human life so that sustainable development cannot take place.

### 3. RESEARCH METHOD

The research entitled The Study of Green Independent Villages in Economic Aspects uses a qualitative exploration approach. Exploratory research is research that aims to explore broadly about things that affect the occurrence of something and is used when knowing the conditions or conditions of the field. Therefore, the exploratory research method aims to map an object that is relatively in-depth. In the aforementioned relationship, qualitative research intends to understand the potential of economic resources contained in the village.

# **Analysis Tools**

This research uses a qualitative approach to exploration with the Strenght, Weakness, Oppurtunity and Threat (SWOT) analysis tool. According to Rangkuti, SWOT analysis can systematically identify several factors to formulate a strategy based on logic so that it can maximize strengths and opportunities, and simultaneously minimize weaknesses and threats [2].

### **Principles of SWOT Analysis**

The determinants of the effectiveness, efficiency and sustainability of an organization's performance can basically be grouped into internal and external factors. Internal factors are related to strengths and weaknesses, and external factors are related to opportunities and threats, all of which can affect organizational performance.

Analysis that pays attention to these factors is known as a SWOT analysis, and through a SWOT analysis, it is hoped that the organization can determine a future strategy so that existing conditions continue to move forward, namely maximizing the strengths possessed through existing opportunities, and simultaneously suppressing as low as possible weaknesses and threats.

# **Stages of SWOT Analysis**

# a. Data Collection Phase

Data and information related to internal factors are about the concept of green independent villages, including: 1) the status ranking of the 2020 building village index (IDM) from the Directorate General of Village Community Development and Empowerment, Ministry of Villages, Development of Disadvantaged Regions and Transmigration of the Republic of Indonesia; 2) Letter of Understanding between the Ministry of Villages, Development of Disadvantaged Regions and Transmigration of the Republic of Indonesia with the World Wild Life Fund For Nature (WWF) Indonesia on Community Development and Empowerment Towards Green Independent Villages in Villages, Disadvantaged Areas and Transmigration Areas Number 24/HK. 07.01/ SJ/X/2019 dan Nomor 237/WWF-ID/LGL-MOU/V/2019; 3) Decree of the Governor of the Special Region of Yogyakarta Number 36 of 2014 concerning Cultural Villages/Kelurahan; 4) Decree of the Governor of the Special Region of Yogyakarta Number 364 / KEP / 2020 concerning the Determination of Villages / Kalurahan Cultural Independent Villages in 2020; 5) Decree of the Governor of the Special Region of Yogyakarta Number gj/KEP/2021; About the Determination of Cultural Independent Village Villages/Kalurahan in 2021; 6) Metadata of Environmental Development Pillar Indicators of the Ministry of National Development Planning (BAPPENAS) 2020; English translation. 7) Metadata of the Social Development Pillar Indicators of the Ministry of National Development Planning (BAPPENAS) 2020; 8) Metadata of the Economic Development Pillar Indicators of the Ministry of National Development Planning (BAPPENAS) 2020; 9) secondary data from the results of research and UN reports on the MDGs and MMC.

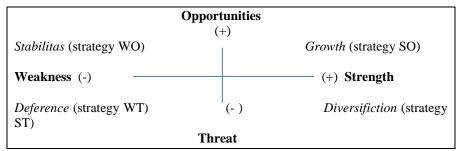
### b. Data Analysis Stage

The value of internal and external factors is described in the form of a SWOT diagram using elements of strength with elements of weakness, elements of opportunity and elements of threat. All information is compiled in matrix form, then analyzed to obtain a suitable strategy in formulating the concept and implementation of Green Independent Village, as follows: SO Strategy (strength-opportunity), WO Strategy (weakness-threats).



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Figure 1. SWOT Analysis Diagram



Source: Rangkuti, 2002.

### **Strategizing Stage**

The four strategies formulated will be reviewed to determine the most profitable strategy in implementing the concept of Green Independent Villages in Economic Aspects in DIY based on the SWOT analysis and finally a strategy plan can be drawn up that will be a reference in carrying out further activities, more details can be studied in Figure 2 below.

