

14.5 MILLION TONS OF FOOD GO TO WASTE EVERY YEAR!

The balance of food waste, which occurs due to reasons such as rotting of foods while harvesting or not consuming products by excessive shopping, results in 1 out of every 3 foods produced in the world going to waste. Zeynep Türkmen, Head of Cooking Department at Istanbul Gelisim University, stated that reducing food waste will create a positive social and environmental impact as well as economic benefits.

FOOD WASTE IS MOSTLY MADE AT HOME

Food waste, arising from people's consumption habits and reaching a global dimension, also accounts for 8% of carbon emissions that cause climate change. Zeynep Türkmen, Head of Gelisim Vocational School Cooking Department, indicated the following:

“Waste can be prevented with fundamental changes to be implemented in living spaces. Studies demonstrate that most of the food waste is done in our homes. Bread and bakery products, vegetables and fruits are at the top of the most thrown away foods. One of every 4 breads bought into homes is thrown away every day. It is of great significance to gain conscious consumption habits in preventing food waste. With a correct and planned program, food waste in homes can be prevented and thousands of foodstuffs can be prevented from going to waste.”

DO YOU KNOW WHERE YOUR WASTE GOES?

Food waste, which poses a great threat to the future of humanity, can have serious consequences if no action is taken. Our future is under threat with every food wasted. Emphasizing that consumers should first know what they throw in the trash, Lect. Türkmen emphasized that food waste can be prevented with the following 3 steps. Here are those steps:

1- Planned and smart shopping is a must!

By adding the products whose expiration date is approaching to the weekly cooking list, you can consume the products without spoiling them. At the same time, shopping can be done more frequently but in small amounts compared to the weekly cooking list.

2- Cook according to your needs

Prepare portions by calculating the number of people in the house. Add little by little while serving on the plate. In this way, it will be easier for you to store inedible food.

3- Store foods correctly

Any food that is stored correctly preserves its taste and benefits. It should be protected by paying attention to the storage conditions of the food.

In addition to these, Lect. Türkmen expressed that food for animals and organic fertilizer for plants can be obtained from food residues. The harm caused by unconscious consumption can be eliminated with more effective and correct consumption habits.

“FULL GAS CUT-OFF CREATES 41% DAMAGE!”

Dr. Lokman Kantar and Dr. Kenan Sentürk, faculty members at Istanbul Gelisim University, evaluated the possible dangers that await European countries in the event of a gas cut by Russia.

Upon the cessation of operations at the Zaporizhia Nuclear Power Plant, which is under Russian control, production at Europe's largest nuclear power plant was completely terminated. The Russia-Ukraine War, which started in the first months of 2022, caused increases in the prices of gas and oil imported from Russia, especially wheat products. Asst. Prof. Dr. Lokman Kantar from Istanbul Gelisim University stated that the dependence of European Union countries on Russia's energy resources is about 30%. Asst. Prof. Dr. Kenan Sentürk, on the other hand, emphasized that the emerging Ukraine-Russia crisis may cause a review of the situation in energy policies in countries such as Germany, which needs Russian gas, and that the interest in nuclear energy can be expected to increase in these countries.

ENERGY POLICIES MUST BE REDETERMINED!

Nuclear reactors, which have been the subject of controversy since the first years of their use, are used not only in energy production, but also in the production of isotopes used in medicine and industry. Asst. Prof. Dr. Kenan Sentürk emphasized that nuclear energy does not produce carbon and indicated the following:

“The criticisms made about nuclear energy are basically based on the fact that radioactive waste management is very difficult and limited, the initial investment of nuclear power plants is expensive, and the consequences of mistakes or accidents that may arise can cause heavy costs. On the other hand, the fact that nuclear energy is a type of energy that does not produce carbon, that it provides reliable and continuous energy, and that nuclear power plants can be used to produce isotopes that may be needed in medicine and industry, should also be taken into consideration. The countries that benefit most from nuclear energy are the USA, China, France, Russia and South Korea. In particular, while France provides more than 70% of its electrical energy needs by using nuclear reactors, this rate remains at the level of 10% in Germany. It can be predicted that the Ukraine-Russia crisis may change the situation in countries such as Germany in the form of increased interest in nuclear energy”.

The rise in oil prices results in changes in energy policies and inclination towards new energy types, particularly in countries with high oil imports. Accordingly, the interest in nuclear energy may increase with recent developments. Asst. Prof. Dr. Sentürk underlined that no energy technology is completely safe, hence energy policies may need to be redefined.

IN CASE OF A GAS CUT OFF SCENARIO, WE MAY ENCOUNTER THESE 4 SCENARIOS

Russia makes a significant part of its natural gas and oil exports to European Union countries. The sanctions imposed on Russia by European countries from time to time caused Russia to direct its gas and oil exports to the Asian market instead of the European market. Russia aims to increase the share of natural gas exports to East Asia to 30% by 2035 by laying a pipeline to China through Mongolia. Asst. Prof. Dr. Lokman Kantar stated that European countries directed their gas demand to Norway, CNG (Compressed natural gas) and underground storage resources in order to reduce their

dependence on Russia, however, sufficient infrastructure for LNG storage has not been established yet.

“European countries have created various scenarios in case gas cut off by Russia. These scenarios are;

- 1- Russia cuts gas supply to all of Europe,
- 2- Gas interruption only to Northeastern European countries,
- 3- Gas cuts to Eastern European countries,
- 4- Gas cuts to Southwest and Northwest European countries

In the aforementioned scenarios, it is a matter of curiosity from which countries the gas will be supplied and what the effects of this situation will be on the economies of the countries.

