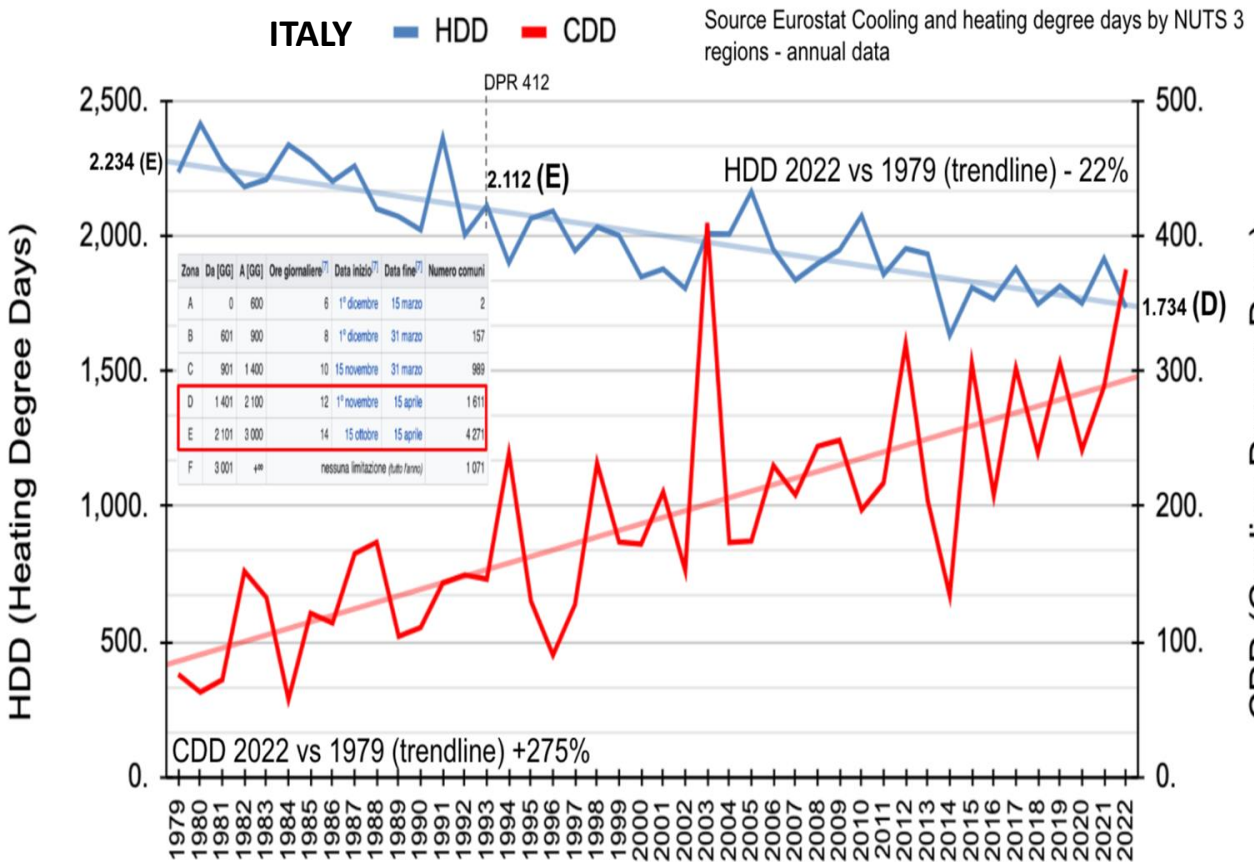
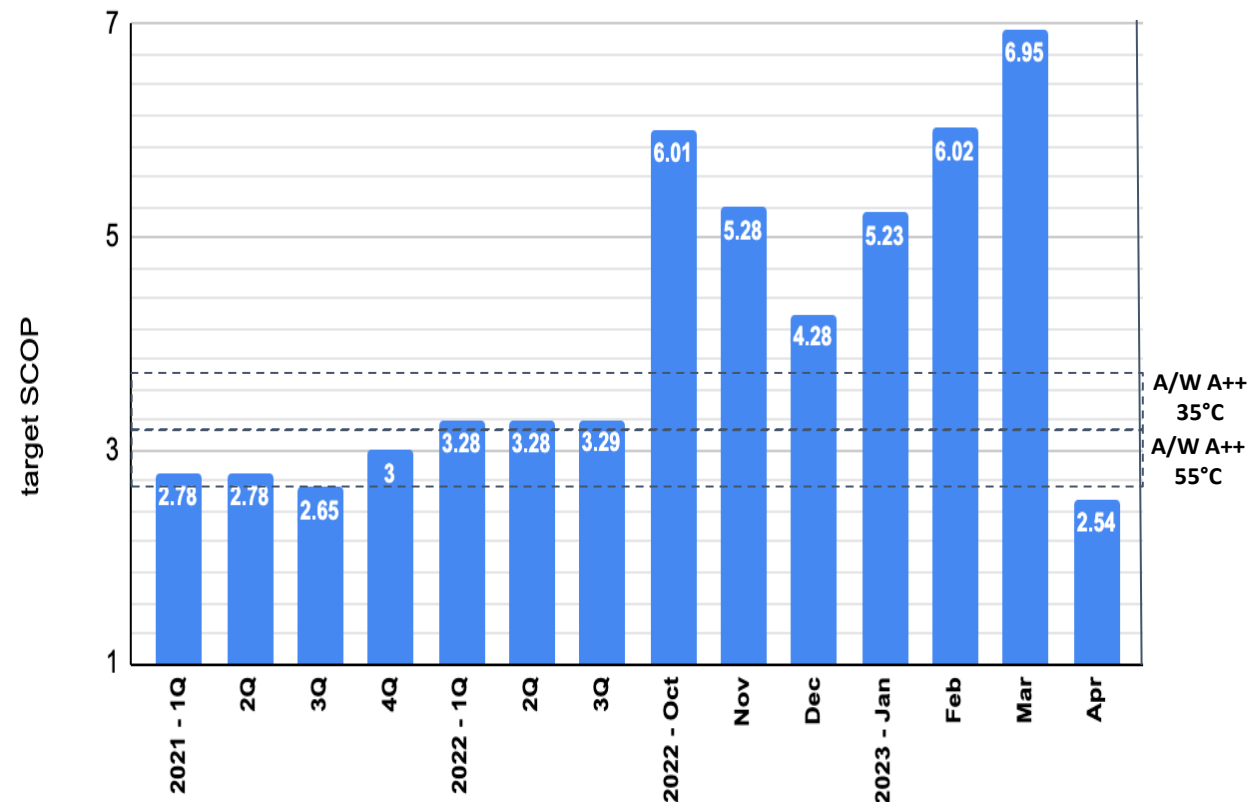


# A new climate has come



# Electricity price matter

## HP Target SCOP to balance Kwt cost with Gas Boiler\*



100%

# REHC Event

*Towards 100% renewable energy-based heating and cooling  
in Europe: A secure energy supply in times of crisis*

25 May

2023

Turin (Italy)

**MARTINI & ROSSI**

**BACARDI Group**

**SHIP2FAIR project**



**Martini & Rossi** applied to the **SHIP2FAIR program**, an **EU initiative** that foster the integration of solar heat in the industrial processes of the agro–food industry

**SHIP2FAIR** has developed & demonstrated, in 3 real industrial sites a set of tools & methods for the development of industrial solar heat.

