



EEP MAGAZINE

EASTERN ENERGY PLUS CO.,LTD.

"ZERO WASTE is a concept for effectively addressing community waste issues, requiring collaboration from all sectors. At the source, households must separate waste before disposal. Along the way, waste collectors must employ proper methods for collection. At the destination, waste disposal authorities must choose appropriate methods for each type of waste."



Abinash Majhi
CEO EEP GROUP

Implementing the United Nations' **Zero Waste**

Approach to Address Global Waste Overflow at the Local Level

in Samut Prakan Province, Thailand

The Eastern Energy Plus (EEP) Group, under the leadership of its CEO, Mr. Abinash Majhi, is confident that the current global urban waste crisis, occurring daily in cities worldwide, can ultimately be alleviated by embracing the Zero Waste principles. Mr. Abinash believes that the issue of overflowing city waste can be successfully addressed by adopting a Zero Waste approach, ensuring that waste is managed to the extent that none is left behind. However, successfully solving the problem of overflowing municipal solid waste requires genuine collaboration from all sectors within the community.



The current issue with municipal solid waste in Thailand still largely stems from the lack of awareness among the general population.

"I am confident that if every day we can reduce the generation of all types of waste and if people cooperate by separating their waste before disposal, we will be able to quickly and effectively implement appropriate methods for disposing of the remaining small amounts of each type of waste that still exist each day. This will lead to a day when no waste is left behind. The issues of odors emanating from landfill sites and dust from garbage truck movements will be alleviated until they eventually disappear."

This is the perspective that Mr. Abinash Majhi, the CEO of Eastern Energy Plus Limited, or EEP Group, wishes to convey not only to the residents of Samut Prakan province but also to the people in other provinces across Thailand.



EEP GROUP



"Many have asked me whether being a comprehensive waste management business owner in Samut Prakan province, I hold such beliefs. I respond that indeed, my employees actively propagate these beliefs to the public. It doesn't negatively impact the company's operations; in fact, it has both positive and negative consequences. On the positive side, I can efficiently reduce the volume of each type of waste, contributing to a more effective waste disposal system."

Mr. Abinash Majhi explained that reducing the creation of waste to "Zero Waste" (Zero Waste) is a concept that supports the circulation of resources through use and reuse. To get the most benefit until there is no residue Especially municipal waste or solid waste from the household Which no matter where you thrown away, it smells bad. Because it is a variety of types of garbage that everyone, every family, every house, helps to create it every day. Whether it is wet, fresh waste, fresh waste, vegetables, fruits, meat, food scraps, dry waste, waste, waste, used plastic bags, ready-cooked food, paper boxes, candy envelopes, bags of goods, dirty foam boxes, these waste when thrown together into garbage bags. And still poured into the trash in front of the house To wait for the time when the garbage truck to collect and transport It will be rotten and smell bad since then. And when it is collected from all areas in Samut Prakan Province Sent to dispose of the landfill, it means that the smell is sent to the disposal area.



"Today, EEP, we are attacked as a stinker that interferes with the life of the community around us. Even though we are in the municipal solid waste management business of Samut Prakan Province, here for 20 years, before the village, before the community before the government agency will follow us again. "



The smell of municipal solid waste is a work that every

It is not surprising that if we accidentally pass through the trash can area in front of the house in the community, or when the garbage truck is pouring garbage out of the tank to the end of the car, the smell of garbage that is unique, it will smell so bad that we almost breathe. Even when the garbage truck runs along the road to the garbage disposal place, we still smell the garbage coming out of the garbage truck along the way. *And how will it be possible to give the landfill or the waste disposal place that is completely free from the bad smell of garbage?*

Garbage and bad smell belong to each other..

It's a truth that can't be denied.