THESE COUNTRIES WILL BE MORE AFFECTED BY INCREASING ENERGY PRICES

The loss of gas-related sectors in terms of economic added value will incur a loss of 41.42% in case of gas cuts to all European countries. Asst. Prof. Dr. Lokman Kantar: “If Russia makes a gas cut to all of Europe, the European countries that will not be affected by this gas cut off will be the Northwest European countries (Denmark, Ireland, Netherlands, Norway and the United Kingdom) that have their own gas reserves.

In a possible scenario, the countries that will be most affected by energy prices in the European Union countries will be Bulgaria (1.40%), Estonia, Hungary, Czechia, Slovakia, Finland, Poland and Lithuania, respectively.

THE FLYING CAR TUSI, WHICH IS DESIGNED AND MANUFACTURED BY IGU, ATTRACTED GREAT ATTENTION

The Flying Car Project "TUSI", realized for the first time in Turkey by the Technology Transfer Office (TTO) Application and Research Center within Istanbul Gelisim University (IGU), is exhibited at the "AIRTAXI World Congress" between 13-15 September.

The Flying Car Project, the construction of which started in 2018, was developed by Turkish engineers and students within the body of Istanbul Gelisim University (IGU) Technology Transfer Office (TTO) Application Research Center with the "Technology on the Horizon" slogan. TUSI, which is now exhibited at the AIRTAXI World Congress Urban&eVTOL held at Raffles Istanbul Hotel between 13-15 September, attracted great attention. The sponsorship of the organization was undertaken by large organizations such as Istanbul Gelisim University, Istanbul Airport and Turkish Airlines.

IT CAN BE ADAPTABLE TO THE DEFENSE INDUSTRY, SEARCH AND RESCUE AND AGRICULTURAL SPRAYING

The Flying Car Project TUSI, realized for the first time in Turkey within the body of Istanbul Gelisim University, takes its name from the 13th-century Persian scientist Nasiruddin Tusi. It was designed in the infrastructure of a front-wheel drive 3-wheel vehicle, and was formed from an aluminum chassis and carbon fiber body on an 8-rotor system. Having an engine power of 75 kW, TUSI has a useful load

carrying capacity of 85 kg. In the statement made by the IGU Technology Transfer Office (TTO), it was stated that the Flying Car Project TUSI can be used with remote control or internal pilot control options. Additionally, it was also added that apart from personal use, it can be adapted to the fields of defense industry, search and rescue and agricultural spraying.

“NECESSARY EFFORTS ON NEW PROTOTYPES WILL BE REALIZED”

The charging time of TUSI, whose design and manufacturing phases started in 2018, is 3.5 hours. In its latest developed form, it has a 10-minute stay in the air. A drone version of TUSI, which is working to increase its duration time in the air and useful load carrying capacity, is also included in the plans. Yahya Kemal Kiran, Director of Istanbul Gelisim University Technology Transfer Office (TTO) Application and Research Center, indicated the following: “At the Congress, information was given that electric aircraft, known as eVTOL, could start to be used in cities following the preparation and enactment of the relevant regulations of the state, and that they are being used in the USA and Canada. As Istanbul Gelisim University, necessary efforts will be carried out to accelerate our work, to increase our existing knowledge on flying cars and to produce new prototypes.”

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“CAREER CENTER PEER MENTORING TRAINING CERTIFICATE PROGRAM” WAS HELD

“Career Center Peer Mentoring Training Certificate Program” was organized by IGU Career Development Center between 5-16 September. Managers of significant non-governmental organizations such as “The Educational Volunteers Foundation of Turkey (TEGV)” and “Community Volunteers Foundation” participated in the trainings.

“Career Center Peer Mentoring Training Certificate Program” was held between 5-16 September within the scope of the Peer Mentoring Program created by Istanbul Gelisim University (IGU) Career Development Center and Alumni-Members Coordinatorship. At the end of the program, in which trainings were given in many fields such as Interview Techniques, Sustainability, Social Media Management, Psychological Resilience and Teamwork, certificates were presented to the participants.

PEER MENTOR STUDENTS MEET WITH EXPERTS

In the Peer Mentor Program created by the IGU Career Development Center and the Alumni-Members Coordinatorship, students with strong communication skills and who are prone to teamwork come together and take an active role in career center studies, producing and implementing projects. In this context, students get the opportunity to meet with mentors in special trainings and organizations and develop their competencies and skills in line with the expectations of business life. Peer Mentor students, selected through interviews among 30 thousand students, had the opportunity to get trainings where they could improve their competencies by meeting with experts between 5-16 September.

MANAGERS OF PROMINENT NON-GOVERNMENTAL ORGANIZATIONS PROVIDED TRAINING

Many significant names took place among the participants of the “Career Center Peer Mentoring Training Certificate Program” held between 5-16 September. On the 2nd day of the program, while Kanal D newscaster Deniz Bayramoglu gave "Effective Communication and Body Language Techniques Training", within the scope of the Non-Governmental Organizations Day, prominent names of non-governmental organizations such as Didem Duru, Chairman of the Community Volunteers Foundation, Aykut Taka, the Director of the Educational Volunteers Foundation of Turkey, İbrahim Betil, the Founder of the “Sen De Gel” Association, Alev Akın, the Board Member of the Turkish Women Entrepreneurs Association, and Abdullah Kayadibi, the Green Crescent Education Specialist provided training. After the training, Didem Duru, Chairman of the Community Volunteers Foundation, visited Rector Prof. Dr. Bahri Sahin in his office.