**SHIP2FAIR** tools:

- **Replication Tool:** software to support the concept design of SHIP projects
- **Control Tool:** online Decision Support System to optimize the management of process heating systems.



<https://twitter.com/SHIP2FAIR>



<http://ship2fair-h2020.eu/>



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 792276.

**Disclaimer:** The sole responsibility for any error or omissions lies with the editor. The content does not necessarily reflect the opinion of the European Commission. The European Commission is also not responsible for any use that may be made of the information contained herein.



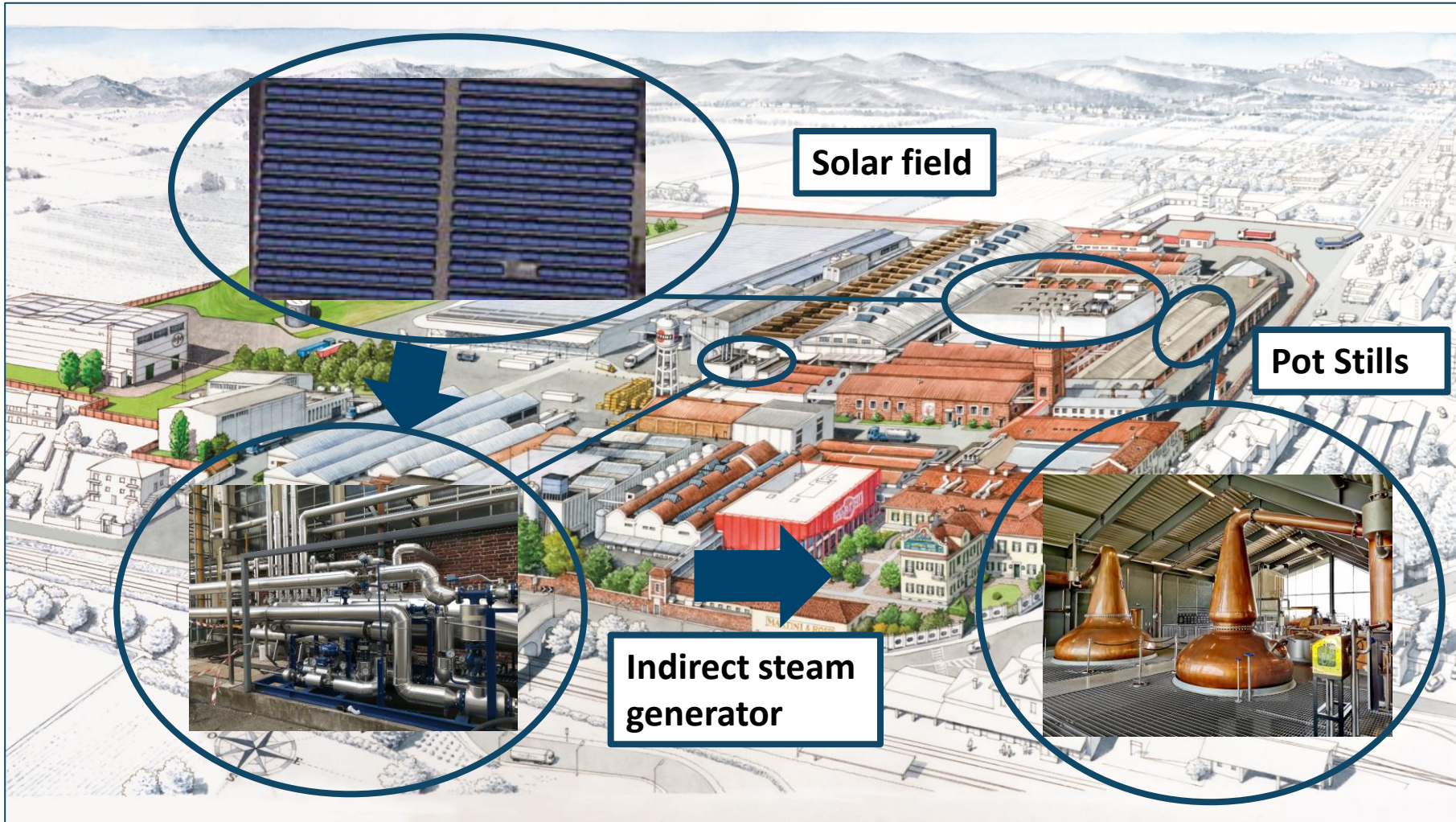
## SOLAR FIELD SPECS

SF Outlet Temperature	177°C
# Of Panels	298#
Gross Area	596m <sup>2</sup>
Installed Area	1.073m <sup>2</sup>
Solar Field Peak Power	329kW
Yearly Energy Production	394MWh/y
Yearly CO2 Saving	93 ton/y
Steam Produced Pressure	3,7 bar



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100%

# RHC Event

*Towards 100% renewable energy-based heating and cooling  
in Europe: A secure energy supply in times of crisis*

25 May

2023

Turin (Italy)

## Thank you!

**lucastel@bacardi.com**

**agiummule01@bacardi.com**

This event is organised by

**RHC** Renewable  
Heating & Cooling

European Technology and Innovation Platform

[www.rhc-platform.org](http://www.rhc-platform.org)



@EtipRhc #ETIPRHC #100RHC

## **Recommendations:**

- Specific regulation for solar power plants in the industrial sector in Italy.
- Standard infrastructure compliant with IT policies (necessary for remote access).
- Subsidies and financing.
- Common standard/rules (such as the control and replication tools).





**Raising awareness, building capacity and catalysing women-led opportunities for the uptake of RHC**

Miriam de Angelis | APRE

[www.w4res.eu](http://www.w4res.eu)



