



SUSTAINABLE PRODUCTION

DR. GULSAH SEZEN AKAR

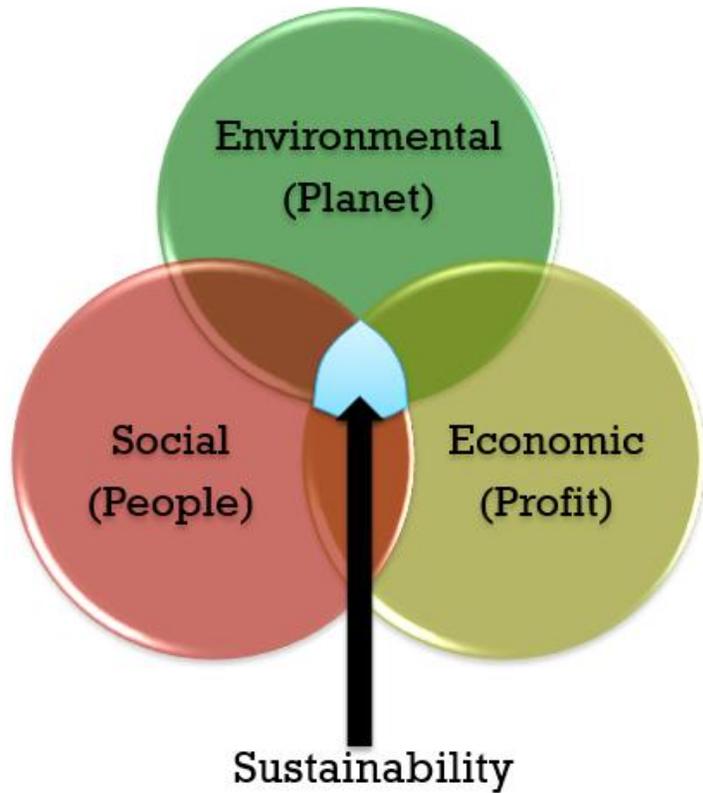
ADNAN MENDERES UNIVERSITY

FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES

Introduction and Background

- After the 18th century, mechanisation increased the volume of production within the industrial revolution. By this, capital accumulation have become an important factor. Higher income levels of consumers lead the firms produce more without consideration of natural resources and the environment.
- At the end of the 20th century, the damage to the environment (such as global warming and climate changes) became unignorable and taking measures became a necessity by countries.
- In 1987, the term of sustainability appeared for the first time in the famous Brundtland Report (Our Common Future) produced by several countries for the United Nations.

Sustainability



«Meeting our own needs without compromising the ability of future generations to meet their own needs»

As a common knowledge, Sustainability is perceived only related with environment. With a wider perspective, Sustainability is the intersection of environmental, economic, and social concepts.

What is 'Sustainable Production'?

Sustainable Production is defined as the creation of goods and services using processes and systems that are;

- non-polluting,
- conserving of energy and natural resources,
- economically viable,
- safe and healthful for employees, communities and consumers,
- socially and creatively rewarding for all working people (LCSP, 1998).

Principles of Sustainable Production

There are nine main principles of sustainable production (Veleva and Ellenbecker, 2001):

1. Products and packaging/services are designed to be safe and ecologically sound throughout their life cycles.
2. Wastes and ecologically incompatible byproducts are continuously reduced, eliminated or recycled.
3. Energy and materials are conserved, and forms of energy and materials used are most appropriate for the desired ends.
4. Chemical substances, physical agents, technologies, and work practices that present hazards to human health or the environment are continuously reduced or eliminated.

Principles of Sustainable Production

5. Workplaces are designed to minimize or eliminate physical, chemical, biological, and ergonomic hazards.
6. Management is committed to an open, participatory process of continuous evaluation and improvement, focused on the long-term economic performance of the firm.
7. Work is organized to conserve and enhance the efficiency and creativity of employees.
8. The security and well-being of all employees is a priority, as is the continuous development of their talents and capacities.
9. The communities around workplaces are respected and enhanced economically, socially, culturally and physically; equity and fairness are promoted.

Is the product sustainable?



Examples of Sustainable Production in Turkey

Multinational Textile Company:

- Reduction of carbon emissions.
- Water and energy saving
- Recruitment of disabled people
- Less waste and support to recycle
- Education to suppliers, stakeholders and workers

Examples of Sustainable Production in Turkey

National White Goods Company

- Sustainable product (Energy saver and quite products)
- Energy saving in production activities.
- Reduction of carbon emissions
- Less waste and support the recycle

Multinational Beverage Company:

- Water saving (For 1 lt beverage, only 1,4 lt water is used . It's the lowest amount among all the production sites of the company.)
- Energy saving
- Designing durable packaging with less material

Examples of Sustainable Production in Turkey

Sustainability Index (BIST)

- Borsa İstanbul (BIST) is national stock market of Turkey. BIST Sustainability Index aims to provide a benchmark for Borsa İstanbul companies with high performance on corporate sustainability and to increase the awareness, knowledge and practice on sustainability in Turkey.

Government

- Law of Environment (1983)
- The regulation on monitoring of greenhouse gas emissions (2012)
- Zero Waste Project (2018) (For organizations and households)

Conclusion

- 'Sustainability' is an important concept in our whole life because it combines environmental balance and economic growth, ensures the effective use of natural resources and gives importance to environmental quality.

Production is also a vital subject for meeting our needs so we have to think 'sustainability' and 'production' concepts all and always together.

Sustainable production is very important for future generations. Therefore, humanity, with its all institutions and organizations should contribute to sustainable production activities.

Conclusion

First of all, sustainability awareness must be increased. Therefore, it should be ensured that sustainable production is extended for all businesses.

Governments should support organizations to decrease their costs caused by sustainable production. And they should not only make laws and regulations but also implement them, in this manner they should put leverage on non-sustainable producers.

Finally, as consumers, we have responsibilities for wellbeing of future generations. We have to prefer sustainable products so our children can live in a world as it should be.

Thank you for listening

