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UTILIZATION OF PALM SHELLS FROM ENVIRONMENTAL LEGAL PERSPECTIVE TO IMPROVE THE ECONOMY

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Abstract:

Environmental law and the Sustainable Development Goals (SDGs) are very important and related to each other, especially in Indonesia. For achieving the SDGs, law environment very importance, and role law national very useful, so that it happens continuity source Power nature, esp environment in Indonesia. Regulation Indonesian national laws, such as the Constitution Environment 2009 and its derivative regulations, offer a framework clear work to protect source power, nature, and the environment. Regulations This naturally supports the initiative of government to reach a sustainable system in the SDG context. So that sustainability life walk period long. Aligned with the draft, it is connected with industry. Palm oil, with lots of it growing and developing in Indonesia, already should be an be an industry. This is tied to the concept of the of the SDGs: to reduce waste as well as get used to thinking innovatively, so you can do it to increase economy, then need to utilize shell palm.

So, identify the problem. How utilization of shell palm oil in Indonesia, views from a glass law environment To increase the economy.

The research method used, namely normative law and study library, used approach concepts and regulations and legislation.

The result found that the utilization shell palm oil in Indonesia is viewed from a glass law environment. To increase the economy, namely something innovative, the Sustainable Development Goals (SDGs) really are tightly tied to the management of shell palm oil, especially in Indonesia. SDGs can be achieved through the utilization or management of shell palm in a sustainable manner. Shell management sustainable palm oil will be able to muffle emissions of carbon with the use energy as a supporting action for climate change, which becomes one of the one of the SDGs goals. Moreover possible can increase field decent work, improvement income, and increase well-being public local.

Keywords: Wast , Industry Palm oil, SDGs

I. Introduction

Coconut plantation palm has help growth economy national in a way significant, and its existence, has been help in support economy, which increases PAD, or frequently known with Regional Original Income in regions dominated by plantations coconut palm oil. Apart from that, plantations coconut palm employ many people, create Lots field work, share surrounding community. Coconut company palm, which does expansion For increase production, because capable raise request consumer its derivatives. However No undeniably, deep industry palm oil, also available waste industry palm oil, which is remains from the cultivation process coconut palm oil, and industry processing palm oil, here can form waste liquid, or gas, and enter in group waste, which has parameter indicators, *urgent* or important for waste water quality. It means impact industry There is also palm oil the negative, if No managed with OK, then matter that's what makes it become No effective and efficient perspective law environment.¹

Environmental law and the Sustainable Development Goals (SDGs) are very important each other related, especially in Indonesia. For achieving the SDGs, law environment very importance, and role law national very useful for continuity source Power nature, esp environment in Indonesia. Regulation Indonesian national, such as Constitution Environment of 2009, and Regulations derivative, offer framework clear work, for protect source Power nature and environmen.

Industry coconut palm own potency big For reach goals sustainable development

(SDGs), especially SDG-8, are aligned with Principle That 's expected capable increase growth economics, as well open field inclusive work. Industry coconut palm oil, can contribute to SDG-8 at the level local, national and international. Therefore that, relationship between shell Palm oil and SDGs are important. Apart from that, industry palm own ability For offset element social, economic and environmental.²

Principle This naturally support initiative government, for reach sustainable system in SDGS context. So that sustainability life walk period long. Aligned with draft it is connected with Industry Palm oil, lots of it growing and developing in Indonesia, already should industry This is tied to the SDGs concept, which is later reviewed from Environmental Law, in order to reduce waste, as well can get used to think innovative. This matter again you can increase economy, so need utilise shell palm the.

Japan, apparently need shell palm with various reasons, esp For energy renewable. Because of the shell coconut palm can used For material burn main in generator electricity, which is often known with Generator electricity power biomass, so shell palm capable awaken three tens generator electricity in Japan. So Japan need supply shell coconut stable palm oil From Indonesia. Request shell coconut estimated palm oil Keep going increase. Additionally, for fulfil need energy renewable in Japan, of course also used For need others, like charcoal substitute for coal. Indonesia and Japan has sign agreement with Indonesia, with total

¹<https://www.saka.co.id/news-detail/baku-mutu-air-limbah-industri-kelapa-sawit>

²<https://www.ekon.go.id/publikasi/detail/2921/industri-kelapa-sawit-indonesia-menjaga->

keseimbangan-cepat-social-economic-dan-lingkunga.

contracts his trade reached US\$ 138.2 million.³ Policy energy Japan, which called for 24% output energy originate from energy new and updated until 2030, meaning Japan Still become a shell market palm biggest.