Thai food is mainly cooked from meat, vegetables and seasonings. And the Thai family still has a way of thinking about food that *"There is so much that you can't eat it all. It's better than not enough to eat."* Therefore, every household often focuses on cooking in large quantities. Therefore, there is a reason for the waste of vegetables, meat, food scraps that occur every meal. In addition, most Thai people do not like to separate the waste before throwing away. Therefore, when the garbage is thrown together in the trash that is located outdoors In the midst of hot weather, we Thailand, even for a short time, there will be rotten, smell bad smell. The more you are dumped with garbage, plastic bags, put in food and other containers for half a day or more than a day. Before the garbage truck will come to collect. These garbage is spoiled and spoiled again until it is difficult to separate.. Which smell is the smell? *Thai household waste does not stink.. It's not garbage anymore!*



How can good waste management help reduce the problem of bad smell of garbage?



The correct waste management can shorten the period of accumulated rot. Which can be done from the beginning is at each person's house The middle of the way is between collecting garbage from the garbage source to the garbage disposal place. And the destination is the place to dispose of waste Separation before discarding is the beginning of helping to protect the environment.

Garbage separation from home is the beginning of waste management at the source.

If every household gives importance to the separation of waste into each type of waste before taking it out of your own home. By separating the waste that occurs into 4 types for the convenience of using each type of waste to use or to eliminate as appropriate for each waste, such as fresh waste, food waste, vegetables, meat, can be separated into bags or containers. Recyclable waste, such as glass bottles, plastic water bottles, aluminum cans, paper, paper, aluminum cans, steel scraps, be separated into another bag. Used plastic bag type waste The dirty paper waste is separated into another bag. And dangerous waste, the type of phone battery, flashlight, lighter, cans, chemical packing is put into another bag, etc.

Or if you think it's difficult, you can only separate the waste into 2 types: wet waste, fresh waste that can be rotted and dry waste that is not rotten. The separation of waste is each type from the beginning like this. In addition to helping the freshness of waste management in the middle of the way is to enter the collection. And the destination is to eliminate It will also reduce the time of composting the waste as well.



Collecting garbage from trash cans in community sources to garbage disposal sites.

Waste management process in the middle of the way.

If each type of waste is separated from the house When brought to the central trash, whether it is a trash can in front of each house Or the central trash can of the community Will help the car garbage collection Make the separation of garbage easier.

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Bringing each type of municipal solid waste to use until there is no waste left (Zero Waste)

When the garbage truck brings the municipal solid waste to the waste disposal source All waste will enter the waste disposal process of each. Which may use a different process For example, some places may use the bulk method. Some use the landfill method. Some use the incineration method. In this step, this destination.

For example, using fresh waste, wet waste, which is organic waste, to produce EM microbial water or fermented into organic fertilizers. As for waste, plastic bags, it is used to be used in the production process as a fuel. RDF (Refuse Derive Fuel) for waste power plants used to generate electricity. Other types of recyclable waste are sent to the source of products from recycled materials. Dangerous waste is sent to be disposed of to specific disposal sources, etc. Can do this, all types of waste will be eliminated until there is no waste left (Zero Waste)



Which area's garbage is created? That area must be responsible together.

In the management of waste disposal.

The CEO of EEP Group returned to the point that was mentioned at the beginning that garbage and the smell of the smell belong to each other. And the smell of garbage is disgusting for everyone, even though everyone is the one who created together When creating a bad smell If you come to show disgust and will push this smell to other people's houses There will be no other house to accept. Therefore, the municipal solid waste of any province must find a disposal source in that area in that province only and the government sector has this regulation in force so who will think to push the waste from their own province to throw across the province is an illegal action.



"I can confirm that EEP company adheres to local laws Therefore, at the company's landfill. Therefore, it has not received cross-district waste from Bangkok or other metropolitan provinces. As many people definitely allude to through social media."

The zero waste lifestyle is a way that allows the community and municipal solid waste to coexist.

Mr. Abinash Majhi expressed the view that the best way of living together between the community and garbage is **"Everyone must cooperate"**.

1) People in that area must change their living habits by opening up to the concept of **"Zero Waste"** and then using the principle of **"1A3Rs and separating waste from home"** to practice until it is used to and deeply embedded in the mind, it will help reduce the situation of municipal solid waste and the waste disposal process is



For the 1A3Rs principle, it consists of



Avoid is avoid actions that cause waste, such as not using materials that cause waste that are difficult to eliminate. Or the problem of the bad smell of rotten waste caused by food waste will be reduced if people are responsible for buying raw materials in cooking or people who are responsible for cooking, always thinking that will buy, cook, just to fit the number of members, will only eat until there is no case. As for the eater, must always think that the food is only suitable to eat as well. If everyone is treated until this habit There will be no food scraps left as wet waste, fresh garbage.

