

N a t i o n a l M e e t i n g

Rural Renewable Energy In Egypt: Leveraging The Skills Of Women For A More Rapid Growth

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UNITED NATIONS

الاستقرار
ESCWA



Chemonics Egypt
Consultants

Presentation Outline

1. **EGYPT: Employment and Education Trends**



2. **EGYPT: Renewable Energy Sector**



3. **PROJECT: Overview**



4. **PROJECT: Gender Findings**



5. **EGYPT: Gender Strategy**



6. **CONCLUSION**

PROFILING THREE WOMEN

Female Gamechangers: Reshaping the Sector

DECENTRALIZED PV SECTOR

Aya Zany

ACO

Founder

Cairo, Egypt

Supplies about 30% of
the de-centralized market



BIOGAS SECTOR

Mona el-Khodeiry

BIOGAS

Founder

Aswan, Egypt

In little over 2 years,
implemented more than
220 units in 10 provinces



BIOGAS SECTOR

Shaimaa Omar

BIOMAX

Founder

Sohag, Egypt

Established more than
500 biogas units on small
and medium scales



Participation Trends in Egypt



LABOR FORCE PARTICIPATION

FEMALE - 23%

MALE - 66.9%



UNEMPLOYMENT

FEMALE - 23%

MALE – 7.8%



Youth not in education, employment or training

FEMALE – 35%

MALE – 19.6%



STEM PARTICIPATION

Young women are underrepresented in STEM education

RENEWABLE ENERGY MARKET IN EGYPT

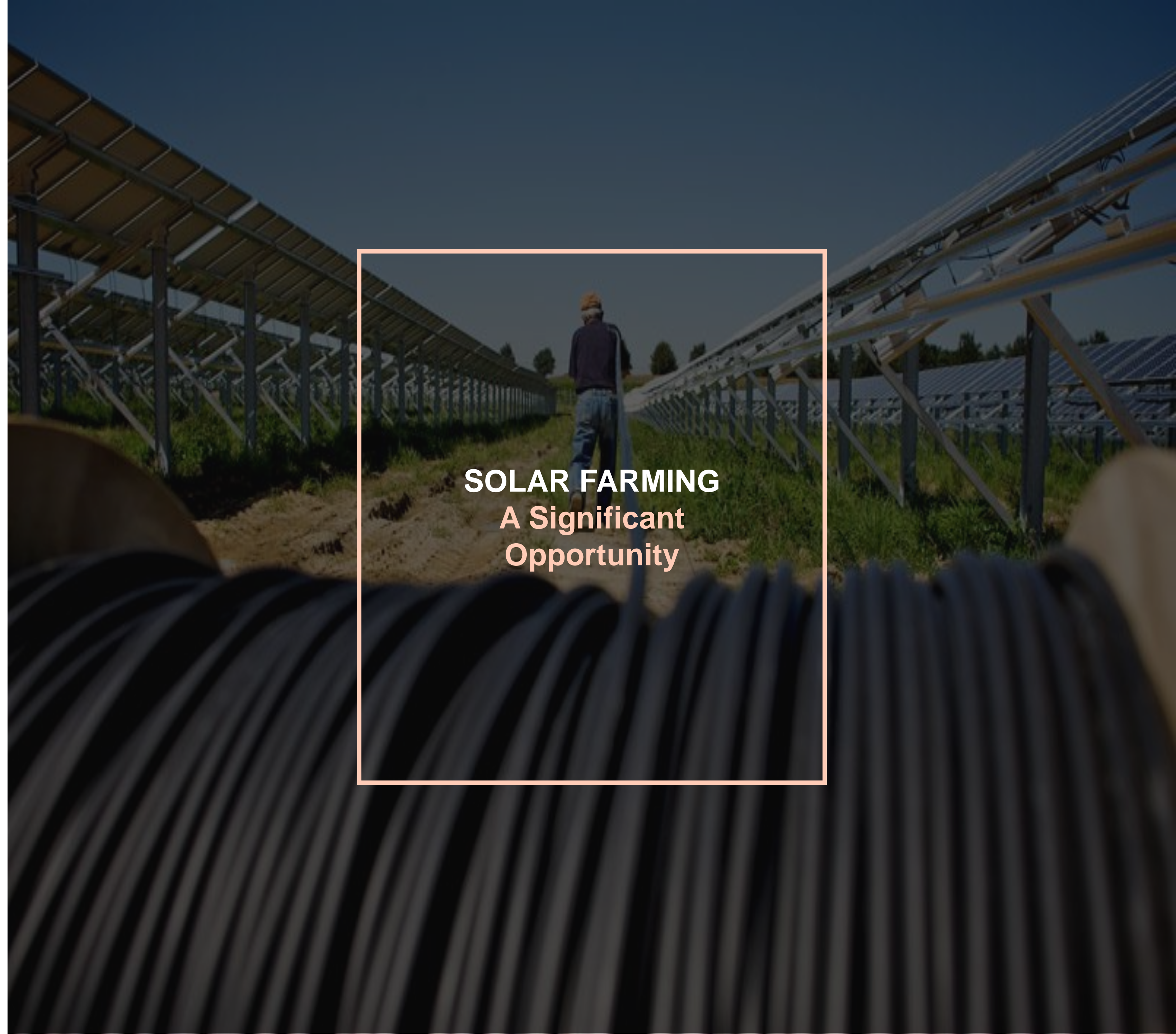
Evolution of Installed Renewable Energy Power Capacity in GW

