

EXPORT News INDONESIA

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WHAT'S INSIDE

In terms of utilizing fisheries resources through aquaculture, seaweed can contribute more. Especially, in increasing employment and improving the economy of coastal communities so as to reduce poverty.

editor's desk



Dear valuable readers,

Seaweed is one of the most diverse marine species in Indonesia. The species richness of seaweed does not only play a role in maintaining the balance of the ecosystem but its benefits can be taken.

The benefits of seaweed are very diverse, including, as a raw material for the cooking industry, the cosmetics industry, the construction industry, pharmacy, health and medicine. For this reason, many communities, especially coastal communities, have cultivated various types of seaweed.

Thank You

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Indonesia is the largest producer of seaweed in the world, specifically the type of *Eucheuma cottonii*. From the FAO statistical data released in March 2015, the 2013 production of Indonesian seaweed *Eucheuma cottonii* ranked first in the world at 8.3 million tons. For *Gracilaria sp.*, Indonesia placed at the second after China, with production of 975 thousand tons.

Seaweed is one of the main commodities of aquaculture, which is a mainstay in increasing production, regional economy and the welfare of coastal communities. Seaweed cultivation also does not cause pollution, does not need food and medicine, as well as uses simple technology.

The development of seaweed cultivation is in line with the Indonesia's Work Cabinet's vision and mission, which is to encourage the sea as the nation's economic strength in the future and to make the Republic of Indonesia as a maritime axis.

In terms of utilizing fisheries resources through aquaculture, seaweed can contribute more. Especially, in increasing employment and improving the economy of coastal communities so as to reduce poverty.

The development of seaweed cultivation in Indonesia has great potential considering that the commodity is of high economic value. This condition also stimulates a number of regions in Indonesia to become centers of seaweed cultivation which in fact is a supplier of export needs abroad.

To support the increase of national seaweed production, the Ministry of Maritime Affairs and Fisheries, made a breakthrough by using tissue culture technology and the development of seaweed's spores.

DJPB Technical Implementation Units are encouraged to develop innovative and applicable technologies to support increased aquaculture production. The development of *Eucheuma cottonii* seaweed seedlings through tissue culture and *Gracilaria* seedlings aims to provide sufficient quantities of quality seaweed seeds.

Production of *Eucheuma cottonii* seedlings from tissue culture (Kuljar), produced by the Lampung Center for Marine Aquaculture (BBPBL) in collaboration with Bogor Biotrop SEAMEO. Seedlings of E. cottonii have been distributed to several centers of seaweed cultivation since 2013, to be distributed to the community and cultivated. Among other things to West Nusa Tenggara, East Nusa Tenggara, South Sulawesi, North Sulawesi, Maluku, Aceh, Bengkalis, Belitung, Central Java, East Java and Banten.

The Indonesian Food and Beverage Association's Chairperson, Adhi Lukman, said that "Indonesia has the largest seaweed cultivation in Sulawesi, Nusa Tenggara, as well as Madura and the South Coast of Java".

He confirmed, seaweed production in Indonesia is quite high. Unfortunately, most of which is exported (raw material) or raw seaweed. According to him, there are also countries that produce seaweed, such as China and the Philippines. In order for Indonesia not to take seaweed from other countries, he continued, there are stages that must be done. First, there must be an effort starting from upstream.

That is how to provide understanding to farmers to maintain the quality of seaweed. The method is to ensure that any harvested seaweed is indeed suitable for harvest, or has reached the age. He said, from this harvest period the bias was determined where seaweed could be chosen or not.

Second, there must be a shelter system so that seaweed farmers can collect their seaweed results first. The goal is that seaweed is not hastily sold in a raw state.





From the UN Comtrade and ITC Statistics (2018), the World trade trend for Seaweeds, other Algae, suitable for Human consumption (HS121221) recorded during 2013 to 2017 experienced a significant growth with a growth value of 5.83% / year. Where in 2013, total World trade reached US \$ 997.7 Million and in 2017 reached US \$ 1.37 Billion.

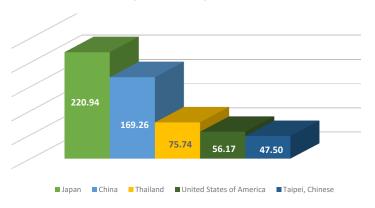




On the export side, the trend shows a positive number with a value of 6.28% / year where in 2013 the export value reached US \$ 403.1 Million and experienced growth to reach US \$ 571.1 Million in 2017. In terms of World imports in 2013, the trend showed figures import value reached US \$ 5.52% / year where in 2013 the value of imports reached US \$ 594.6 million and grew to US \$ 805.71 million in 2017.