Reduce is reduce the use of materials that cause waste, such as using a personal glass to put drinks at the store instead of putting a plastic bag. Use banana leaves to wrap food for sale instead of using plastic bags or foam boxes. Use a cloth bag to put products instead of using a plastic bag. Use dried hyacinth as a cushioning material in the parcel box instead of using shockproof plastic, etc.

Reuse is reused again and again. Until it can't be used and then thrown away, for example, bringing a glass bottle to build a vegetable garden pond to grow vegetables to eat in the household. Bringing a plastic water bottle to be converted into a vase, planting a small tree Bringing clothes that are still in good condition but outdated Come to apply and decorate to be a new set of clothes, etc.

Recycle is the use of old items to be processed into new products and used for maximum benefit, such as bringing clear plastic water bottles to be processed into woven fibers for sewing into garments. Using plastic waste that cannot be invented or modified into any product again as RDF fuel for waste power plants, etc.

Separating community waste before throwing it away is **separating waste** before throwing it away. It is a process that will help to get rid of each type of community waste cleanly and faster.

1 A 3 R s

2) Government sectors with relevant duties in the area and waste disposal agencies, whether public or private, in the area must work together to find appropriate measures to manage community waste in the most appropriate way that can be done together. With mutual understanding and accepting the truth that the problem of municipal solid waste occurs because the community is the creator. The solution to solve this problem, even if it takes time gradually, is that the community and other sectors with related duties must be aware of this problem, including the solution to this problem. Then move together to solve the problem at the same time.

3) Cultivating seeds of ideas according to the Zero Waste way into youth consciousness is to start solving problems from the root. EEP Group believes that the solution of municipal solid waste problems that can only be achieved must be due to the serious cooperation of all sectors in the community. And serious cooperation will be possible. Must be caused by all people are aware of the dangers that will occur to health and the environment both today and in the future. But the spark of the Zero Waste fire in the heart of the adult people is difficult and not sustainable.



"I believe that the Zero Waste lifestyle will help solve the problem of municipal solid waste problems in Samut Prakan Province sustainably. Now, small private companies like EEP Group have started proactive activities. To spark the fire of thought for Samut Prakan people by cultivating the concept of zero waste management or Zero waste must start at us. "

Penetrate with the principle of 1A3Rs according to the Zero Waste and waste separation from the beginning to spread to the community.

Since the beginning of 2023, EEP Group has begun to clearly define the direction of penetration. with a systematic plan to carry out social activities Media production for public relations of all types in the same direction Joining with the municipality and the SAO. Bring the knowledge of waste management to the end. By using the 1A3Rs principle according to the Zero Waste and the separation of waste from the beginning, including the use of each type of waste to transfer to the kindergarten students, elementary to the middle school. Of government schools under the local government organization The lecture and demonstration of the use of waste to the public sector These activities continue and will continue for many years.



"Any school, any local government organization, any government sector in Samut Prakan that is interested and willing to cooperate with us, we are also full. For the adult public sector, we organize a team of garbage conquerors, which are our employees. Go out to lecture and demonstrate how to take advantage of dry waste, wet garbage by creating a key vegetable plot. For the community and the government sector that is interested in collaborating with us As for the youth level, we go to organize additional teaching activities in the school. All that we do is a proof that we adhere to the business ethics that We will not cause trouble by intention to the community, society, the environment we live. We will live with that society in a friendly and return that society according to the way that we can do. "



Provide a PM 2.5 air quality monitor to the school located near the company.