Type of power station	2009/10	2021/22	2029/30	2034/35
Hydro	2.8	2.8	2.9	2.9
Wind	0.5	13.3	20.6	20.6
PV	0.0	3.0	22.9	31.75
CSP	0.0	0.1	4.1	8.1
TOTAL	3.3	19.2	50.5	62.6



Source: IRENA, 2018

“...off-grid
application of Solar
in agriculture is a
significant
opportunity,
amounting to nearly
2000 MW in
photovoltaic (PV),
approximately \$4
billion in
investment.”



SOLAR FARMING
A Significant
Opportunity

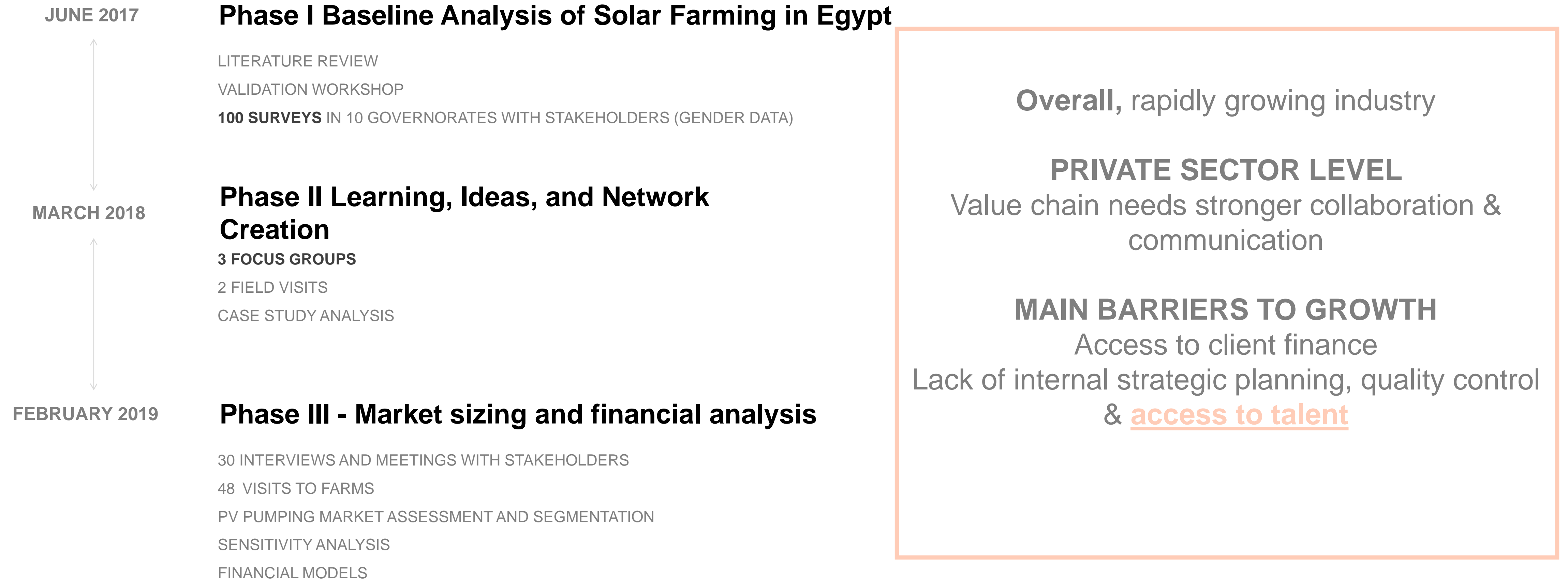
PROJECT OVERVIEW

Unlock the potential for clean technology start-ups within the agricultural sector in Egypt