Malaysia also has Lots shell palm as source biomass. Consequence low utilization shell palm oil in industries that invest in plantations coconut palm oil in various countries, rapidly growth industry coconut palm oil in Malaysia, resulting in the occurrence of shell surplus palm oil. Request shell palm as biomass increased in Malaysia, Indonesia and Thailand. Utilization shell palm, which is used, highly expected become mark add, for example, blessing benefit Clean Development Mechanism (CDM), the cement industry uses shell palm as substitute for coal. When coal prices are moderate high and inventory little, shell Palm oil is also used as source energy alternative.⁴

Referring to Regulations in Indonesia, waste as far as possible Possible can utilized become something useful and valuable things, you can based on the Minister's Decree Environment life, Number 29 of 2003, regarding exists procedure study to waste water utilization, from results industry palm oil produced in plantations palm oil, is base from management waste coconut palm oil. This matter caused by facts that, waste coconut palm own Lots benefit. One of profit waste palm is, can changed become energy renewable. And U.S know, that Energy play role important in achievement objective social, economic and environmental For development

sustainable, and also supportive activity economy national.

Amount shell palm oil in Indonesia, not yet specific data found the production per year. Because He generated based on production fresh palm fruit bunches. However, with see production of 42.5 million tons in 2020, Indonesia remains become producer production oil coconut palm world's largest. Because coconut palm is source main shell palm oil, which can examined, coconut palm oil produced, in comparison straight with shell the palm oil.⁵

Need realized it too, after do management waste shell palm oil, still There is just the obstacles faced after can manage it like:

1. Taxes and levies applicable exports to the perpetrators business too tall. According to one businessman or director at PT. Jatim Propertindo Jaya, which is exporter shell the country's largest, company has experience loss by 20% as consequence from taxes and levies palm oil US\$17 on exports. Export price moment This around US\$75 per ton.⁶
2. Export duties and levies towards investors or businessman plantation palm, against price sale as well as its derivatives often capricious, because set rates government always fickle in accordance with CPO prices around the world. As a result, prices sales and rates charged often go up and down, which has an impact on prices sell

³<https://www.infosawit.com/2022/10/17/6-usaha-cangkang-sawit-ekspor-ke-jepang-bervalu-us-1382-juta/>

⁴<https://cangkangsawit.id/bisnis-cangkang-sawit/cangkang-sawit-dengan-biomassa/>

⁵<https://palmoilina.asia/sawit-hub/kegunaan-cangkang-sawit/>

⁶<https://Ekonomi.bisnis.com/read/20180913/12/837967/pungutan-mahal-ekspor-cangkang-sawit-jadi-tak-maksimal>

commodity coconut palm oil and its derivatives That Alone.⁷

3. Including obstacle before do processing, such as problem conflict land, as well regarding enter the forest area protected, especially Again problema problem legalities, of which there are many plantations that have not own legality certificate right property, then many perpetrators efforts that have not yet been made pocketing cultivation registration certificate from Indonesian Sustainable Palm Oil (ISPO).

Previously, Utilization Shell Palm Environmental Law Perspective, guna Increase Economy, done recitation by Imam Syafa'i et al, who analyzed Policy Government Regency New city To Obligation Plantation Corporation Under Processing Palm Oil Waste. And the result give description that Firstly, you can't denied how importance policy in manage waste, esp waste palm oil, as an energy strategy renewable. Regional Regulations and Regulations Regent must There is set it up, because energy very important For growth sustainability, and activity economy nation. Additionally, impact negative environment from waste palm can reduce. Second, decentralization become more focus, and all parties involved in frame guard continuity nature, which intersect with economics, it is hoped *stakeholders* participate in a way active, useful make policy, overcome results disposal from industry palm moment this, and expected can overcome problem environment life Regency New city.⁸

If connected with study writer this, with title Utilization Shell Palm Environmental Law Perspective to Improve The economy, obviously very different with study previously, which was a study previously focus on something place, and then, object the waste Still in broad scope, and approach the theory different with authors who use it approach law environment To use increase economy.

So, that's it It 's time in 2024, it must be There is new breakthroughs, inside increase economy, because Indonesia is a rich country source Power nature, however weak in the source Power the human, so in acceleration do management waste, no done with maximum. Therefore that 's necessary perhaps approach law, so that it exists good sustainability in the future, so study This very relevant and interesting For reviewed more in. So that title raised in international seminars This is **"USE OF PALM SHELLS FROM AN ENVIRONMENTAL LEGAL PERSPECTIVE TO IMPROVE THE ECONOMY"**.

