



What is the GLOEA?

The Global Ocean Energy Alliance (GLOEA) is a pioneering international organization committed to advancing ocean energy technologies. Its primary focus is to foster climate-resilient economies, as a part of the United Nations Industrial Development Organization (UNIDO) and SIDS DOCK Ocean Energy Industry Platform for Blue Economies.



SIDS DOCK Ocean Energy Projects in the Pacific & Caribbean Regions

Pacific Region Project: Strategy to Help Accelerate the Transfer of Ocean Energy Technologies to Pacific Small Island Developing States (PSIDS): "The Pacific SIDS High-Level Learning Tour of the Okinawa Prefecture Deep Ocean Water Research Center, Okinawa, Japan"

Caribbean Region Project: Sids Dock Waste-To-Energy (Wte) Programme: Energy Services From Organic Waste: Integrated Waste Management Solutions For Coastal, Marine And Freshwater Protection In Small Island Developing States: "Pilot Project: Conversion Of Sargassum And Energy Services From Organic Waste Into The Belize Energy Mix"

Who is the GLOEA for?

GLOEA is tailor-made for nations most vulnerable to climate change and whose economies are heavily dependent on fossil fuels, specifically targeting Small Island Developing States (SIDS) and Coastal Least Developed Countries (LDCs).

GLOBAL OCEAN ENERGY ALLIANCE (GLOEA)



Okinawa Prefecture Deep Ocean Water Research Center (ODRC) and related Industries

On 23rd May 2023, at the twelfth meeting of the SIDS DOCK Executive Council, the Council decided to engage with the Government of Japan, through the Permanent Mission of Japan to the United Nations, regarding support for the SIDS Ocean Energy Programme, and in particular, Ocean Thermal Energy Conversion (OTEC), and a Proposed Pacific SIDS High-Level Learning Tour of the Okinawa Prefecture Deep Ocean Water Research Center, in Okinawa, Japan, for some time in 2023, as part of the *President's Personal Initiative (2022-2023): Commercial-Scale Deployment of Ocean-based and Waste-to-Energy SIDS-Appropriate Technologies.*

From 13-16 November 2023, a high-level delegation embarked on a tour of the Okinawa Prefecture Deep Ocean Water Research Center, in Okinawa, Japan, that was supported by the Japan International Cooperation Agency (JICA). The delegation was headed by H.E. Mr. Va'inga Tōnē, Ambassador and Permanent Representative, Permanent Mission of the Kingdom of Tonga to the United Nations and Chair of the SIDS DOCK Executive Council, and included H.E. Dr. Tapugao Falefou, Ambassador and Permanent Representative of Tuvalu to the United Nations and the SIDS DOCK Executive Council Member from Tuvalu, and Mrs. Matilda Bartley, Deputy Permanent Representative, Permanent Mission of the Independent State of Samoa to the United Nations (representing H.E. Permanent Representative, Permanent Mission of the Independent State of Samoa to the United Nations and the SIDS DOCK Executive Council Member from Samoa).

SIDS DOCK & The Japan International Cooperation Agency (JICA): Fostering A New Partnership in Ocean Energy in the Pacific and Ocean Bioenergy in the Caribbean



PSIDS	Population (2021)	GDP (USD)	Capacity MW	OTEC MW
Cook Islands	17,602	283,000,000 (2020)	25	1,313,035
Samoa	201,537	790,000,000 (2021)	60	104,384
Tonga	106,963	490,000,000 (2020)	25	444,034
Tuvalu	12,142	63,100,962 (2021)	5	193,000
Fiji	883,483	4,950,000,000 (2021)	357	859,980
TOTAL	1,221,727	6,576,100,962	472	2,914,433

During COP28 in Dubai, at a SIDS DOCK Side Event on 6th December 2023, on a "Call For Ocean Climate Action! "Driving The Blue And Green Economy Aspirations Of Small Island Developing States Through Ocean Energy," Ambassadors Tōnē and Falefou shared some of their experiences, with Tuvalu, making the case to be considered as the first Pacific SIDS to develop and deploy an OTEC facility in cooperation with Japan.

Pilot Project: Conversion of Sargassum and Energy Services From Organic Waste into the Belize Energy Mix



Sargassum seaweed invasion is damaging Caribbean coastlines and economies. To address this urgent concern, Prime Minister of Belize, the Hon. John Briceño, led a delegation of technical experts to Berlin, Germany in September 2022, to explore modern technologies and cooperation opportunities in the fields of waste management and renewable energy. The delegation met with Variodin AG, a Hamburg-based company, to explore technological solutions for managing waste, particularly sargassum. The mission allowed the delegation to better understand the waste-to-energy technology involved with converting sargassum seaweed into an energy mix capable of contributing to the country's power grid.