- ▶ Strengthen the ecosystem supporting the clean technology sector
- ▶ Identify key challenges and barriers across the value chain
- ▶ Connect key stakeholders across the value chain



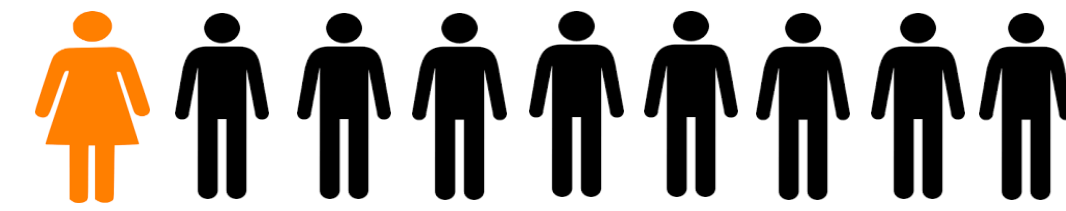
PROJECT METHODOLOGY & OUTCOMES



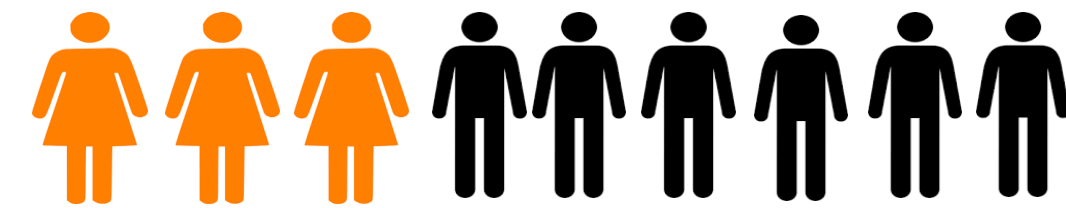