With Thus, Utilization Shell Palm Environmental Law Perspective to Improve The economy, then aligned with SDG's concept, already must done, use give clear depiction, so that management shell palm This efficient and effective, so creation balance social, economic, especially environment. Therefore, it is necessary For know, understand, even find inner ideal concept do Utilization Shell Palm Environmental Law Perspective to Improve Economy.

⁷ Dhea Novita Agnesia, *Analysis Waste Export Tariff Policy Indonesian Palm Oil Shells To Japa*, JOM FISIP Vol 7: Edition II July-December 2020. Pg.8

⁸ Imam Syafa'i, *Analysis Policy Government Regency New city To Obligation Plantation Corporation*

Under Processing Palm Oil Waste, Thesis, <http://eprints.uniska-bjm.ac.id/id/eprint/8790>, Kalimantan Islamic University, 2022, p.1

II. Legal Materials and Methods

1. Approach Study. Study law naturally use Approaches, uses utilise results findings earlier, later relevant with study moment This is for interest's sake analysis and explanation. In research this, that approach used is method Approach Legislation, and Approach Concept, that is look for regulation Legislation, as base beginning do analysis, and search concepts in knowledge law, in the form of principles, doctrines as well as source law, in the philosophical sense juridical, as corner view, and basis footing Philosophical, Exploratory Shell Palm Environmental Law Perspective to Improve Economy.⁹
2. Specification Study. Nature of research that is refers to type study That alone, inside matter This is study type normative. In kind study normative, then characteristic his research is Lots using secondary data, so researcher will *Library Research*, which means characteristic in study This is nature juridical normative, which is law is what is written in the regulation legislation invitation, as rule For benchmark behave human, so find Philosophical Utilization Shell Palm Environmental Law Perspective to Improve Economy.¹⁰
3. Data Types and Sources. Study This is a Type of Research law normative or study law doctrinal, that is study law that uses secondary data sources, or data obtained through ingredients bibliography, for find Utilization Shell Palm Environmental Law Perspective to Improve Economy, in the future come. Data used namely secondary data, from *Library Research* ie consists from:
 - a. Primary legal materials, namely material existing laws strength tie in the form of :
 - 1) Law no. 11 of 2020 concerning Job Creation
 - 2) Law no. 32 of 2009 Concerning Protection and management of the environment
 - 3) Law NO . 18 of 2013 Concerning Prevention and Eradication Vandalism Forestlist Title
 - 4) Law no. 37 of 2014 Concerning Soil and Water Conservation
 - 5) PP No. 22 of 2021 Concerning Maintenance Protection and management of the environment
 - 6) Regulation of the Minister of Environment and Forestry Republic of Indonesia Number 5 of 2021 concerning Publishing Procedures Technical Approval and Feasibility Letter Operational Field Control Pollution Environment
 - 7) District Regional Regulations West Kutai Number 17 of 2019 concerning Palm Oil Waste Management
 - 8) Minister of Finance Regulation Republic of Indonesia Number 81/Pmk.05/2018 Concerning Service Tariffs for Public Service Agencies for Palm Oil Plantation Fund Management Agencies
 - 9) PP Number 101 of 2014 concerning Management of Hazardous and Toxic Waste
 - b. Legal materials secondary, i.e study theoretical form opinion laws, teachings and theories law as material support primary law in the form of:
 - 1) Books and related literature with study
 - 2) Related papers with study
 - 3) Related articles with study
 - c. Legal materials tertiary or non-legal material that is material research that can

⁹Johnny Ibrahim, *Theory & Methodology Normative Legal Research* , Bayumedia Publishing, Malamg , 2010, p . 23

¹⁰Ronny Hanitijo , *Legal Research Methods*, Ghalia Indo, Jakarta, 1993, p.12

explain material primary law and materials secondary in the form of:

- 1) Dictionary
- 2) Encyclopedia
- 3) and materials reference others that are related and supportive study
4. Method of collecting data. The data collection method is something method How collect data in matter This is secondary data, so can made reference analysis, so systematic logical and critical, that is with studies bibliography, then grouping which parts are correlated with research, then categorized as so that separated become material primary law, law secondary, as well material law tertiary.¹¹
5. Analysis method. Data from existing ingredients collected. Expected from management material the can obtained accurate and concrete picture from object study. Technique used is method analysis prescriptive, analytical intended For give argumentation on results research that has been done. Argumentation done For give evaluation about Correct or wrong or should according to law to fact or incident law from results study. In writing this, writer use approach Laws, and Concepts, where approach Constitution This done with examine all Relevant laws and regulations disconnected as well as look for principles, doctrines as well as source law in a philosophical sense juridical, with issue moderate law handled, where in matter This Related laws and concepts with Utilization Shell Palm Environmental Law Perspective to Improve Economy. The analytical method used, of course leave from reasoning deductive, so reasoning from general specialty, use find Utilization Shell

Palm Environmental Law Perspective to Improve Economy. With so, expected get ideal concept, so efficiency and effectiveness can fulfilled.

III. Results and Discussion

Utilization Shell Palm Environmental Law Perspective to Improve Economy, namely something breakthrough new, trying correlate various concept, so get something value, which is useful for the future come. Development goals national period long is realizing a developed, independent and just country, as base for stage development next, for going to public justice and prosperity, in a unitary state Republic of Indonesia, which is based on Pancasila and the 1945 Constitution.

desired goal achieved is increase management and utilization source Power nature, as well guard function environment life, which is reflected from function, power support, and tamping power, sources Power nature, deep support quality life social, and economic, respectively balanced. Environmental law try For Act in a way fair and sustainable. other than that's also for increase creation value, power competitiveness, and state development capital, so important For conserve diversity life and uniqueness source Power nature.¹²

Increase awareness, attitude, mental and behavior society, will about management source Power nature, and maintenance function environment live for comfort and quality life. Stability will ensure sustainability development. For reason this is very important For prioritize principles development sustainable and

¹¹Ali, Zainuddin, 2016, *Legal Research Methods*, Jakarta: Sinar Graphics, p.65

¹² Affila, Afnila, Rafiqoh, *Environmental Law Enforcement and Challenges Revolution Industry 4.0*, <https://mkn.usu.ac.id/images/37.pdf>, p.9

sustainable throughout sector, both in the center nor in the area.¹³

Law with Sustainable development also has important relevance. In relation with development sustainable, legal works as base main For ensure situation and conditions economy an inner country matter This finance can walk with sustainable and good. Good law can guard market stability, encouraging innovation, and encouragement climate profitable investment. For ensure growth sustainable economy, certainty law, then expediency law very required For arrange activity economy. Policy must integrated, progressive, precise targeted, comprehensive, and sustainable. As part from something planning, then very needed law, good law will deliver its society live more well, even innovation, however if the law No OK, then will impact to direction development the law does not effective, then development must Work The same with policy others, like system social and environmental life.¹⁴

Philosophy law environment life based on ideas law For ensure balance between humans and nature environment life. Environmental law life covers governing principles and regulations environment life includes habitat, environment ocean and sea, environment land, and environment air.¹⁵ So, environmental law is the law does supervision in order Source Power natural still sustainable. Nothing and no permitted The same very waste damage nature. Waste

become attention special from view law environment, which is trying guard nature.

Perspective law environment to waste, that is law environment help organize and ensure, that waste from activity man or manufacturing process, no endanger environment. Penalty environment life This can dropped on three level like administrative, civil and criminal¹⁶ There are some method For straighten up law environment alive , that is through :

1. Licensing. Enforcing law environment life through permission government. It means in the use the object nature, then must There is permits fulfilled in use nature, cause If permission No fulfilled, then standards guard nature, will become No OK, and p that's what it will be make natural become damaged.¹⁷
2. Supervision. Enforcement law environment life through supervision by the government, citizens, or authority civil. With exists supervision, then expected capable For prevent it from happening happen damages nature, then supervision, become something that is also urgent in the protect nature, in the current era of everything move Because technology.
3. Administrative action. That Enforcement law environment life through action administrative, like action administrative government, which can used by citizens or legal entities civil. With exists retraction permission, freeze business, and so on.¹⁸
4. wast. Regarding fourth this is what is also becoming Participation public in the management program rubbish, that can be

¹³ Ibid, p.10

¹⁴ National Legal Development Document Based on the Results of Legal Analysis and Evaluation for 2016-2017, p. 49

¹⁵ Ibid

¹⁶Putri, Dewi Sartika (2023) " Law Enforcement Against Dumping of Hazardous Solid Waste Toxic (B3) by Business Actors Based on Article 104 of the

Law Number 32 of 2009," " Dharmasisya " FHUI Law Masters Program Journal : Vol. 2, Article 11, p.1185