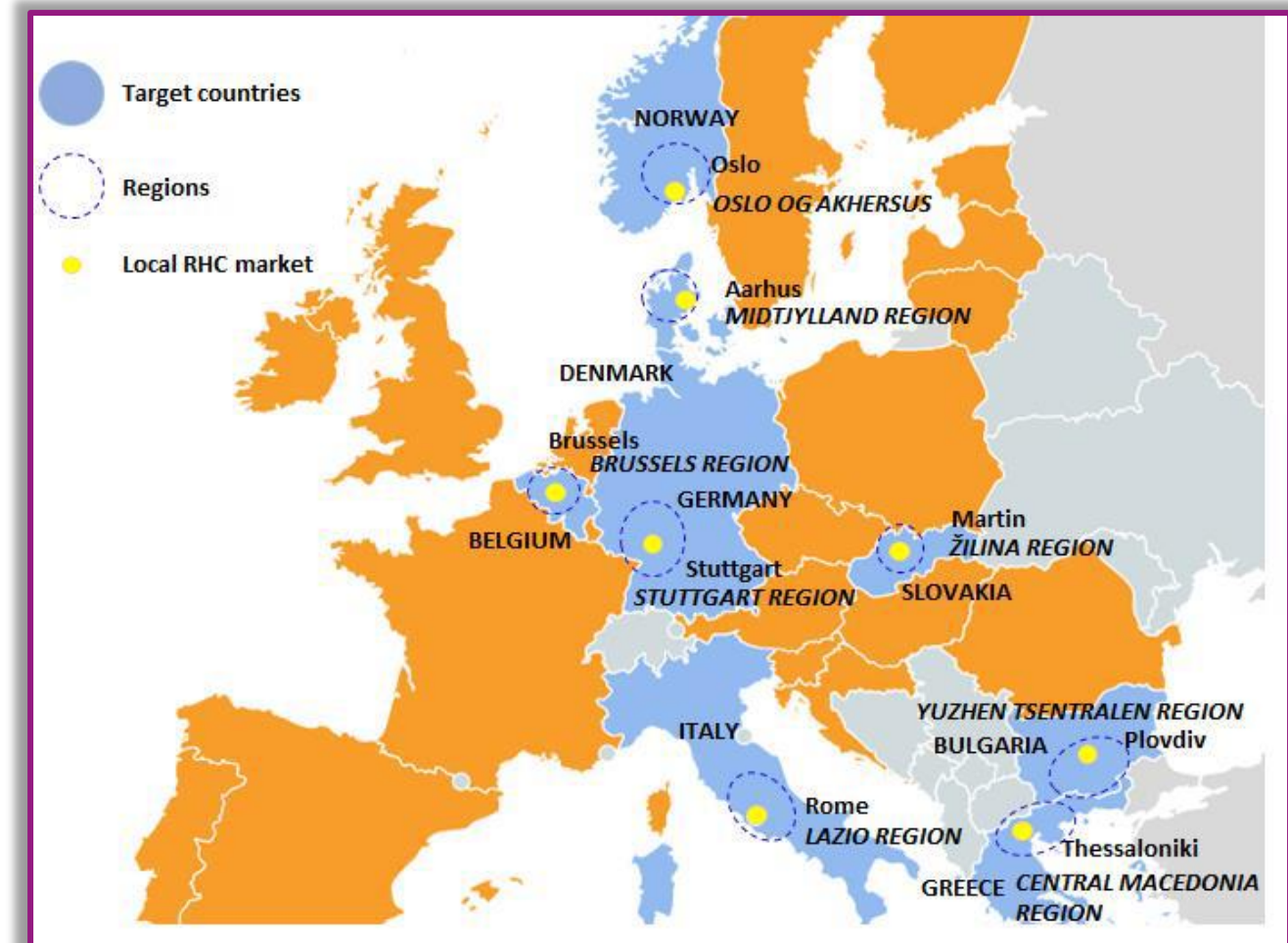
[welcome@w4res.eu](mailto:welcome@w4res.eu)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952874

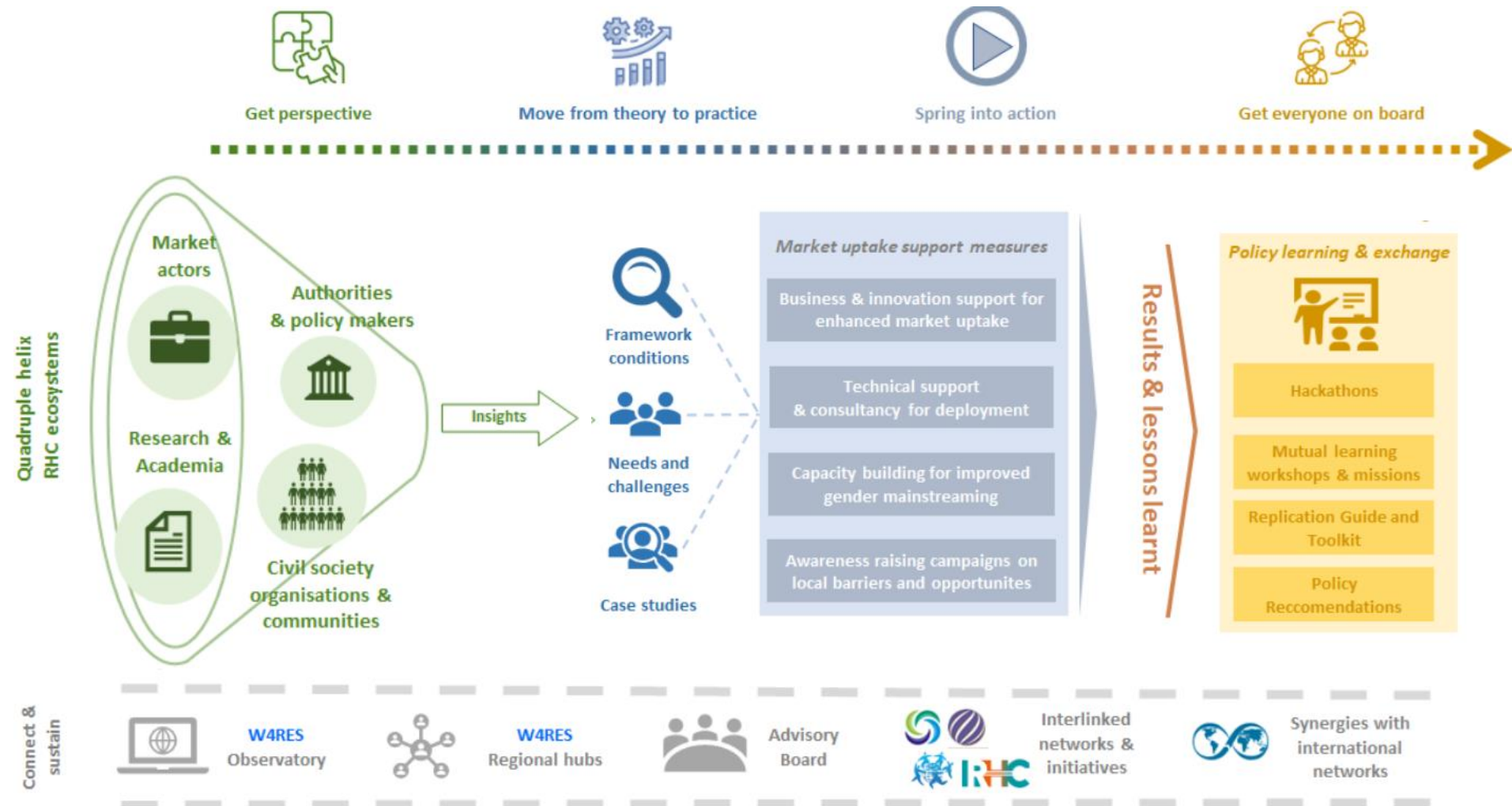


# Tapping into the potential of women for supporting renewable energy in the heating and cooling market

- 12 partners
- 8 European countries



## W4RES in a nutshell



# The Energy Transition

SOURCES:



**GWNET**  
Global Women's Network  
for the Energy Transition

'...is multidimensional, complex, non-linear, non-deterministic.'