Female Founders in the Renewable Energy Sector

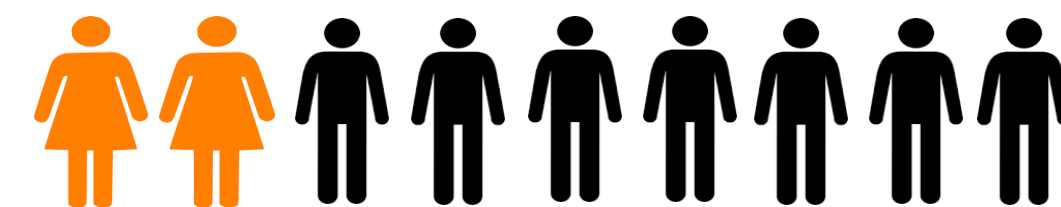
PV SECTOR
12% of founders are FEMALE



BIOGAS SECTOR
30% of founders are FEMALE

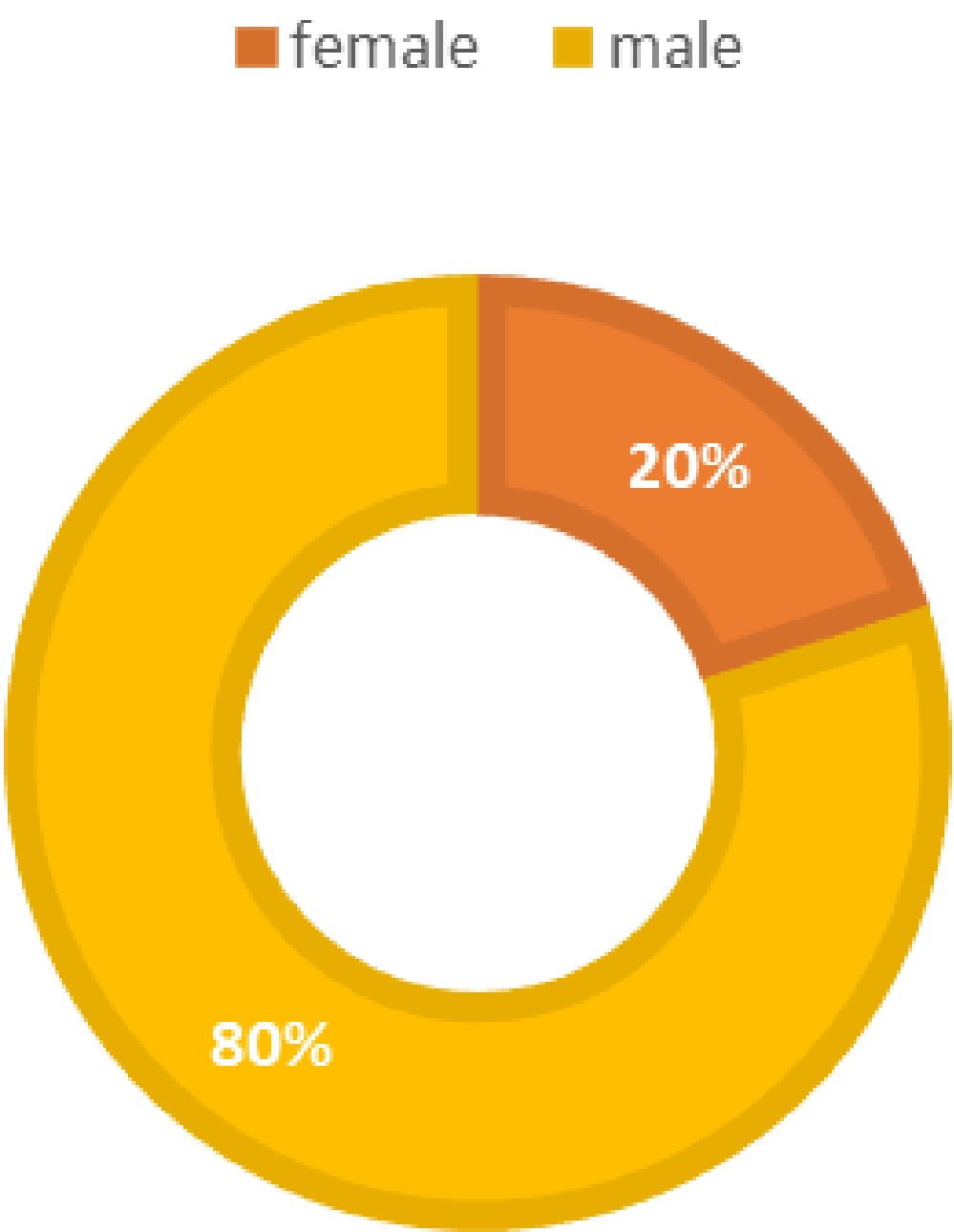


NATIONAL AVERAGE IN PRIVATE SECTOR
17% of founders are FEMALE