¹⁷ Ibid,

¹⁸<https://dspace.uui.ac.id/bitstream/handle/123456789/16063/05.2%20bab%202.pdf?isAllowed=y&sequence=7>,p.24

very increase enforcement law in the field management rubbish, so increase awareness public will importance support environment good and healthy life.¹⁹

In the middle obstacle necessary trade faced industry coconut palm national, sector This still give very role important especially in reception foreign exchange. In 2022, industry coconut palm donate foreign exchange amounting to US\$ 39.07 billion or around IDR 600 trillion. This is achievement export highest coconut palm throughout history.²⁰

Therefore, it is clear environmental law compare straight with the SDG's, fine Constitution environment life as well as the Sustainable Development Goals (SDGs), focus on sustainability and protection environment. Environmental law life aim For protect and preserve environment nature, while the SDGs are series objective development sustainability set by the United Nations for reach continuity social, economic and environmental.²¹

The main purpose law environment is For prevent damage environmental and encouraging utilization source Power natural in a way sustainable. Environmental law give framework governing laws and regulations fields like management source Power nature, control pollution, and recovery damaged ecosystem.²²

Environmental law naturally notice regarding about waste. So obey expert environment Kusnadi Hardja Soemantri,

directed For Can realize principles sustainable development, then expected That can increase coordination management from level national nor area, then try For increase effort harmonization between development law environment with consistent enforcement, Then legal relations try For increase capacity institutions to be deep handle problem can nature accumulation phenomenon natural nature seasonal and plan, meaning institution can role active For straighten up enforcement law nor effort prevention disaster natural nor generated waste, those is aim For wake awareness society to care to environment plays a role active as control social in monitor quality environment life. So it's wide very According to Kusnadi law environment That own goals or principles or goals achieved so that his presence of course can walk effective and efficient, moreover become Foundation basic order source Power natural can sustainable.²³

Whereas according to Daud Silalahi basically resistance The Living Environment is related with obligation nor rights where obligations in each person allow For submit lawsuit Because want healthy life, and a clean environment so that become part from interest general, be order general.²⁴

Constitution environment life, law Number 32 of 2009, in essence own a number of draft in management environment life, As for the concepts of

¹⁹ Ibid, p. 25

²⁰ <https://sawitindonesia.com/tantangan-yang-berpotensi-hambat-sektor-industri-sawit-indonesia/>

²¹ Humans and the Environment : *Three Challenge For Philosophy IPEHIJAU Environment ' - : ' Opinion : Environment in the Logic of SDGs Sustainability ' - : 'Sustainable Development Goals | International Conference on Public Health*

²² M. Yasir Said, *Paradigm Philosophy of Environmental Ethics in Determining the Political*

Direction of Environmental Law , Al'Adl , Volume XII Number 1, January 2020, p.40

²³ Koesnadi Hardjasoemantri , *Protection Law Environment Conservation Biological Natural Resources and Their Ecosystems* , Gadjah Mada University Press, Yogyakarta , 1993, p. 67

²⁴ M. Daud Silalahi , *Environmental Law in the System Environmental Law Enforcement* , Alumni, Bandung, 2001, p.33

being benchmark basic, that is regarding about study environment lively and strategic, then draft How Don't happen damage environment life, incl regarding about respond anything just dangerous and toxic materials, OK to material standard nor waste generated, as well related with instrument economy threat Serious to environment, is part study from laws in place my life Alone. So in a way economical writer the principles outlined within Constitution environment life Already very good and futuristic so that seen again is level of implementation.

According to Destiny Rahmadi, meanwhile factors Myang annoying happen problem environment, that is consists from factors:²⁵

1. Factors that are motivated by factors technology.
2. Then background factors back Because growth resident.
3. Then underlying factors Because factor economy.
4. Lastly, because factor related with values.

Effective way in manage waste, incl coconut palm oil, is with apply 3R principles viz reduction, use come back, and cycle repeat. Principle This help reduce production waste and improve utilization source Power. The 3R principle involve subtraction waste, use return waste, and recycling repeat waste For reduce impact negative to environment. Additionally, concept management waste shell Palm oil also includes processing waste become

products that have mark economics, like material burn biomass, carbon active, biochar, and aggregate light For construction. With utilise waste shell palm in a way effective and efficient, you can help in guard environment, improve utilization source power, and support sustainable development.²⁶

In situation like This is the law environment life can works as tool For reach objective environment life in the SDGs. Environmental law life can give framework necessary laws For protect environment and guarantee use source Power natural in a way sustainable, all at once support application necessary policies and actions For reach objective the . Environmental law, with various the theory very relevant with draft sustainable development.