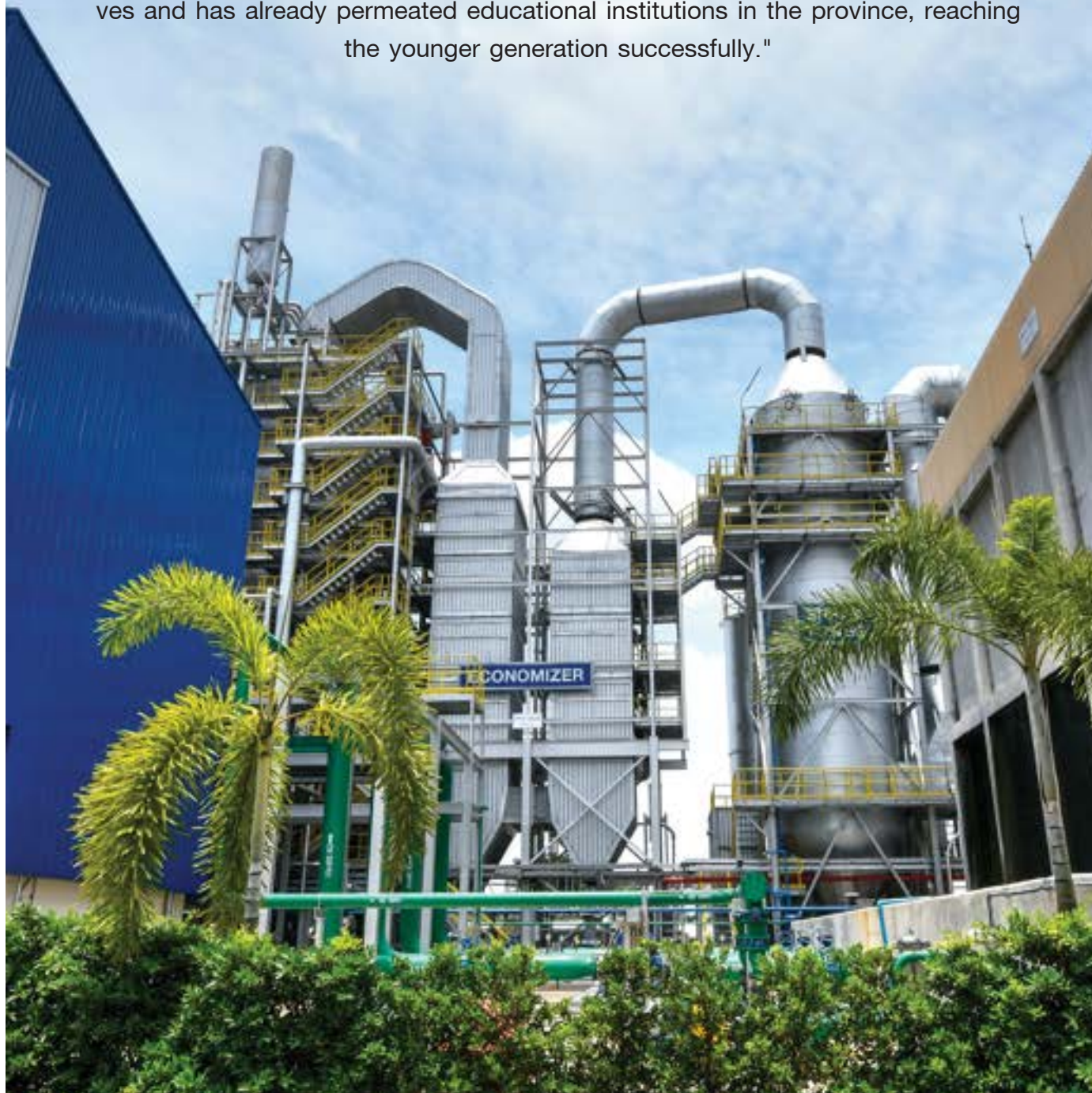
A water spray vehicle to alleviate PM 2.5 dust levels.



Organize a Zero Waste Day activity for the children at the Early Childhood Development Center.



"The Zero Waste lifestyle will contribute sustainably to addressing the community waste issues in Samut Prakan province. Currently, small private enterprises like EEP Group have initiated proactive activities to ignite innovative thinking among the residents of Samut Prakan by instilling the concept of waste management at its core or adopting a Zero Waste approach. The movement starts within ourselves and has already permeated educational institutions in the province, reaching the younger generation successfully."



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