

**Webinar
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T H E M E D

Resilient Women, Resilient World

“A more resilient world through female engineering”

*Eng. Ania Lopez
Rap. Consiglio Nazionale degli Ingegneri (ITALY)
Ex-Co World Federation Engineering Organization (WFEO)*



INTRODUCTION

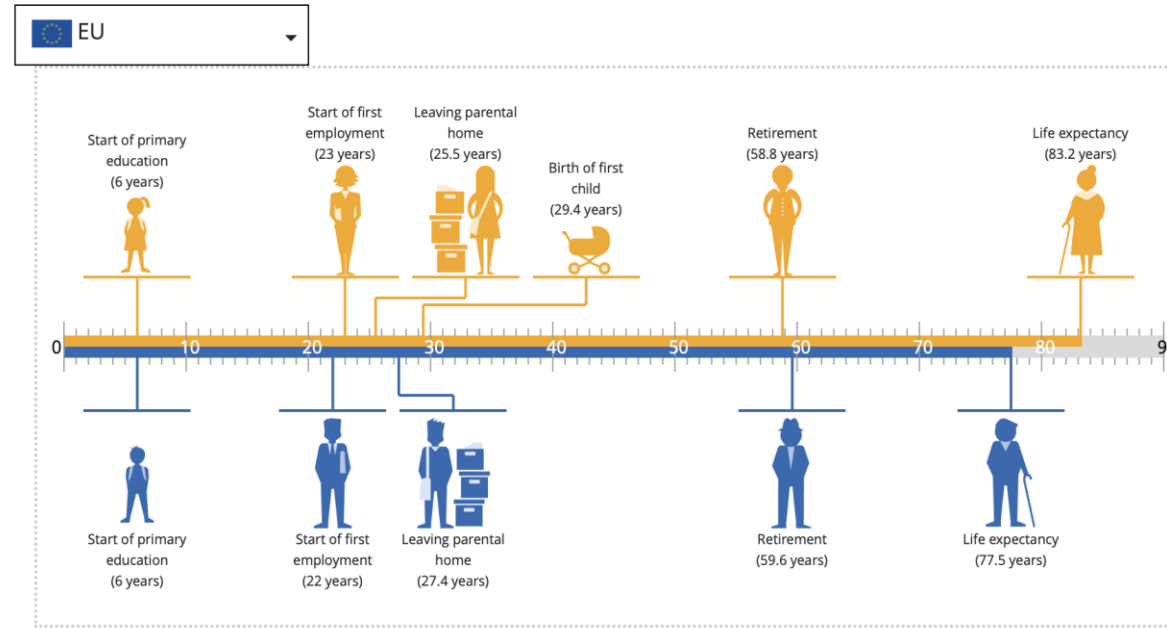
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In the [UNwomen report](#), a prospect of the inequality of women within the SdG is presented.

Globally, women are empowered to achieve, on average, only 60 percent of their full potential, as measured by the [WEI](#), and achieve, on average, 28 percent less than men across key human development dimensions, as measured by the [GGPI](#).*

Lifeline of women and men in EU

eurostat 



What is our proposal as women and engineers for a resilient World?



See you:
Concrete facts,
good practices,
role models



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<https://www.unwomen.org/es/news/in-focus/women-and-the-sdgs>

* indicator: WEI : Woman Empowerment Index and GGPI: Global Gender Parity Index



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Small-scale farmer households headed by women earn on average **30% less** than those headed by men.*

*based on a sample of 28 countries.
SOURCE | UN Women/UNSD, Progress on the Sustainable Development Goals: The gender snapshot 2021.



Concrete facts, good practices, role models

The FIRST Program – Food and Nutrition Security Impact, Resilience, Sustainability and Transformation, is a partnership between the European Union and FAO. The EU and FAO launched a stocktaking exercise to assess progress in improving food security and nutrition in 24 FIRST priority countries.

<https://www.sciencedirect.com/science/article/pii/S2211912420300766>

Copaiba: The “miracle” medicinal tree in Bolivia

In Bolivia, indigenous women known as "the Pioneers" harvest the tree's oleoresin, harvesting it from a carefully drilled hole in the trunk. They then transform it into cosmetic and medicinal products, supervising each part of the production chain.