Figur 2. SWOT Strategy Matrix Diagram

| Factor External Internal | Opportunities (O)  | Threat (T)  |
|--------------------------|--|---|
| Strength (S)             | Strategy SO Creating strategies that use power to seize opportunities.                       | Strategy ST Creating strategies that use power to address threats.        |
| Weakness (W)             | Strategy WO Create strategies that overcome weaknesses by taking advantage of opportunities. | Strategy WT Creating strategies to minimize weaknesses and avoid threats. |

Source: Rangkuti, 2002.

### **Data Collection Methods**

Data on the Study of Green Independent Villages in Economic Aspects were obtained from village heads, village officials, and village activists in the field of culture, preneur villages, prime villages, tourist villages, and cultural villages. The location is determined by the cultural independent village, the village building index (IDM), and the village ministry (kemendes). Eight villages are selected from culturally independent village variants with various main and intermediate levels, while from IDM based on developing, advanced, and independent variants.

One village was selected from a cultural village with advanced IDM status. In making a green independent village study, two types of data are needed, namely primary data and secondary data. Primary data collection uses observation methods, in-depth interviews, and focus group discussions (FGD). Secondary data was collected from data located in village offices, local government organizations consisting of the Cooperatives and SMEs Office, the Women's Empowerment Office for Child Protection and Population Control (DP3AP2), the Tourism Office, the DIY Cultural Service and several other data from Bappenas as well as data from the Ministry of Villages, Development of Disadvantaged Regions and Transmigration. Data from the UN report on the implementation of the millennium development goals in 2017 and the Millennium Challenge Corporation (MCC) report in 2011.

# **Informant Determination Methods**

Informants in the study were determined purposively and snowball. These parainformants are subjects that can supply information to the researcher in full, and because the qualitative research sample is small enough that it does not need to be representative of the population, so it is selected or determined according to the objectives [3].

Based on this, the researcher determined the informants as follows: village heads, village officials, village activists in the field of culture, preneur villages, prime villages, tourist villages, and cultural villages.

# **Data Analysis Methods**

Data analysis in this study used the Milles and Huberman model. In this connection, Miles and Huberman in Sugiyono say that "qualitative data analysis is carried out interactively and continuously so as to produce saturated data [4]. Qualitative data analysis techniques follow [5].

#### Research Location

The research location in this study consists of:

- 1. Kalurahan Pagerharjo Kapanewon Samigaluh Kulon Progo Regency
- 2. Kalurahan Tuksono Kapanewon Sentolo, Kulon Progo Regency 3
- 3. Kalurahan Sabdodadi Kapanewon Bantul Bantul Regency
- 4. Kalurahan Bangunjiwo Kapanewon Pity Bantul Regency 5. Kalurahan Pendowoharjo Kapanewon Sleman Sleman Regency.
- 5. Kalurahan Wonokerto Kapanewon Turi Sleman Regency
- 6. Kalurahan Bejiharjo Kapanewon Karangmojo Gunungkidul Regency
- 7. Kalurahan Giring Kapanewon Paliyan, Gunungkidul Regency.

#### 4. RESULTS AND ANALYSIS

Primary data collected through observation, interviews, documentation, and FGDs with various stakeholders; it is then integrated with secondary data obtained from various parties (see page 5). The results of the study are presented in the SWOT Analysis Model to explore internal aspects: strengths and weaknesses; and external aspects: opportunities and threats to the study of green independent villages in the economic aspects of DIY. The results of the integration of the two kinds of data are presented in Table 1 below.