Oxford Institute for Energy Studies

1. Radically reforms the existing energy supply and energy systems

2. Goes beyond replacing fossil to clean sources:

-Changes consumption, distribution and investment patterns; coalitions and capabilities of actors; and new socio-technical regimes of policy, regulation, mind-sets, beliefs, and social practices

**The energy transition  
requires:**

Behaviour change, innovation (supply, delivery, usage) and integration  
across sectors

Diverse backgrounds, capabilities, and  
perspectives

A large diverse talent  
pool

# Diversity, Inclusion, and Jobs

SOURCES:



**GWNET**  
Global Women's Network  
for the Energy Transition

## KEY NUMBERS

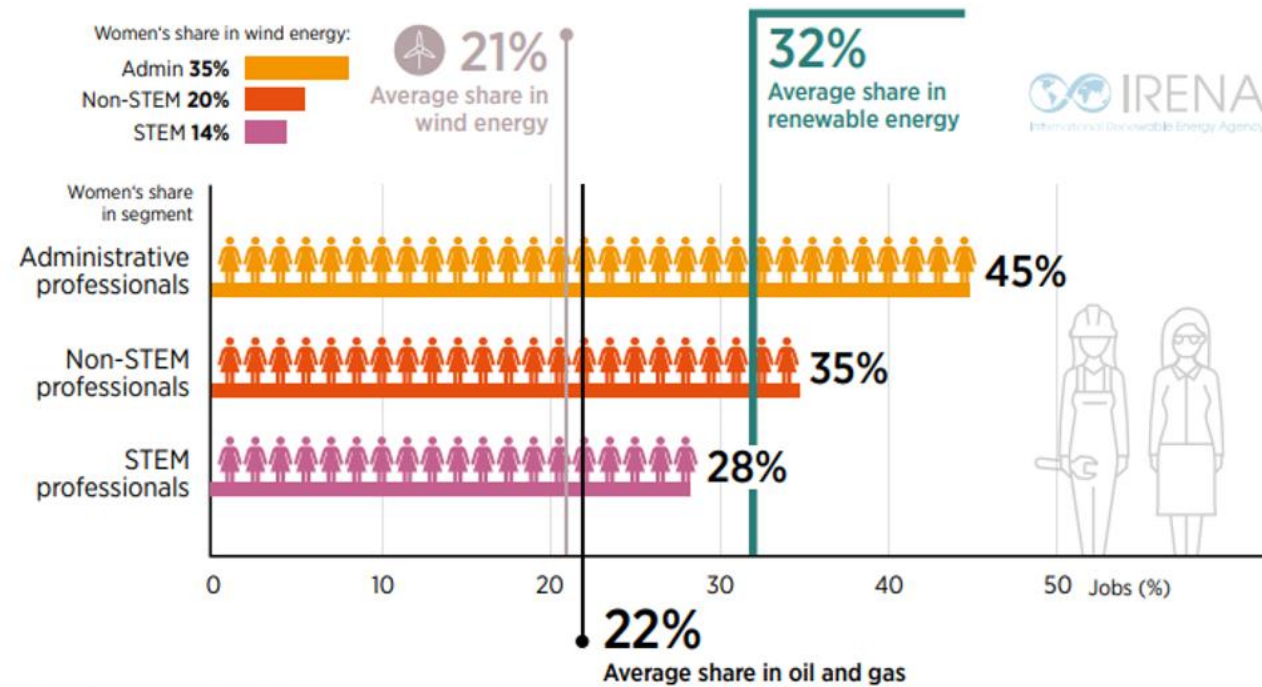
**12** million renewable energy jobs in 2020

**39%** in China

**4** million jobs in the solar PV industry

**32%** of renewable energy jobs are held by women

**Figure 3:** Women's share in the oil and gas, renewables, and wind power workforce, with breakdown by STEM, non-STEM and administrative positions in renewables



Note: STEM = science, technology, engineering and mathematics.  
Based on: IRENA, 2019, 2020b.

# Perceived Barriers to the uptake of RHC solutions

Most prominent



- **Financial:**
  - High prices of RHC solutions
  - Low competitiveness compared to traditional solutions
- **Regulatory:**
  - Uncertainty of regulations
- **Awareness and Communication:**
  - Insufficient information about benefits of RHC solutions / available financial support
  - Insufficient communication and awareness raising channels between the different types of stakeholders.
  - Exception: Denmark and Norway

Least prominent

- **Technical barriers**
  - Satisfying level of technological know-how (if compared to other issues)