So, very clear very law environment is SDG's tools, so that they are fulfilled Principles or SDG's Goals, so on Then connected with Utilization waste, which is then become something of value, is something effective and efficient way, in manage or utilise waste. Utilization waste in study This related matters with Industry palm, which of waste produced that is shell palm oil, which is not including classification hazardous waste.

Utilization Shell Palm Environmental Law Perspective to Improve Economy, namely something effort, or step, which is very harmonious in the find innovation, which waste is generated from processing oil palm oil (POP) includes shells palm oil, which when This have mark economics,

²⁵ Rahmadi , Destiny , *Environmental Law in Indonesia* . Jakarta: Rajawali Press, 2011, p.21

²⁶ Syarifudin Ahmad, *Training Implementation of 5R (Reuse, Reduce, Recycle, Replace, Replant) and Development of a Waste Bank in Kembang Hamlet,*

Kembang Belor Village, Pacet District , Mojokerto Regency , East Java , Journal Abdimas Madani dan Lestari (JAMALI) Vol. 05, Issue. 01, March , Pages 70 -79 e-ISSN:2686-097X | p-ISSN:2798-0227 <https://journal.uii.ac.id/JAMALI> , p.70

which is very high, because Lots usability, friendly environment, and capable increase economy. Following is a number of method utilization shell palm For increase economy from perspective environment namely:²⁷

1. Can as material burn biomass, which is a lot companies that use it shell palm as material burn the boiler so create field Work for public local. Shell palm is one of source energy new renewable that can be used For generator electricity power biomass (PLTBm).
2. Can as material standard producing shell charcoal coconut palm oil. Skin from palm, or the seeds, the nest, can also be found utilized as material fuel, and materials standard making charcoal. Local communities produce charcoal from shell coconut palm have potency For increase economy area.
3. Can create potential, which as energy alternative.

With so Resource management Power good nature, deep matter management waste shell palm oil, no only can increase production and state income, but also can help guard continuity economy with guard environment and reduce use energy that doesn't efficient.²⁸ Refers to growth theory classic, that is Creator probability This including Adam Smith and David Ricardo, stated that they highlighting importance source Power nature, complexity work and its importance expand enhancement savings, in increase economy.

Economy and resources Power natural very related. Source Power nature, like riches nature that is owned and occupied , in a country, then matter That

will can become as base growth economy. Utilization source Power natural in a way effective and sustainable can push growth country's economy, but bad management or exploitation excessive source Power nature, yes impact bad for society, the economy and the environment. In context development economics, source Power natural can collaborate, However, to prevent no damage can fixed, then need efforts in the guard nature to be sustainable with Good.²⁹

Energy renewable is source originating energy from natural and not limited, as well renewable. For example energy sun and energy wind can used Keep going continuous, and present everywhere around We. Apart from that, the energy is managed and renewable usually own footsteps more carbon low. Therefore that's energy renewable can become base development sustainable . Profit main use energy renewable is, no produce emissions. For example use of solar panels or turbine wind, no give rise to pollution. Temporary that is, the use of solar panels at the level House stairs, too push cost electricity. Energy Renewable also has Lots kind, like energy wind, energy hot earth, and energy biomass.³⁰

In research conducted in 2019, Wen-Tien Tsai explained why Taiwan, an island nation, is so energy dependent import. Tsai's research shows that use of PKS as source energy in Taiwan brings benefit great economy and environment. Use of PKS or shell palm capable lower house gas emissions glass in a way significant compared to material burn fossil. Tsai's research shows the use of PKS is

²⁷<https://primasinerji.co.id/cangkang-sawit/>

²⁸<https://www.akseleran.co.id/blog/pereconomic-indonesia/>

²⁹Abu Bakr, *Relations Natural Resources And Growth Economics and Islamic Views on It*

Utilization Natural Resources , Airlangga University , Surabaya, Islamic Law, Vol. 20, no. 1 June 2020, p . 41

³⁰<https://infopmb.itpln.ac.id/jual-paham-apa-yang-dimaksud-energi-terbarukan/>

capable lower emission up to 78,647 tons per year. For increase mark added PKS, several technology strategies recommended. This matter including converting PKS into biochar, converting PKS into syngas via gasification, and use ash For repair condition land.³¹