Tabel 1. Data Integration of Internal Aspects and External Aspects

| INDICATOR                                | INTERNAL  |  | EXTERNAL  |  |  |
|--|---|--|---|--|--|
| ECONOMICS                                | STRENGTH  | WEAKNESS   | OPPORTUNITIE<br>S   | THREAT   |  |
| Clean and affordable energy              | All regions are already covered by electricity  | The wattage is different     Not all energy for comsumption is not production  | 1. Has the potential to develop renewable energy  | 1. Unstable voltages gave the opportunity to damage electronic equipment |  |
| Decent work and economic growth          | <ol> <li>Can be produce</li> <li>Have a job</li> <li>The population of productive age is more dominant</li> <li>Available employment in the agricultural sector</li> <li>Resource cohesiveness</li> </ol> | Can't sell     Insufficient income     Many young people are not interested in entering the agricultural sector     Natural resources are still not well managed | Developing integrated agriculture     Growth of entrepreneurshi p spirit based on local potential     Intergreted partneships | Foreigner controlled     Impact on oncreased waste production.           |  |
| Inivation industry<br>and infrastructure | Local resource-<br>based<br>industries     Local<br>technology  | 1. Service life  | 1. Local<br>Technology<br>Development   | The influx of outside technology     Competition with foreign            |  |



..... **INDICATOR INTERNAL EXTERNAL ECONOMICS** STRENGTH **OPPORTUNITIE** WEAKNESS THREAT countries at lower prices Reduced inequality Involving The quality of Quality Unfair vulnerable improvement products of business groups with improvement vulnerable groups competition elderly training and the elderly 2. Human disabilities has not been 2. Women and resourcs marketable men have equal Realizing 2. **Business actors** access to the aninclusivesoci economy do not yet have a ety and business actors perspective Partnerships to **Bumdes** Capacity 1. Management is 1. Macroeconomi **KUD** achieve goals 2. still weak building for **KUBE** 3. Limited service managerial Modern Stores Microfinance 4. Commitment

Source: Field data Analysis, 2022.

institutions

After the internal and external factors of the economic aspects are integrated, the data is then analyzed with the SWOT tool and the results are: strategies that use strengths to take advantage of opportunities (SO strategies), strategies that use strengths to overcome threats (ST strategies), strategies that overcome weaknesses by taking advantage of opportunities (WO strategies), and strategies that minimize weaknesses and avoid threats (WT strategies); presented in Table 2. Economic Aspects Strategy Matrix as follows.

**Tabel 2. Economic Aspect Strategy Matrix** 

| 1                 | Tabel 2. Economic Aspect Strategy Matrix  |   |  |  |  |
|-------------------|---|---|--|--|--|
|                   | OPORTUNITY  | THREATS   |  |  |  |
| ECONOMIC STRATEGY | <ul> <li>5. Has the potential to develop renewable energy</li> <li>6. Developing integrated agriculture</li> <li>7. The growth of the entrepreneurial spirit</li> </ul> | <ol> <li>Unstable voltages have<br/>the opportunity</li> <li>to damage electronic<br/>equipment</li> <li>Foreigner-controlled<br/>Impact on increasing</li> </ol> |  |  |  |
|                   | based on local potential.   | waste production  |  |  |  |
|                   | 8. Integrated partnerships  | 4. The influx of outside  |  |  |  |
|                   | 9. Local technology   | technology  |  |  |  |
|                   | development   | 5. Competition with foreign   |  |  |  |
|                   | 10. Training on improving the quality of human resources.   | products English translation. at a lower priceEnglish translation.  |  |  |  |
|                   | 11. Realizing an inclusive society and business   | 6. Unfair business competition  |  |  |  |
|                   | actors  | 7. Macroeconomics   |  |  |  |
|                   | 12. Capacity building for managerial  | 8. Modern stores  |  |  |  |
|                   | 13. Commitment  | G   |  |  |  |
| STRENGTH          | Strategy SO   | Strategy ST   |  |  |  |