Based on the results of a study in the Journal of Applied Phycology (2017), seaweed contains beneficial nutrients such as Vitamin C, Vitamin B, Vitamin A, Vitamin E, Iron and Iodine. Not only that, seaweed also contains antioxidants which function to protect the body from oxidative stress and reduce inflammation at the cellular level. So it is not surprising that the demand for seaweed in the world has increased from year to year.

5 Seaweed Importers Countries 2017 (in US \$ Million)



five largest importers countries of seaweed products in 2017 are (1) Japan with an import value of US \$ 220.94 million (market share of 27.42%); (2) China with an import value of US \$ 169.26 million (market share of 21.01%); (3) Thailand with an import value of US \$ 75.74 million (market share 9.40%); (4) United States with an import value of US \$ 56.17 Million (market share 6.97%); and (5) Taiwan, China with an import value of US \$ 47.50 Million (market share of 5.90%).

5 Seaweed Exporters Countries 2017 (in US \$ Million)



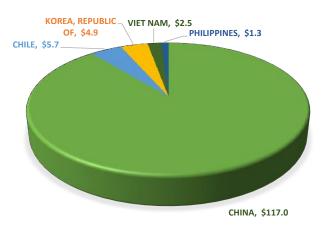
Whereas the world seaweed supplier in 2017 is (1) South Korea with an export value of US \$ 283.38 Million (market share of 49.62%); (2) Indonesia with an export value of US \$ 40.42 Million (23.69% market share); (3) China with an export value of US \$ 40.42 million (market share of 7.08%); (4) Japan with an export value of US \$ 19.33 Million (market share 3.38%); and (5) the United States with an export value of US \$ 11.46 million (market share of 2.01%).



Indonesian Seaweed Export Performance 2013 - 2017 (in US \$ Million)



Indonesian Seaweed Export by Destination 2017 (in US \$ million)



Indonesia's position as a world seaweed supplier cannot be underestimated, since 2013 the export value of Indonesian seaweed is ranked second and continues to grow each year with a growth value of 1.54% / year. It was recorded in 2013 that the export value of Indonesian Seaweed reached US \$ 99.08 Million and US \$ 136.04 Million in 2017. The increase in export value in 2017 was influenced by high prices and demand for seaweed in the World market.

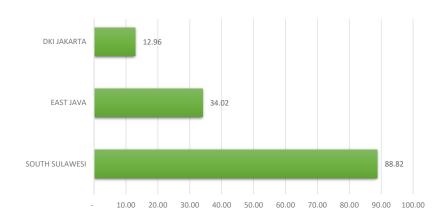
The export performance of Indonesian Seaweed in the period January - November 2018, recorded a value of US \$ 176.93 Million of this value experienced a significant increase from the same period the previous year of 49.02%, where in that period the export value reached US \$ 118.73 Million.

The main destination country of Indonesian seaweed exports in 2017 is China with an export value of US \$ 117.03 Million. This value has increased by 19.02% from the previous year which recorded a value of US \$ 98.33 Million. Besides China, Indonesian seaweed has been successfully exported to Chile, South Korea, Vietnam and the Philippines with the export value of US \$ 5.72 Million to Chile, US \$ 4.89 Million to South Korea, US \$ 2.48 Million to Vietnam, and US \$ 1.29 Million to the Philippines.

Speaking of Indonesian seaweed products, 3 provinces that are active in carrying out the largest export activities in 2017, namely (1) South Sulawesi with a value of US \$88.82 Million; (2) East Java with a value of US \$34.02 Million; and (3) DKI Jakarta with a value of US \$12.96 Million.



Seaweed Export of Indonesian - World, 2017 by Province (in US \$ Million)





In January - November 2018, the export value of the 3 provinces was US \$ 107.58 million, exported by South Sulawesi, US \$ 42.15 million exported by East Java and US \$ 25.56 million exported by DKI Jakarta.

Indonesian seaweed products that have been exported to date are still raw materials which are dried and do not have high added value. The Indonesian government through the Ministry of Maritime Affairs and Fisheries of the Republic of Indonesia has prepared steps and strategies through the development of national seaweed industrialization. Some efforts will be made, namely through the development of cluster-based seaweed cultivation areas, the development of seaweed seedlings from tissue culture and the development of a seaweed seedling garden system that meets aesthetics.

The East Indonesia region is an area that will be industrialized national seaweed. Since 2016, the Ministry of Maritime Affairs and Fisheries has pioneered the development of seaweed centers in East Nusa Tenggara, Papua and West Papua, Maluku, NTB, Sulawesi and other potential areas.

To support this industrialization, the Government of Indonesia will collaborate with PELNI and ASDP. The two agencies are agencies directly involved in the management of sea tolls. Through this sea highway, it is expected that all fisheries sector potential, including seaweed, can be distributed more quickly.



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