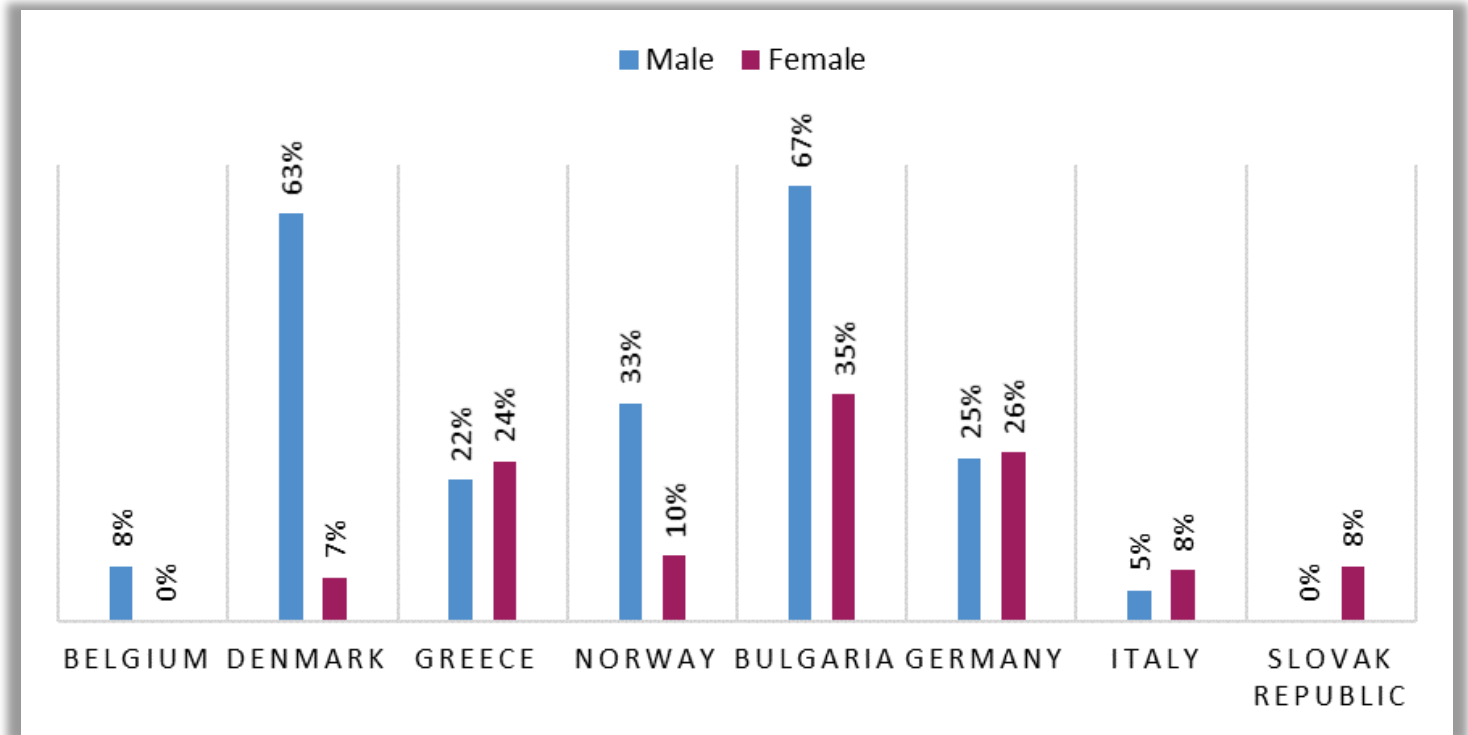


## Perceived female involvement in the RHC sector

Different perceptions between countries

Male respondents overestimate more often female participation

Agreement with the statement  
*“Women participate as much as men in the RHC sector”*  
by country

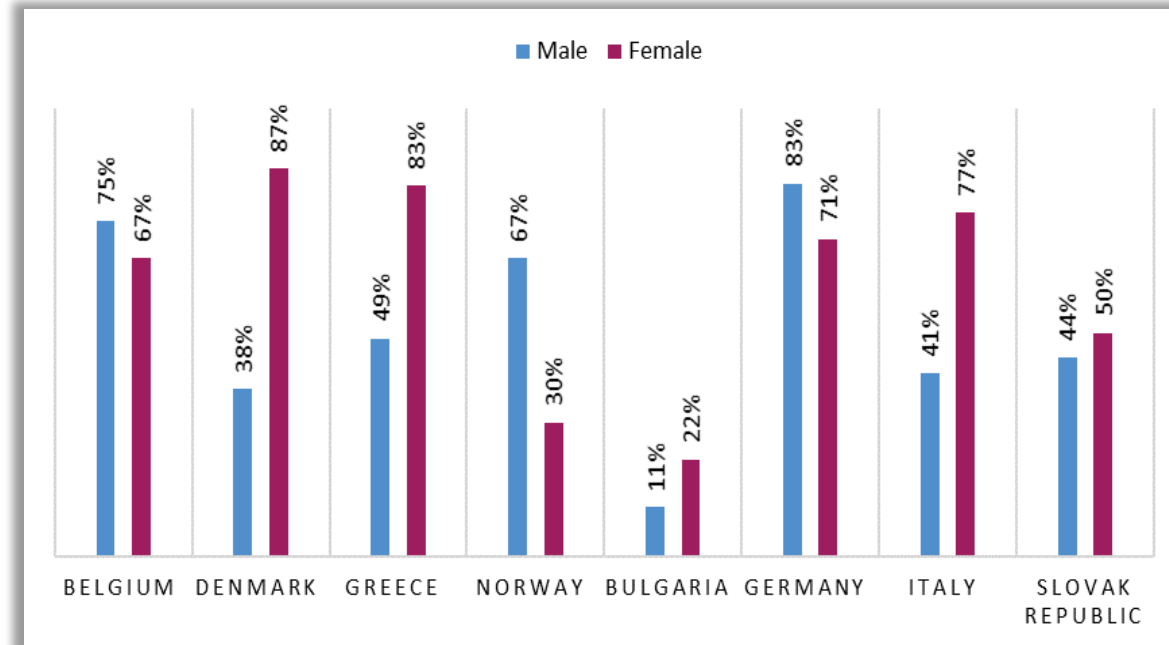
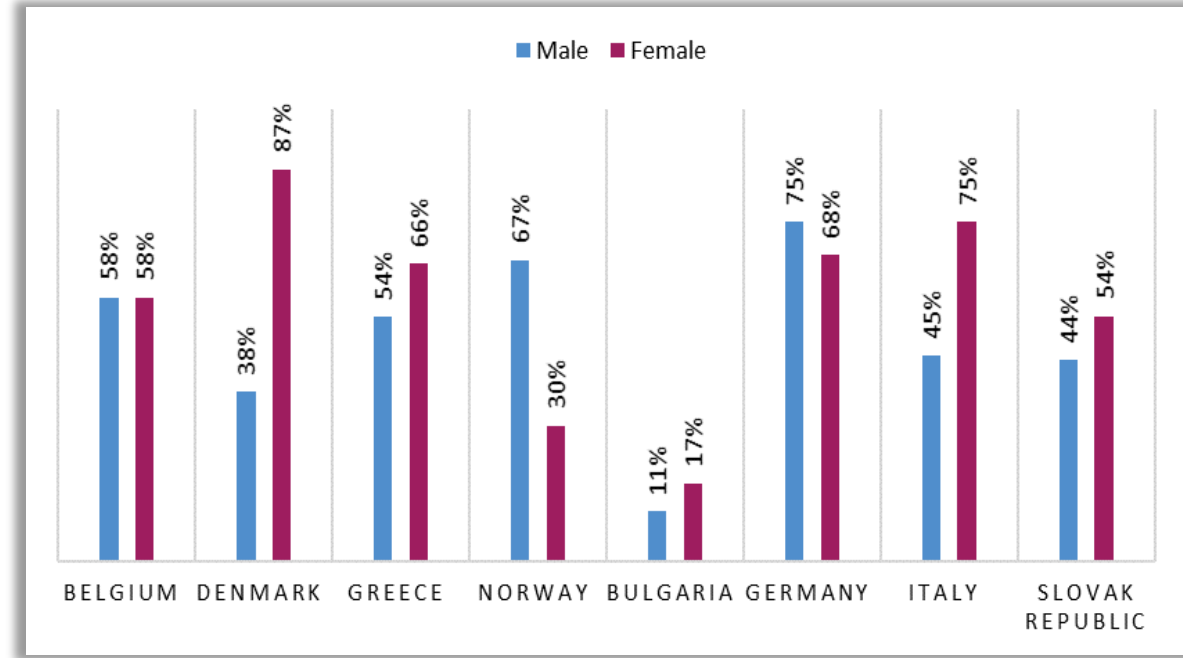


Agreement with the statement

*“There is a lack of female participation on decision-making positions”*  
by country

Generally identified as a significant factor

Lack of women participation in public authorities' roles relevant to RHC



Lack of women participation in decision making positions in Businesses relevant to RHC