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|                         |   | •••••  | •••••  | •••••  |   |
|-------------------------|---|--|--|--|---|
| 1.                      | All regions are already   | 1.   | Utilizing natural resources (rivers, sunlight, climate)  | 1.   | Need to stabilize the   |
|                         | covered by electricity  |  |  | 2  | electrical voltage  |
| 2.                      | Can be produced   |  | as an energy source in the   | 2.   | Providing various   |
| 3.                      | Have a job  |  | village  |  | trainings to improve the  |
| 4.                      | The population of   | 2.   | Each individual element in   |  | potential of human  |
|                         | productive age is more  |  | society can develop an   |  | resources   |
|                         | dominant  |  | entrepreneurial spirit   | 3.   | Strengthening and   |
| 5.                      | Jobs available in the   | 3.   | Opening up job   |  | developing local  |
|                         | agricultural sector   |  | opportunities in the   |  | technologies to counteract  |
| 6.                      | Integrated integration  |  | agricultural sector is   |  | the influx of outside   |
| 0.                      | of natural resources  |  | getting wider  |  | technologies  |
| 7.                      | Local resource-based  | 4.   | Training vulnerable  | 4.   | Provide shops that can  |
| /.                      |   | 4.   | •  |  |   |
|                         | industries  |  | groups (disabled, elderly)   | 5.   | Accommodating and   |
| 8.                      | Local technology  | _  | to be more productive  | _  | selling local products  |
|                         | involves vulnerable   | 5.   | Developing local potential   | 6.   | Setting affordable prices   |
|                         | groups, the disabled,   |  | (SDA, HR, SDS, SDR)  |  | for quality local products  |
|                         | the elderly   | 6.   | The potential of   | 7.   | Recycling waste   |
| 9.                      | Women and men have  |  | institutions in villages is  | 8.   | production  |
|                         | equal access to the   |  | developed towards social   |  |   |
|                         | economy   |  | entrepreneurship (MFIs,  |  |   |
| 10.                     | ·   |  | KUD, and Bumdes)   |  |   |
| 11.                     |   | 7.   | Natural resources,   |  |   |
| 12.                     |   |  | agriculture, and others are  |  |   |
| 13.                     |   |  | prioritized to meet the  |  |   |
| 13.                     | institutions  |  | needs of rural   |  |   |
|                         | Ilistitutions   |  |  |  |   |
|                         | WE A KINEGO   |  | communities first  |  | C   |
|                         | WEAKNESS  |  | Setrategy WO   |  | Strategy WT   |
|                         |   |  |  |  |   |
| 1.                      | The wattage power is  | 1.   | Determining quality  | 1.   | The electronic equipment  |
| 1.                      | The wattage power is different  | 1.   | Determining quality standards for the products   | 1.   | The electronic equipment used must match the  |
| 1.                      |   | 1.   | standards for the products   | 1.   | used must match the   |
| 1.<br>2.                |   | 1.<br>2.   |  | 1.   |   |
|                         | different  Not all energy for   |  | standards for the products<br>produced<br>Build business   |  | used must match the<br>available wattage power<br>Able to utilize water   |
|                         | Not all energy for consumption is not   |  | standards for the products<br>produced<br>Build business<br>partnerships with outside  |  | used must match the<br>available wattage power<br>Able to utilize water<br>energy sources, sunlight   |
| 2.                      | Not all energy for consumption is not production  |  | standards for the products produced Build business partnerships with outside parties to expand   | 2.   | used must match the<br>available wattage power<br>Able to utilize water<br>energy sources, sunlight<br>available in the village   |
| 2.                      | Not all energy for consumption is not production Can't sell   | 2.   | standards for the products produced Build business partnerships with outside parties to expand marketing areas   |  | used must match the<br>available wattage power<br>Able to utilize water<br>energy sources, sunlight<br>available in the village<br>It is necessary to   |
| 2.<br>3.<br>4.          | Not all energy for consumption is not production Can't sell Insufficient income   |  | standards for the products produced Build business partnerships with outside parties to expand marketing areas Encouraging women to  | 2.   | used must match the available wattage power Able to utilize water energy sources, sunlight available in the village It is necessary to standardize the products   |
| 2.                      | Not all energy for consumption is not production Can't sell Insufficient income Many young people are   | 2.   | standards for the products produced Build business partnerships with outside parties to expand marketing areas Encouraging women to commit to  | 2.   | used must match the available wattage power Able to utilize water energy sources, sunlight available in the village It is necessary to standardize the products produced so that the  |