FAO_ Gender Success stories

2 ZERO HUNGER



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<p>3 GOOD HEALTH AND WELL-BEING</p>	<p>4 QUALITY EDUCATION</p>	<p>5 GENDER EQUALITY</p>	<p>6 CLEAN WATER AND SANITATION</p>	<p>7 AFFORDABLE AND CLEAN ENERGY</p>	<p>11 SUSTAINABLE CITIES AND COMMUNITIES</p>	<p>13 CLIMATE ACTION</p>
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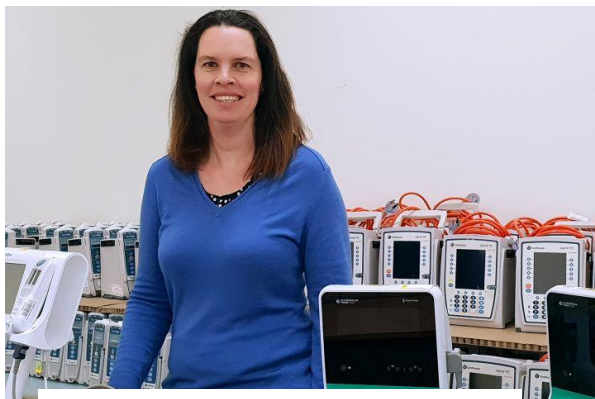
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Women in Medical Physics and Biomedical Engineering (WiMPBME) The group’s main role is to identify, develop, implement, and coordinate various tasks and projects related to women’s needs and roles in medical physics and biomedical engineering around the world.

Hospital heroes: being a biomedical engineer during COVID-19

As clinical engineering manager based at the Royal Melbourne Hospital, Rebecca oversees a team of clinical and biomedical engineers. Together, they manage the lifecycle of every medical device in the hospital. So when the COVID-19 hit Australia, she and her team were responsible for making sure one of Victoria’s largest hospitals was ready.




In the first year of the pandemic, there were an estimated

1.4 million

additional unintended pregnancies in lower- and middle-income countries.

SOURCE | UN Women/UNSD, Progress on the Sustainable Development Goals: The gender snapshot 2021.

3 GOOD HEALTH AND WELL-BEING



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4 QUALITY EDUCATION

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Half

of all refugee girls enrolled in secondary school before the pandemic will not return to school.

SOURCE | UN Women/UNSD, Progress on the Sustainable Development Goals: The gender snapshot 2021.



Concrete facts,
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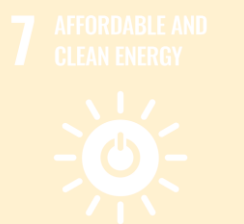
Engineer Girls of Turkey (EGT)*

Project concentrates on developing a private sector driven gender equality mainstreaming program to promote female students participation in engineering professions, and empowering female engineering students.

*Report UN Department of Economic and Social Affairs



Limak Holding



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Gender equality arrives in Italy through the Salary Certification

Law 162/2021 issued to promote the certification of gender equality and lead companies towards concrete policies and measures aimed at reducing gender diversity with respect to growth opportunities, equal pay and tasks , gender differences management policies and maternity protection.

Women are restricted from working in certain jobs or industries in almost 50% of countries.*

*based on a sample of 93 countries.
SOURCE | UN Women/UNSD, Progress on the Sustainable Development Goals: The gender snapshot 2021.

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Challenge 1 – SDG #2: Feeding 10 billion people in a changing climate, How can we sustainably provide affordable, accessible nutritious diets for future populations?

Challenge 2 – SDG #6: Tackling water scarcity for future generations. How can clean water – a resource we cannot live without – be provided in a future where it’s more scarce and at higher risk of pollution?

Challenge 3 – SDG #3: The thriving city is a centre for physical and mental health and wellbeing How can we improve city design and infrastructure, by rethinking new technologies and infrastructure and retrofitting existing ones so that our urban centres become dynamic equitable places for people to live and thrive?