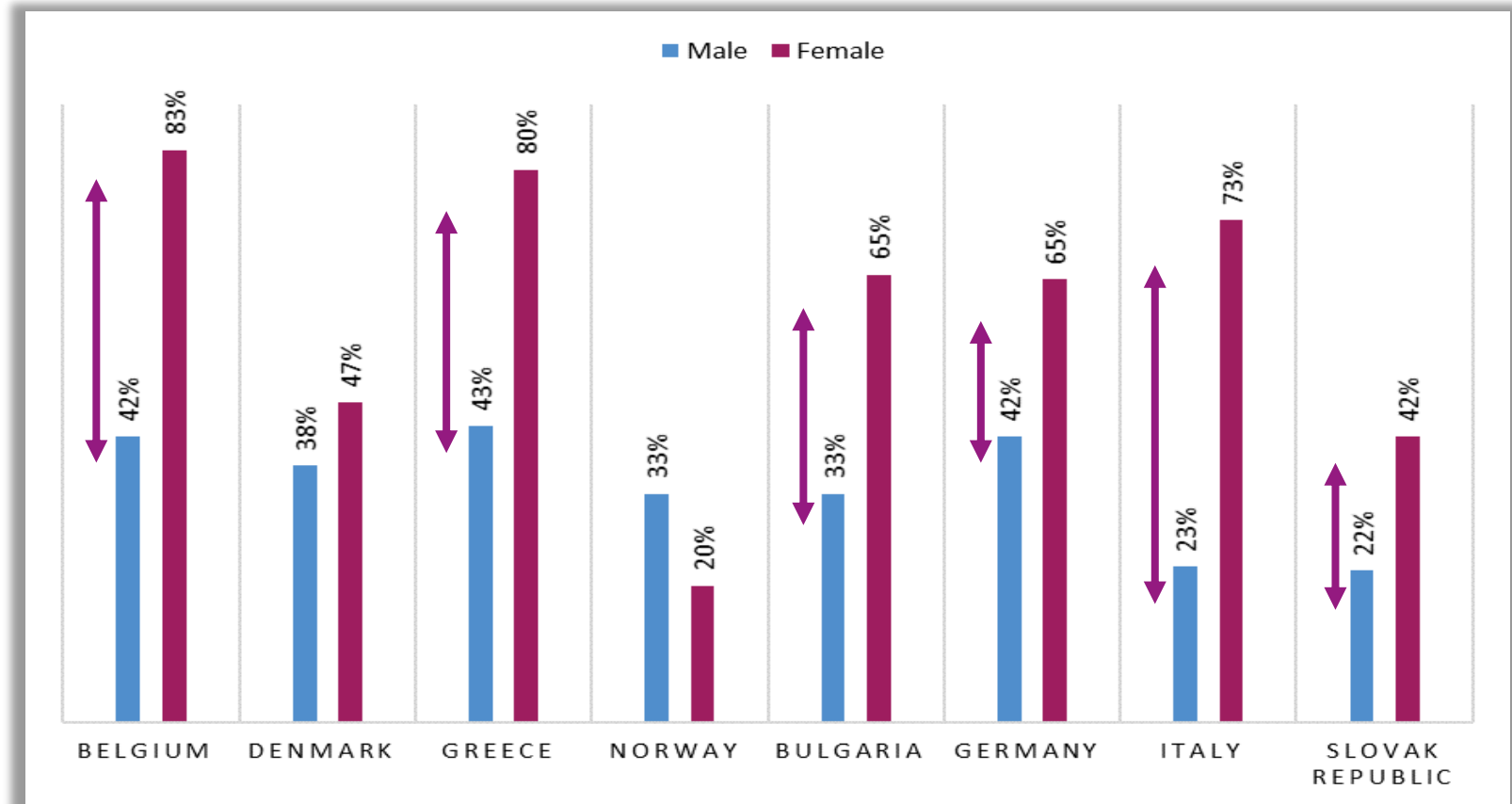
# Perceived barriers to women involvement in the RHC sector

Women perceive hiring practices as biased much more than their male colleagues do

Stereotyped perception of women as lacking the skillset to work in RHC (perpetuated by both genders)

Widely recognized importance of the gender wage gap

Prevailing hiring practices related to women



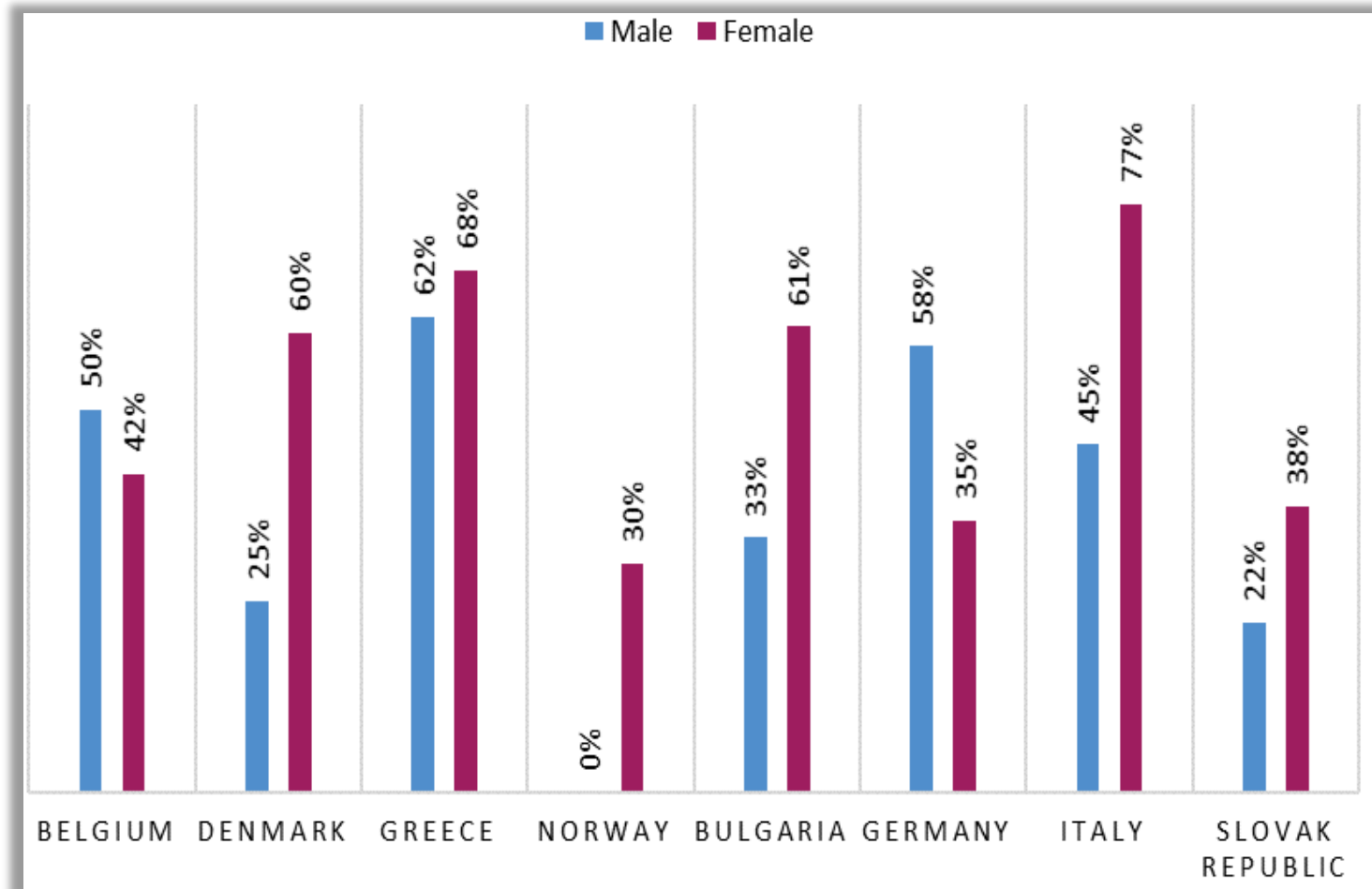
## Perceived barriers to women involvement in the RHC sector