| 2.<br>3.<br>4.          | Not all energy for consumption is not production Can't sell Insufficient income Many young people are not interested in   | 2.   | standards for the products produced Build business partnerships with outside parties to expand marketing areas Encouraging women to commit to entering/working in the  | 2.   | used must match the available wattage power Able to utilize water energy sources, sunlight available in the village It is necessary to standardize the products produced so that the product is marketable  |
| 2.<br>3.<br>4.          | Not all energy for consumption is not production Can't sell Insufficient income Many young people are not interested in entering the agricultural   | 2.   | standards for the products produced Build business partnerships with outside parties to expand marketing areas Encouraging women to commit to entering/working in the agricultural sector  | 2.   | used must match the available wattage power Able to utilize water energy sources, sunlight available in the village It is necessary to standardize the products produced so that the product is marketable Conducting product   |
| 2.<br>3.<br>4.<br>5.    | Not all energy for consumption is not production Can't sell Insufficient income Many young people are not interested in entering the agricultural sector  | 2.   | standards for the products produced Build business partnerships with outside parties to expand marketing areas Encouraging women to commit to entering/working in the agricultural sector Involving and training   | 2.   | used must match the available wattage power Able to utilize water energy sources, sunlight available in the village It is necessary to standardize the products produced so that the product is marketable Conducting product recognition through social  |
| 2.<br>3.<br>4.          | Not all energy for consumption is not production Can't sell Insufficient income Many young people are not interested in entering the agricultural sector Natural resources are  | 2.   | standards for the products produced Build business partnerships with outside parties to expand marketing areas Encouraging women to commit to entering/working in the agricultural sector Involving and training youth in the agricultural   | 2.   | used must match the available wattage power Able to utilize water energy sources, sunlight available in the village It is necessary to standardize the products produced so that the product is marketable Conducting product recognition through social media electronic   |
| 2. 3. 4. 5.             | Not all energy for consumption is not production Can't sell Insufficient income Many young people are not interested in entering the agricultural sector Natural resources are still not well managed   | 2.   | standards for the products produced Build business partnerships with outside parties to expand marketing areas Encouraging women to commit to entering/working in the agricultural sector Involving and training youth in the agricultural sector to develop   | 2.   | used must match the available wattage power Able to utilize water energy sources, sunlight available in the village It is necessary to standardize the products produced so that the product is marketable Conducting product recognition through social media electronic equipment   |
| 2.<br>3.<br>4.<br>5.    | Not all energy for consumption is not production Can't sell Insufficient income Many young people are not interested in entering the agricultural sector Natural resources are still not well managed The quality of  | 2.   | standards for the products produced Build business partnerships with outside parties to expand marketing areas Encouraging women to commit to entering/working in the agricultural sector Involving and training youth in the agricultural sector to develop millennial farmers  | 2.   | used must match the available wattage power Able to utilize water energy sources, sunlight available in the village It is necessary to standardize the products produced so that the product is marketable Conducting product recognition through social media electronic equipment The electronic equipment  |
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| sector                     | partnerships with outside   |
|----------------------------|-----------------------------|
| 13. Natural resources are  | parties to expand           |
| still not well managed     | marketing areas             |
| 14. The quality of         | 9. Encouraging women to     |
| vulnerable and elderly     | commit to                   |
| products has not been      | entering/working in the     |
| marketable                 | agricultural sector         |
| 15. Business actors do not | 10. Involving and training  |
| yet have effectiveness     | youth in the agricultural   |
| towards the disabled and   | sector to develop           |
| the elderly                | millennial farmers          |
| 16. Management is still    | 11. Providing training to   |
| weak                       | vulnerable groups and the   |
| 17. Limited service        | elderly so that the quality |
|                            | of the products set can be  |
|                            | achieved                    |
|                            | 12. Supervision and         |
|                            | standardization on local    |
|                            | products produced by the    |
|                            | community                   |