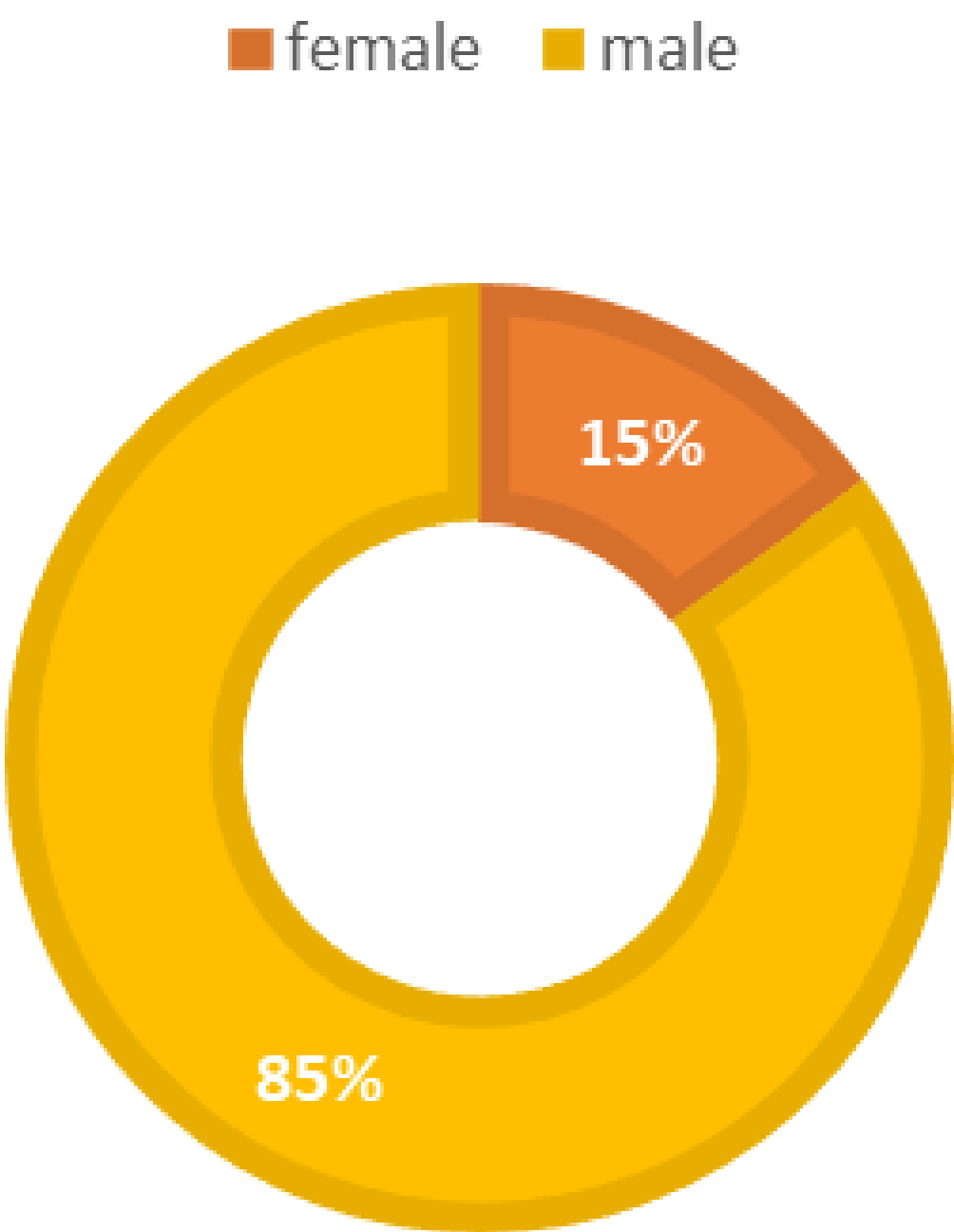


Female Employment Opportunities in the Renewable Energy Sector in Egypt

EMPLOYMENT IN PV



EMPLOYMENT IN WASTE-TO-ENERGY

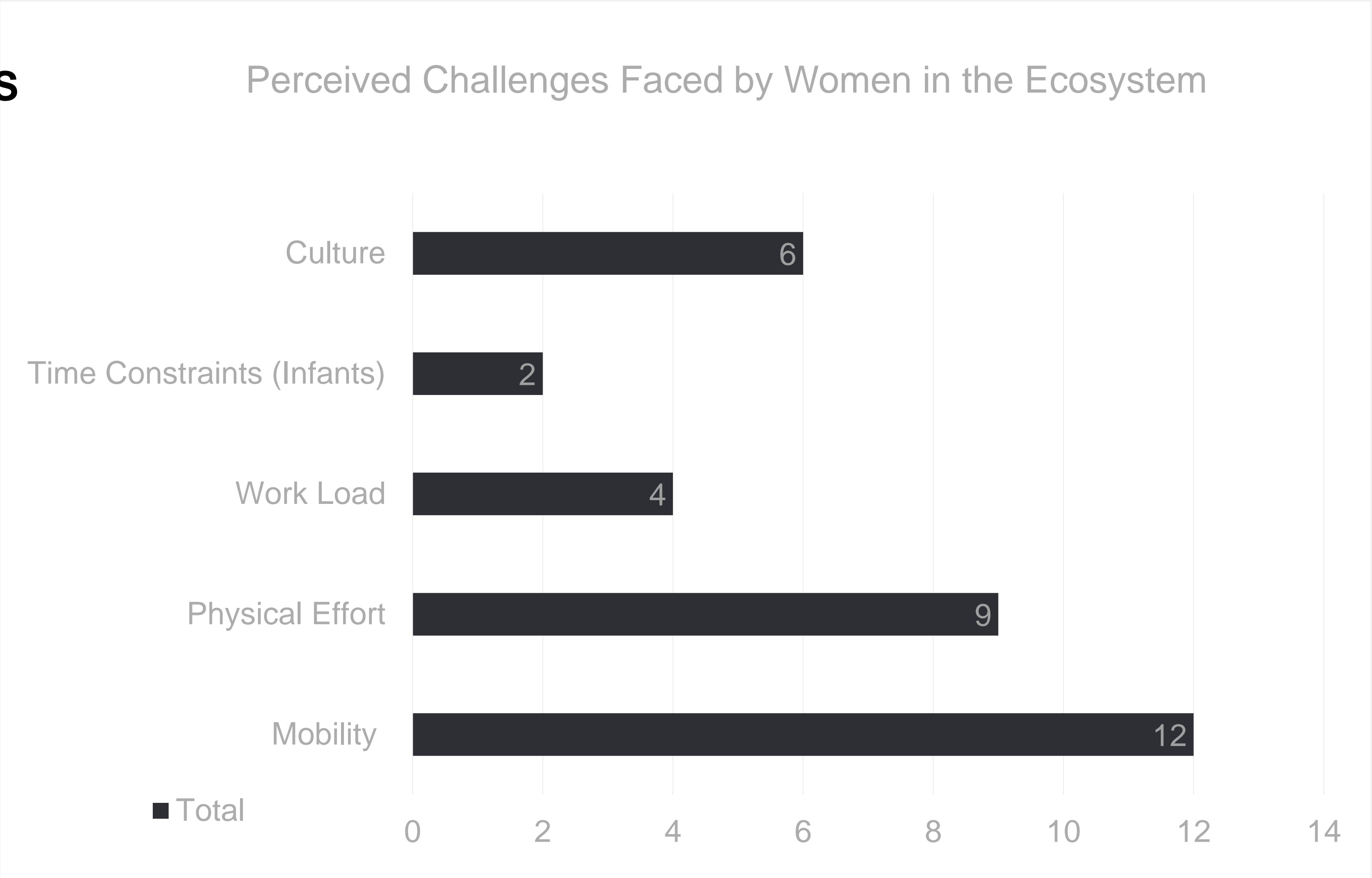


Source: IFC, 2018; CAPMAS, 2016 in Egypt Oil & Gas News Paper; Mahinaz Elbaz, 2018