In 2020, business small and medium enterprises (PKS) Malaysia exports almost One million tonnes globally. The largest PKS export market is Japan with 99.6% market share equivalent to 981,624 tons. PKS 's export value in 2020 was RM365.36 million or about 0.25% of the total value export product coconut palm oil. Malaysian PKS exports grow with a CAGR of 17.74% for five years lastly, especially driven by imports from Japan.³²

Government Keep going trying to make it happen develop expertise, in the territorial-territorial area indurtsi palm oil in Indonesia manage waste palm, with notice principles sustainable, for fulfil global market demand and competition business coconut palm on the global market. Regulations prepared by the Ministry of Agriculture, Regulations of the Minister of Culture Number 19 Minister of Agriculture / OT. 140/3 of 2011, related guidelines plantation oil coconut Sustainable palm oil in Indonesia, established on March 29 2011, makes it mandatory company coconut palm oil in Indonesia for implement ISPO.³³

ISPO (*Indonesian Sustainable Palm Oil*) is system business agriculture plantation coconut profitable palm oil in a way financially, profitable in a way social,

and friendly built climate follow regulations that apply in Indonesia. ISPO consists of the 7 principles, 40 criteria and 128 indicators required For application plantation coconut palm friendly climate ³⁴The existence of the ISPO principle, is parts in protect natural in a way preventive.

Shell palm, also called shell coconut palm oil, is part outside or skin outside from fruit coconut palm oil. This is located outside meat fruit, and contains elements compound chemistry, so rate its evaporation high, as for compounds found in the shell palm, like, activated carbon, then ash, compound water content, which is the shell palm this is very many in Indonesia, because Indonesia producer oil coconut The palm oil industry is also large. So it's necessary perhaps For done innovation, cause waste which is attention specifically Law environment, if it can be *recycled*, then can become effective and efficient management, can become fertilizer organic, ingredients burn, as well material standard charcoal, and That Of course own mark economical, profitable.³⁵

From the corner look environment life, shell palm is part important in control industry coconut palm oil. The law must different useful and responsible answer For safeguard, protect and promote balance ecology, and support growth sustainable When building industry coconut palm oil in

³¹Tsai, Wen-Tien. "Benefit Analysis and Regulatory Actions for Shell's Imported Palm Kernel as an Environment-Friendly Energy Source in Taiwan." Resources, vol. 8, no. 1, MDPI AG, Jan. 2019, p. 8. Crossref, <https://doi.org/10.3390/resources8010008>.

³²<https://www.mpoc.org.my/growth-of-malaysian-palm-kernel-shell-in-japan/>

³³Hendra Septiawana, *Environmental Management Analysis Batu Ampar Palm Oil Factory - Pt. Smart Tbk*. In *the Implementation of Indonesian Sustainable Palm Oil, Journal of Resource Management Nature and Environment* Vol. 4 No. 2 (December 2014), p.136

³⁴ Ibid

³⁵<https://primasinerji.co.id/cangkang-sawit/>

Indonesia, emphasis given to balance social, economic and environmental.³⁶

Manage waste produced palm, in matter This is the shell, it must be consider impacts caused by activities industrial and commercial environment. This is done For guard environment still healthy and reducing damage caused by activities industry. According to environmental law, it must connected with management waste palm in a way sustainable and friendly environment. This can achieved through development practice sustainable, management waste, and friendly technology environment.³⁷

With that's it, law environment which is part from tool of the SDG's Goals, really relevant and different straight with OK, try presenting management waste in matter This shell palm oil, apparently capable increase economy, because can did it export to waste the, in matter This shell palm oil.

Reviewed more in, then Utilization Shell Palm Environmental Law Perspective to Improve The economy, it must be done with a number of way, which according to analysis writers, performers business, society, as well researcher even so, you have to do management in a way effective and efficient, with method as following:

1. All stakeholders involved diharkan obey every rules of the game, which are related with the palm oil industry this, so in operate the activity is running with good, and sustainable, so from upstream and downstream organized with neat, so raise economy, good material basically, neither The waste it produces can be processed become something of value economical.

2. For the perpetrator effort, that's it should own expert chemistry, or expert environment, so can do research, or lab tests on the waste produced, don't until damage environment, and more Good again, if capable processed become useful value.
3. Company, also in do Utilization Shell Palm Environmental Law Perspective to Improve Economy, optimize exists subtraction waste dangerous, with good disposal, or even give training towards the perpetrators business plantation palm others, so waste this, be effective efficient, deep utilise shell palm oil.