Source: Field data Analysis, 2022.

Through table 2 of the Economic Aspects Strategy Matrix above, it appears that the economic aspects in this study show the potentials that exist in the village, such as sunlight, rivers, and climate that can be energy sources in the village to develop various economic sectors, such as local industry, agriculture, developing human resources to become entrepreneurs, developing local potential, and local technology. In addition, it also develops rural economic institutions, such as KUD, MFI, BUMDES, and KUBE to develop economic potential in villages. Furthermore, women and youth are willing to commit to working in the agricultural sector, and even form young people into millennial farmers to develop the agricultural sector in the village. In addition, it is also to provide sufficient food supplies in the village so that it can ensure the food security of the people in the village.

#### CONCLUSION

The conclusions that can be drawn from the discussion in the previous chapters on the study of green independent villages are as follows:

- a. Green Independent Village in Economic Aspects to be implemented in Yogyakarta is defined as a village that has a strong ability and commitment in solving problems in the village based on the authority possessed by harmonizing the pillars of culture, economy, social, environment, law, as well as sustainable and equitable growth based on local resources to realize the welfare of the people. From the above understanding, Green Independent Villages in Economic Aspects are based on 5 aspects that will be used as a reference in making analyses, criteria, indicators, and programs in the formation of Green Independent Villages in Economic Aspects.
- b. The roadmap prepared in the Green Independent Village in Economic Aspects is based on 5 aspects, namely cultural, social, economic, environmental, and legal. The roadmap is prepared based on a SWOT analysis that can indicate the strategy to be carried out. The roadmap is prepared to include socialization, drafting regulations, implementing strategies, implementing technology, and developing Green Independent Villages in Economic Aspects in order to become independent villages and overall sustainability.
- c. The action plan is prepared based on the roadmap and OPD that implements each program made on the roadmap to meet the indicators of Green Independent Villages in Economic Aspects. The action plan prepared on these 5 aspects, includes strengthening the data base on culture in each kalurahan, commitment to protecting culture, developing technology-based culture, improving community welfare in economic coverage to education, paying attention to gender equality points, community empowerment in improving the kalurahan economy, and increasing awareness and environmental management in the kalurahan environment. An action plan was also made to make program implementation targets for the development of Green Independent Villages in Economic Aspects.

d. Policy formulation must be made to strengthen the legal basis for the application of Green Independent Villages in Economic Aspects. Policy directions are made from the level of the central government, provincial government, regencies/cities to the sub-district and village levels. The policies prepared include policies on human rights and gender issues, environmental management including policies in handling climate change, cultural protection and maintenance, regional regulations regarding Green Independent Villages in Economic Aspects, and regulations in each kalurahan that regulate Green Independent Villages in Economic Aspects.

#### RECOMMENDATIONS

Recommendations for policy makers in the Study of Green Independent Villages in Economic Aspects, as follows:

- a. For the Central Government:
  - 1) It is necessary to study the application, development, invention, innovation to find sources of raw materials, renewable energy, products in environmentally friendly cultural, social, and economic activities;
  - 2) Make policies so that all activities in the administration of government, culture, social, economic, environmental, and legal; it is necessary to apply the concept of environmentally friendly, low-carbon, and nonpolutants;
  - 3) Village-based economic growth taking into account the harmony between economic growth and environmental sustainability.

### b. For Provincial Governments:

- 1) DIY needs to take villages into account in the achievement and application of a green economy with the concept of a green independent village;
- 2) The concept of green independent villages needs to be followed up with the preparation of regulations, institutional systems and infrastructure that support cultural, social, economic, environmental and legal development up to the village level;
- 3) The application of the concept of green independent villages must be carried out by all development stakeholders in all sectors, integrated and taking into account the MoEF;
- 4) Application of digital ecosystems for cultural, economic, social, environmental, and legal development in development;
- 5) Village-based economic development, such as sustainable agriculture, ethical and sustainable business taking into account responsible production and consumption;

It is necessary to prepare and assist in the development of green independent villages by improving the quality of human resources, inventory of natural resources, SDB, SDS, and SDRs for a more integrated and comprehensive village development.

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