INTERVIEW GENDER FINDINGS

Gender and Renewable Energy

20 INTERVIEW PARTICIPANTS
16 MALE FOUNDERS
4 FEMALE FOUNDERS



FOCUS GROUP FINDINGS

Gender and Renewable Energy

3 PARTICIPANTS

1 MALE

2 FEMALES

Safety

Family

Culture

Women's Strategy 2030

GOVERNMENT STRATEGY

BY 2030



BY 2030

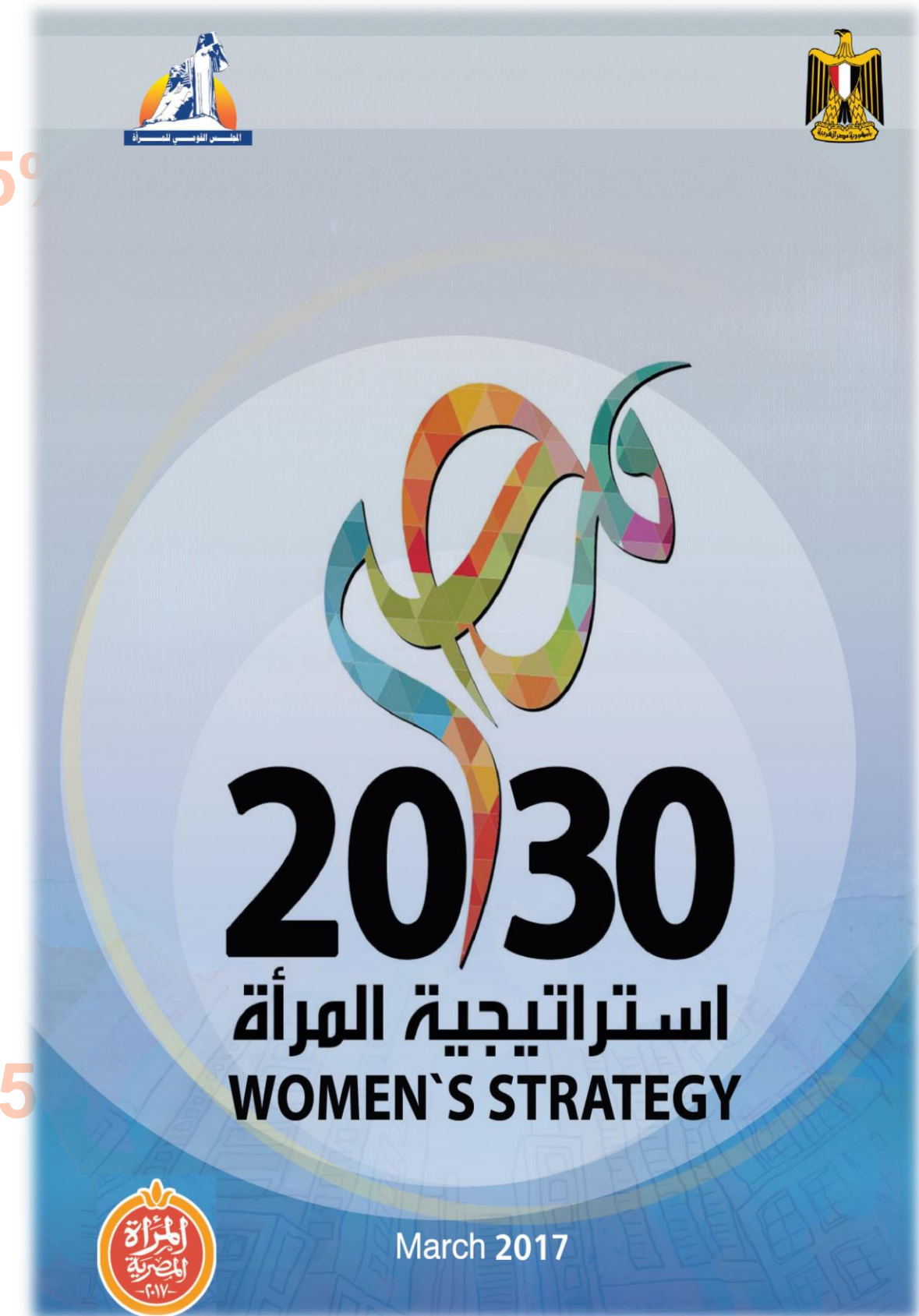


BY 2030

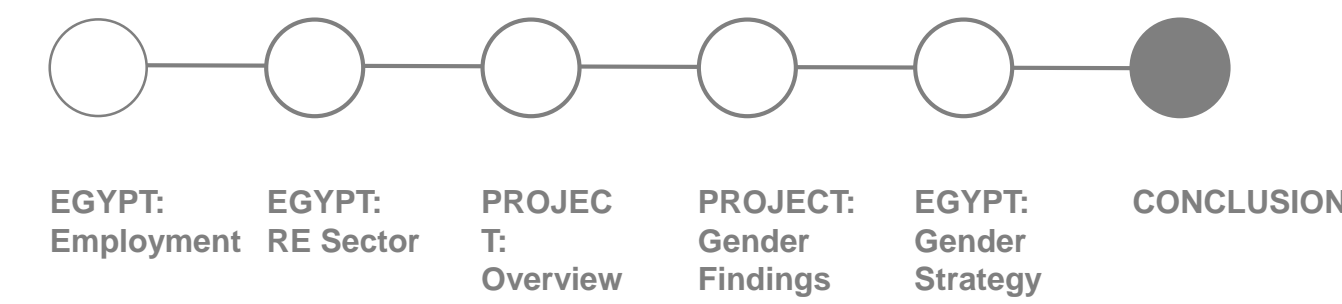
Women's participation in the workforce **will reach 35%**