Overall, the barrier recognized the most by male participants

Amplified by the mobility requirements linked to entrepreneurship roles

Linked to the difficult management of work life balance

Lack of support for female entrepreneurs in the sector



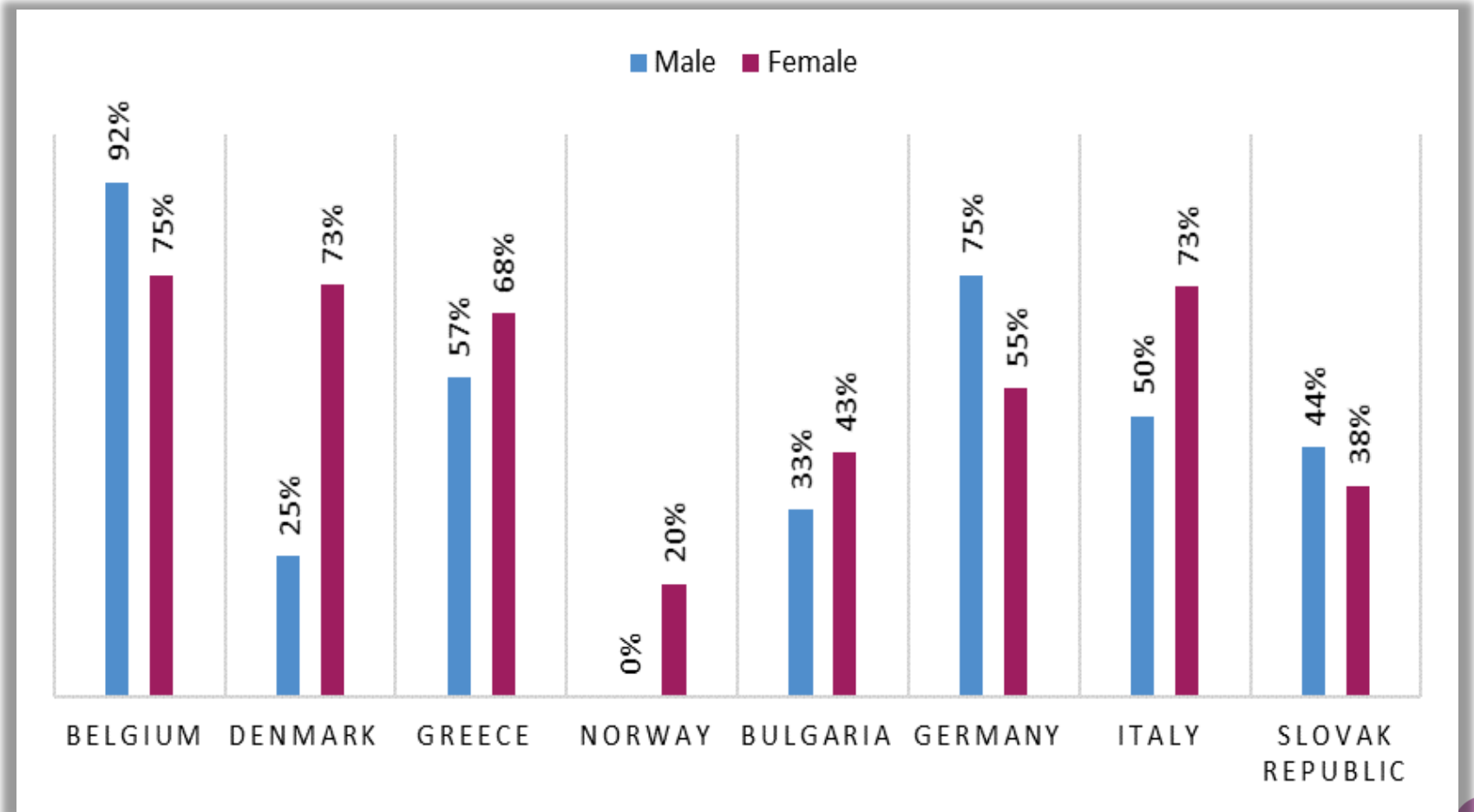
# Perceived barriers to women involvement in the RHC sector

Stereotypes about gender roles do not encourage girls to choose STEM studies

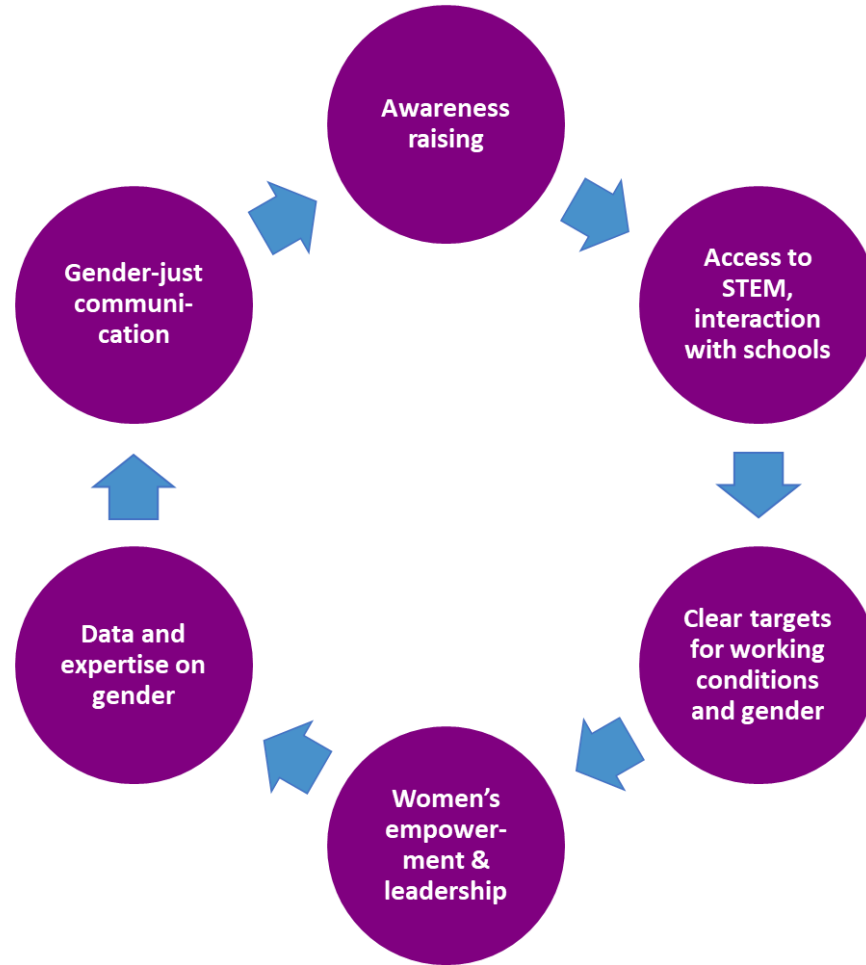
One of the most frequently identified barriers during the interviews

