

## Food Technologies: the factory of the future

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**Introduction.** Our planet is changed by humans every second, but is it a way to improve or we are going to a great disaster? If we had researched the ecological conditions of the environment in the last 10 years, we could have seen that they have been getting worse. It has happened because of traffic fumes, water pollution and deforestation. No one can predict the future in detail, but manufacturing will evolve from a more labor-intensive set of mechanical processes to a more knowledge intensive and information technology or digital set of processes.

Unfortunately, Ukraine has dissatisfactory situation with plants and factories. It has a harmful effect for ecological system. In my opinion, if we want to save our nature and health we should start from factories.

My topic is “Innovations in food technologies”, but we will research and discover more. So, I suggest for your attention the plan of the factory of the future and organization of work in it.

If we want to build a big factory, we should know that a lot of energy and resources will be necessary for it. I think four nature resources will be efficient in such case:

1. *Solar cells.* It'll help to make energy from the sun and provide the work of the factory in the daytime.

2. *Windmills.* It will catch the energy of the wind and than, transform it into the electricity. It's modern kind of electricity, which will give the energy in the nighttime or in the period of winds, when there isn't sun.

3. *Rainwater.* The factory of the future should have rain water collecting system. Such system will help save the money and water will be cleaner than the city water. In such case the plant will be fixed out only by nature water. I recommend to change the physical state of water for saving the environment and funds of the owner of the factory. Instead of polluted water we will have relatively clean water vapor and the huge numerous of different filters will help us to make such drops more ecologically.

4. *Magnetic engines.* It'll replace the electric engines. Such engines don't need constant energy as electric engines. It needs only the energy for start and than the power of the magnets will move the wheels (circles) in which this magnets will be placed. In that case the line will move and produce the finished products from the raw materials.

**Conclusions.** Also, using at least one item from this list, any enterprise will have a lot of chances to grow and save the nature, what is really important in our time. Of course, such systems may be very expensive, but it'll pay off.

### References:

1. [www.gulfoodmanufacturing.com/](http://www.gulfoodmanufacturing.com/)
2. [www.foodmanufacture.co.uk/](http://www.foodmanufacture.co.uk/)
3. [www.nutritionistpro.com/](http://www.nutritionistpro.com/)