Women's unemployment rate **will decrease to 16%**

Estimated earned income **will increase from 29% to 50%**



GAPS AND NEXT STEPS



1. CHALLENGES AND BARRIERS
2. IDENTIFY GAPS ACROSS VALUE CHAIN
3. IDENTIFY SHORTCOMINGS IN STEM
4. LARGE-SCALE SECTOR

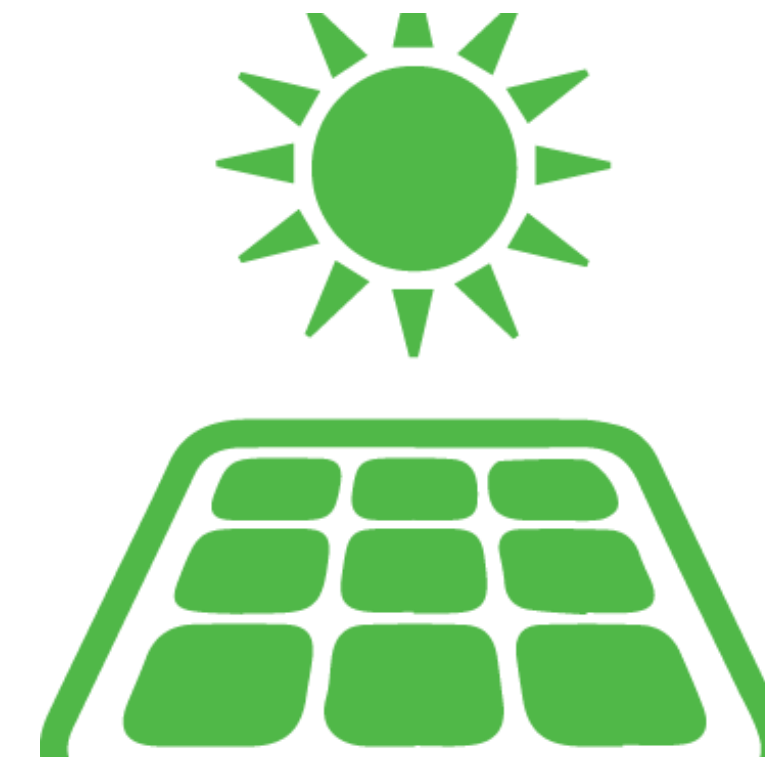
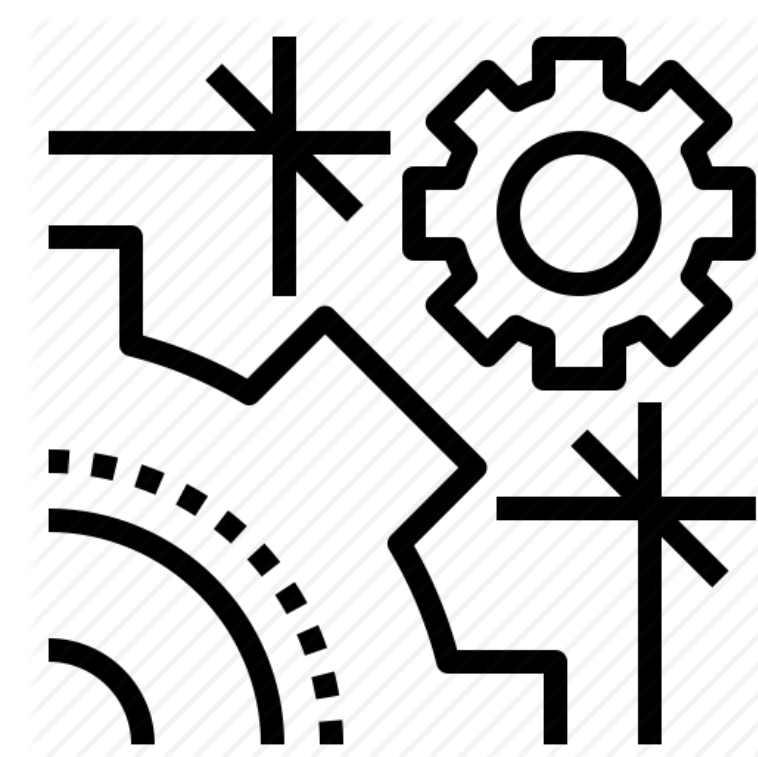
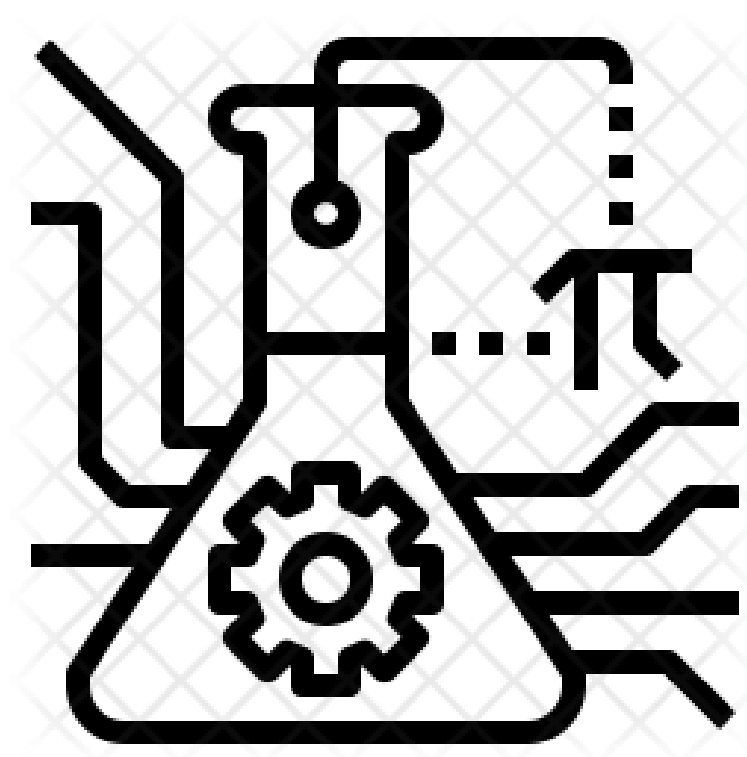
Female Gamechangers: Reshaping the Sector

DECENTRALIZED PV SECTOR
Aya Zanaty

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THANK YOU