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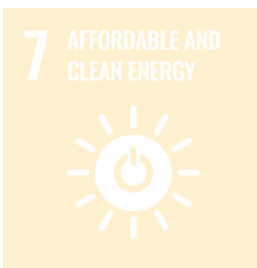
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FINALISTS

- Female - 28
- Male - 23
- They/Them - 2



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Only about
1 in 10 senior managers

in the rapidly growing renewable energy industry is a woman.

SOURCE | UN Women/UNSD, Progress on the Sustainable Development Goals: The gender snapshot 2021.

7 AFFORDABLE AND CLEAN ENERGY

Concrete facts,
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As for the renewable energy sector, a survey by the **International Renewable Energy Agency (IRENA)** showed that women account for 32% of the workforce in the sector worldwide. This is a better figure than in the fossil fuel sector where 22% are women, but they are mostly in administrative roles rather than real STEM jobs, and account for just 8% of managerial positions.

Ensure access to affordable, reliable, sustainable and modern energy for all

Eisha Mohammed, a solar engineer in Mjimwema, a remote village in Tanzania, installs and repairs solar equipment, bringing electricity to many homes in her village. She spent six months training to be a solar engineer at the Barefoot College in India, supported by UN Women and the Government of India.



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WFEO and Small Island Developing States (SIDS)

WFEO is committed to capacity building efforts in engineering in the Small Island Developing States (SIDS) through its national members from Fiji, Mauritius and in the Caribbean, among others.



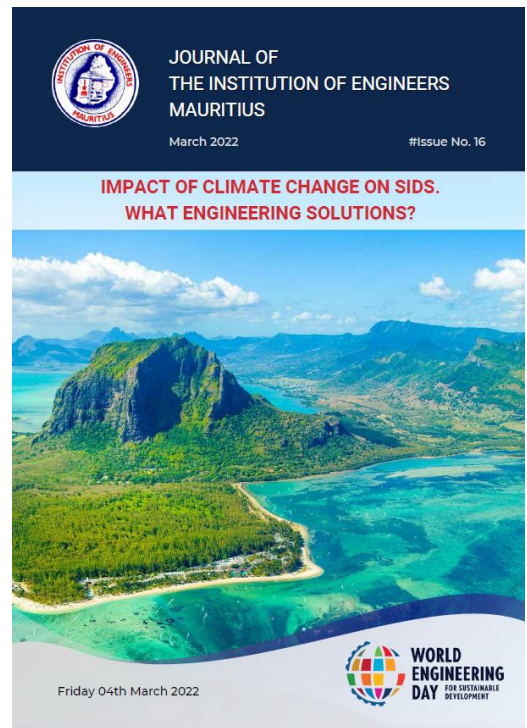
Climate Change Workshop Participants, Mauritius 24 November 2022



Dr Simon Klein, OCE (RHS), in an interactive workshop with participants, Mauritius, 23 November 2022

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The Journal has also set a new benchmark for author diversity: nine out of thirteen articles are female engineers. This is a demonstration of the undoubted ability of women engineers especially in helping to tackle climate change.

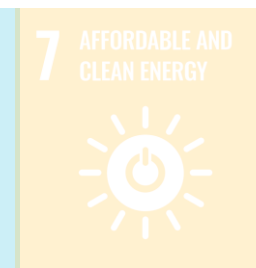
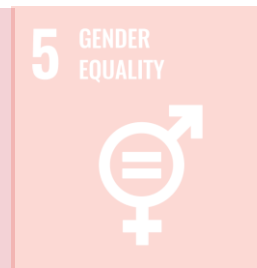


http://www.wfeo.org/wp-content/uploads/2022/SIDS/IEM_Journal_WED2022_FINAL_March_2022.pdf



http://www.wfeo.org/wp-content/uploads/2022/SIDS/IEM_Journal_Engineers_Day_September-2022.pdf

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The challenge:

**Engineers, women and men together,
as actors of economic, social and environmental
development, through a strategic alliance for the
achievement of Agenda 2030 SDGs.**