So efforts were made above, which is efforts made company, in follow the rules of the game, of course will creation balance activity industry with activity environment nature. If shell palm No managed with good and right, of course thrown away so only, especially favorite, then will capable damage nature, which is Article 87 paragraph 1 of the Law Number 32 of 2009 concerning Environmental Protection and Management regulates that underwriter answer the company and the activities it carries out deed oppose law in circumstances broken, and damaged environment so that give rise to loss for others, then company must do change make a loss. And if loss That No there are, even waste processed become something something of value, then company get profit.³⁸

According to Law no. 32 of 2009 concerning Environmental Protection and Management, provisions regarding Management is monitoring action all

³⁶ Ansyah Putri Novanda UliBr, *Environmental Law : Building a Sustainable Future paper*, Law Study Program, Medan Area University, Indonesia, 2023, p.1

³⁷ Ibid, p.4

³⁸ Constitution Republic of Indonesia Number 32 of 2009 concerning *Environmental Protection and Management*, Article 69 paragraph (1) letter a and Article 87 paragraph (1)

something involved in implementation policy and implementation objective. Change something become good, tense, and effective that's what it's called management. So Management is action use and control all over treasure necessary wealth For reach objective certain. Management can also be done interpreted do something more profitable and fair so that more beneficial.³⁹

Waste dangerous for nature and humans. Apart from that, the impact it has can threaten health environment local, like pollution land, air, and rivers. This is in line with opinion Nineek Supami, confirmed with firm, that basically waste must be processed with find ways For guarantee and make earth and nature around as decent place inhabited For a calm, peaceful and prosperous life. Therefore, it pollutes environment life The same with turn off life.⁴⁰

With Thus, Utilization Shell Palm Environmental Law Perspective to Improve Economy according to economical author, is something innovation, which is a must predicted, managed with OK, so activity Utilization Shell Palm Environmental Law Perspective to Improve The economy is running with maximum, so maximality that, of course give benefit the big one Good for both countries and countries the people, of course use law as tool For reach SDG's goals.

Government, industry and society must Work The same For maximizing potency processing shell palm oil. For promote technology processing shell palm oil, govt must give supportive and giving policies Spirit. Temporary that, industry coconut

palm must Work together and develop technology new For utilise waste shell palm in a way maximum. Apart from that, society also needs it more aware, will benefit waste shell palm and way take advantage of it as source valuable power. Shell palm own potency big as solution problem energy and impact environment in the future If utilized with Good. With Keep going develop potency Indonesia can become leader in development industry coconut sustainable and friendly palm oil environment.

IV. Conclusion and Suggestions

Utilization shell palm oil in Indonesia, views from glasses law environment To use increase economy, namely something innovation, which the Sustainable Development Goals (SDGs) really are tightly with management shell palm oil, especially in Indonesia. SDGs can achieved through utilization or management shell palm, with sustainable. Shell management sustainable palm oil will capable muffle emission carbon, then can become energy renewable, even as supporting action for change climate, which becomes SDGs goals. Moreover potentially, can increase field decent work, improvement income, and increase well-being public local. So that perpetrator business, government, society, must synergize in the manage industry palm this, for the purpose as a prosperous country can slowly materialized. As for Utilization shell palm oil in Indonesia, views from glasses law environment To use increase economy, it must be Pay attention to management techniques, then rule capable

³⁹ Atmosudirjo, Prajudi, *General Administration and Management*, Jakarta, Ghalia Indonesia, 1982

⁴⁰ Nineek Supami, *Conservation Management and Environmental Law Enforcement*, Jakarta: Sinar Graphics, 2003, p.11

policy support The production, then prepare Dhea Novita Agnesia, *Analysis Waste Export Tariff* place sales, as well arrange policy the *Policy Indonesian Palm Oil Shells To* export with pattern calculations that don't *Japan*, JOM FISIP Vol 7: Edition II July- big, so moving society in the field this, no December 2020 feel heavy, and always sustainable, National Legal Development Document Based on especially for the perpetrators effort, effort the Results of 2016-2017 Legal Analysis and Evaluation must own expert in the manage it, so all line indicator management plantation palm Hendra Septiawana, *Environmental Management Analysis Batu Ampar Palm Oil Factory - Pt. Smart Tbk* . In the Implementation of Indonesian Sustainable Palm Oil, Journal of Resource Management Nature and Environment Vol. 4 No. 2 (December 2014) noticed from upstream downstream, and can held with effective and efficient.

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