During his visit, Prime Minister Briceño also met with several German Federal Government officials to discuss cooperation opportunities and climate-related priorities. Prime Minister Briceño met with the Minister of State Dr. Tobias Lindner of the Foreign Federal Office, State Secretary Christiane Rohleder of the Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection, and the Leader of the German Green Party Mr. Omar Nouripour. Prime Minister Briceño's delegation included Ambassador Stuart Leslie, Cabinet Secretary; Raineldo Urbina, Chargé d'Affaires, a.i. from the Embassy of Belize in Brussels; Mr. Raymond Mossiah, Chief Tourism Officer from the Ministry of Tourism & Diaspora Relations; and Mr. Wolf Kahles, Belize's Honorary Consul to Stuttgart, Germany. The delegation was further supported by technical experts from the SIDS DOCK Secretariat and the United Nations Industrial Development Organization (UNIDO).

In September 2023, Prime Briceño further raised the alarm about the devastating effects of the Sargassum seaweed invasion damaging Caribbean coastlines and economies, and announced that Belize will be developing and deploying the first pilot project to develop and deploy the Caribbean region's first waste-to-energy facility, a \$50 million investment, capable of converting Municipal Solid Waste (MSW) and Sargassum to biofuels as a diesel replacement fuel, and to execute a Power Purchase Agreement (PPA) for baseload sustainable power from the facility, for potential scale-up through climate finance and other sources of funding.

Prime Minister Briceño has responsibility for the SIDS DOCK Waste-to-Energy Portfolio, and said that the initiative comes at no financial cost to the Government of Belize, and this is one of the values and advantages of a public-private partnership involving the Government of Belize, the SIDS DOCK Secretariat, the United Nations Industrial Development Organization (UNIDO), and Variodin, Ag., a German private sector company specializing in development of technologies for energy and waste conversion.

In October 2023, the SIDS DOCK Secretariat, in cooperation with the Ministry of Foreign Affairs and Foreign Trade of Belize, hosted a meeting with Japan International Cooperation Agency (JICA) Caribbean representatives on current projects in the SIDS DOCK Caribbean Indicative Project Pipeline, and noted that at the top of the list is the Belize pilot waste to energy project that will help address the regional Sargassum problem. The meeting was Chaired by Dr. Albert Binger, Secretary-General, SIDS DOCK Secretariat and attended by Ms. Christine Neves Duncan, Chief of Staff & Project Director, SIDS DOCK Secretariat, Mr. Kenny Williams, Senior Solid Waste Management Officer, Belize Solid Waste Management Authority, and Mr. Yoshikazu Tachihara, Resident Representative of JICA Belize, and Mr. Tatsuya Morita, Japan International Cooperation Agency (JICA) Expert, Partnerships and Project Support Department, CARICOM Secretariat.



Pilot Project: Conversion of Sargassum and Energy Services From Organic Waste into the Belize Energy Mix



The Secretary-General updated the JICA representative on the progress being made in developing the technologies to harvest the Sargassum and to process it in a waste to energy facility currently under design. Mr. Morita noted that he has had discussions with several Caribbean countries about the problems and the burning need for a solution, that has yet to be identified, and commended Belize, the SIDS DOCK Secretariat and UNIDO, for the innovative project.

The Japan International Cooperation Agency (JICA) is the Japanese government agency responsible for executing Japanese Official Development Assistance (ODA). JICA has 96 overseas offices (as of July 2020) and conducts ODA projects in 150 developing countries (during fiscal year 2019). In the Caribbean, JICA has offices in St. Lucia, Jamaica, Belize and Dominican Republic, and in the Pacific, offices in Fiji, Marshall Islands, Federated States of Micronesia, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Vanuatu.



JAPAN CARICOM FRIENDSHIP YEAR2024



The year 2024 marks the 30th anniversary since the first Japan-CARICOM Consultation, as well as the 60th anniversary of the establishment of diplomatic relations between Japan and Jamaica, and Trinidad and Tobago, respectively.

For participation in the anniversary project, please visit: https://www.mofa.go.jp/region/latin/caricom/page23e_000648.html

For grant programs of the Japan Foundation, please visit: <https://www.jpf.go.jp/e/program/index.html>