Key factor influencing early career development

Mutually reinforced by the perception that STEM studies / RHC jobs are not appealing for women



*Needs and instruments to increase the share of women in the energy sector*



*“..To be truly transformative, energy access and the energy sector must be linked with **an agenda that challenges the stereotypes of women and that also advances their rights, dignity and visibility in their various roles as consumers, producers, investors, experts, and agents of change..**”*



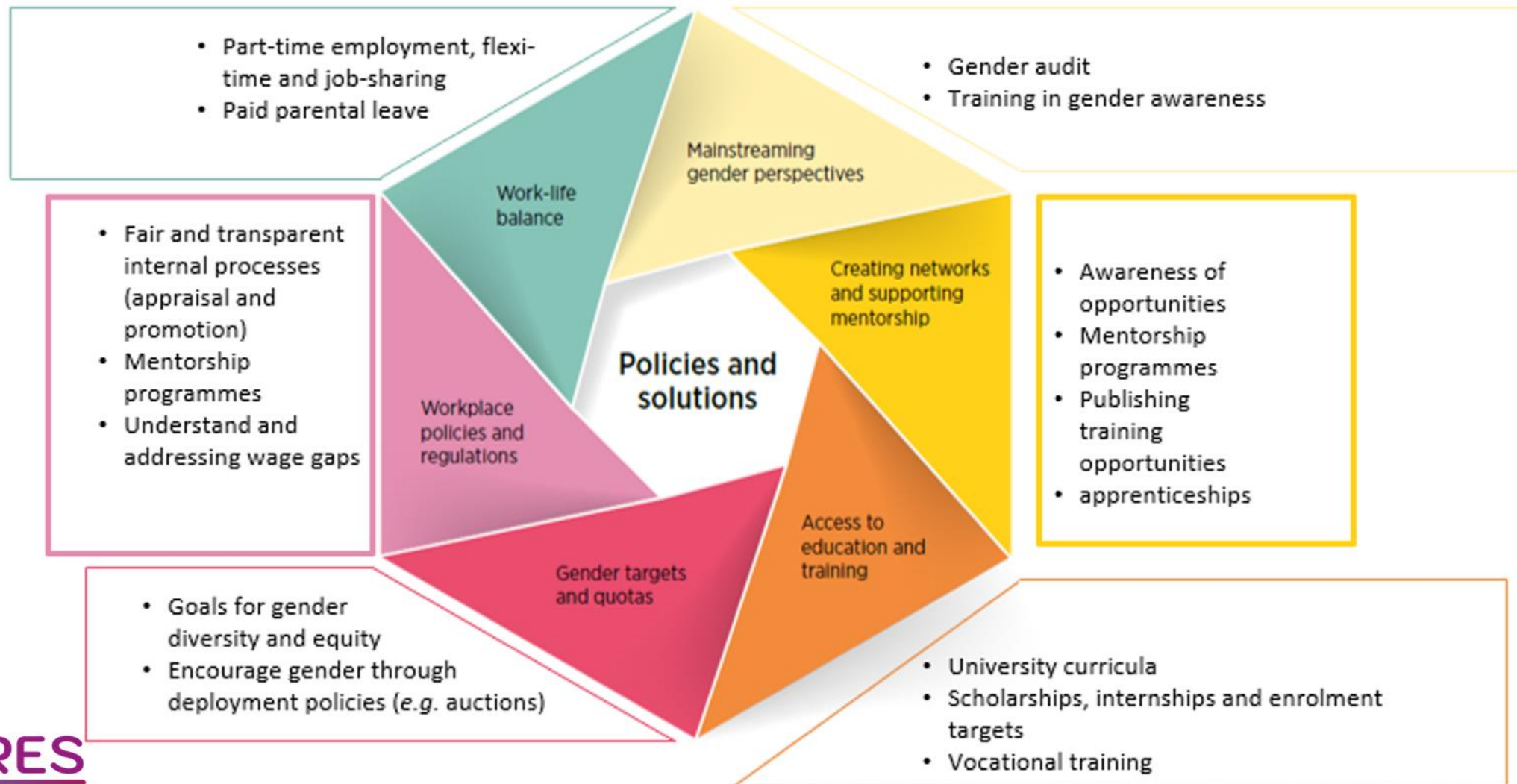
# Policies and Solutions

SOURCES:



**GWNET**

Global Women's Network  
for the Energy Transition



# The Power of Gender Equality

- Enjoyment of Women's Human Right: Women have the right to have access to employment on equal terms with men.
- Improves Global GDP:
  - Reaching Gender Equality by 2025 = USD 12 to USD 28 trillion per annum
- Companies with diverse Leadership have better results
  - Better prepared to survive financial shock
  - Improved profitability (34% - 69% higher profits)
  - Increased innovation, investment in R&D, and use of talent
  - Decreased risk and overconfidence (44% higher returns)
  - Increased action on environmental issues
  - Decreased litigation for environmental breaches
  - More stringent decarbonisation policies...

SOURCES:



**GWN**ET

Global Women's Network  
for the Energy Transition



**'When more women join the workforce, everyone benefits'** - Christine Lagarde, ECB  
President and former MD IMF

## *Needs and instruments to increase the share of women in the energy sector*

- ❑ Support for young women willing to pursue a STEM related education
- ❑ Support for women/mothers to not penalize their (early) career development
- ❑ Visibility for successful women in RHC
- ❑ Support for participation in networking events



- ❑ Coaching and mentoring programs for female entrepreneurs
- ❑ Business support, skills training, and technical support
- ❑ Communications campaigns targeted to female users
- ❑ Collection and assessment of gender disaggregated data



Thank you!

Contact us: [welcome@w4res.eu](mailto:welcome@w4res.eu)



[www.w4res.eu](http://www.w4res.eu)



[welcome@w4res.eu](mailto:welcome@w4res.eu)

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