

Title of the Article	WorldSkills: Educational excellence in the development of technical skills, leading solutions for environmental care through the development of renewable energies
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1. SUMMARY

This article contains an assessment of the importance of implementing, within the technical skills in WorldSkills, a new competence called Renewable Energy that will add to the action within the current climate crisis, providing solutions for environmental care in the creation of renewable energies and promoting the preparation and development of sustainable skills.

There are several tasks related to sustainability: data analysis, challenges of climate change and management of natural resources, impact measurement, etc. However, soft skills are also positioned in sustainability: collaborative leadership, assertive communication, innovative thinking, among others.

It is therefore important to teach industry, society and governments the need to create and implement public policies on renewable energy; in education and employment, the training of leaders who are equipped to meet global challenges and thus contribute to sustainable development must prevail.

2. INTRODUCTION

The global trend aimed at guaranteeing the sustainability of energy systems in the social, environmental, economic and productive sector areas, work under the principles of effectiveness and efficiency in the consumption of resources.

Sustainability is understood as development that meets the needs of the present, compromising the ability of future generations to ensure a balance between social well-being, economic growth and care for the environment.

However, despite the global and local value that renewable energies are capable of creating, they do not convince everyone, even though they are able to create: social regeneration, employment, positive impact on the environment, etc.

Therefore, investing in education is a contribution to sustainability, so that the implementation of the renewable energy skill has an important role in the development of the energy sector and includes in its sustainable activities the optimization of the use of resources in an efficient and efficient way, in order to minimize waste and any negative impact on the planet.

It is very positive to know that all WorldSkills partners implement these actions, so the strategy to strengthen skills for the job teaches technicians around the world to adopt practices and ecological practices that guarantee an environmentally friendly competitiveness and productivity.

3. DEVELOPMENT

WorldSkills International is the leading global organization that fosters excellence in professional skills development among young people, and proudly celebrated its 70th anniversary in 2020.

WorldSkills Mexico is made up of students, experts and industry who work together so that Mexico has the qualified workforce that requires commitment in the professional development of youth leaders.

It has stood out for promoting, discovering and developing in young people their technical skills, as well as their soft skills, and fostering in them the culture for the care of the environment; it encourages and encourages them to their highest level, allowing them to open doors to the work environment where they exercise to the maximum their skills and knowledge acquired through world-class technical training, using a global curriculum standardized by the industrial and economic sectors.

With regard to industrial and economic matters, worldwide a crisis is beginning to be faced that requires mechanisms to be activated to take care of the environment.

A new skills competition called Renewable Energy will debut at worldSkills Competition 2022 Special Edition, highlighting a vital sector facing large skills gaps.

The question has been raised whether this technical skill will help mitigate the climate crisis through solutions for environmental care in the creation of renewable energies, promoting the preparation and development of sustainable skills.

The answer is clear, the implementation of this new skill will help to show industry, society and governments the importance of the development and evolution of renewable energies, being crucial to reduce greenhouse gas emissions and limit the increase in average global temperature below 2 °C, meeting two-thirds of global energy demand.

Sustainable energy and energy efficiency are also central to the success of the United Nations 2030 Agenda and Sustainable Development Goal 7: ensure access to affordable, reliable, sustainable and modern energy for all.

Unfortunately, in the year 2020, economies sank due to the COVID-19 crisis, however, renewable energy sources such as wind and solar fotovoltaica, at a higher speed developed que in the previous 2 decades and electric vehicles set records in their sales.

Renewable energies are having great development, being a pleasant news in order to limit the global rise of the temperatures and thus curb climate change, therefore the importance that in all countries research is promoted, as well as the lead projects that provide solutions, especially in developing countries, with the vision of creating an environment of specialized professionals that the industry demands, with the genuine conviction of ensuring the care of our common home, our planet earth.

The human capacity to be creative and find solutions to our problems, working with vocation and vision as citizens of the world, is being taken into action at WorldSkills to develop new technologies and processes that reverse the negative effects already visible on the environment.

4. CONCLUSIONS

The positive impact that renewable energies have on the planet is closely linked to social, economic and environmental regeneration.

The energy transition must occur in a balanced way, trying to minimize adverse effects and enhancing the favorable effects, with a philosophy of positive regeneration that helps repair the wounds that we have already caused to our common home.

Investing in education is a contribution to sustainability, so that the implementation of the renewable energy skill has an important role in the development of the energy sector and includes in its sustainable activities the optimization of the use of resources in an efficient and efficient way, in order to minimize waste and any negative impact on the planet.

The present and future challenges in education to contribute to sustainability, is to discover the skills of those young talents, enthusiastic, busy and concerned about the care of our common home; it is positive that all WorldSkills partners implement these actions and strategies that strengthen skills for the job, teaching technicians around the world to promote specific projects adapted to territorial needs in energy issues.

5. BIBLIOGRAPHY

Sustainability for all. (2020). Renewables as sources of energy and sustainable employment. Retrieved from <http://www.sostenibilidad.com>

FESTO. (2022). Water Technology: Sustainability at WorldSkills Shanghai 2022. Retrieved from [Water Technology: Sustainability at WorldSkills Shanghai 2022 - Brochures & catalogues - Printed Media - Services - Festo Didactic \(festo-didactic.com\)](http://www.festo-didactic.com)

SENA News. (April 23, 2022). WorldSkills competitors are friendly with the planet. Retrieved from <https://www.sena.edu.co/es-co/Noticias/Paginas/noticia.aspx?IdNoticia=4781>

Hernandez, A. (July 9, 2021). Skills for sustainable development: the training we have pending. Recovered from <https://www.expoknews.com/habilidades-para-el-desarrollo-sostenible-la-capacitacion-que-tenemos-pendiente/#:~:text=La%20clave%20es%20implementar%20la%20capacitaci%C3%B3n%20que%20tenemos,social%20indica%20que%20hay%20una%20falta%20de%20especializaci%C3%B3n.>

Diamond, J. (2019). *Crisis: How countries react at decisive moments*. Barcelona. Publisher: Penguin Random House.

Mullainatham, S. & Shafir, E. (2016). *Scarcity: Why does having little mean so much?* Mexico. Publisher: Fondo de Cultura Económica.

Lomborg, B. (2020). *False Alarm*. New York. Publisher: Marrathon.

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