





Distr.
LIMITED
E/ESCWA/CL1.CSS/2023/WG.1/L.1
1 March 2023
ORIGINAL: ENGLISH

Economic and Social Commission for Western Asia (ESCWA), the League of Arab States and the United Nations Environment Programme (UNEP)

Consultative Meeting on the Environmental Dimension of the Sustainable Development Agenda: "Solutions and Action for SDGs implementation amid the triple planetary crisis"

Beirut, 2 March 2023







Outline

- ATMP Approach
- RCREEE's Niche Expertise
- ATMP Components
- ATMP Activities





































RCREEE

ATMP: Active Turbine Management Program

The Regional Center for Renewable Energy and Energy Efficiency (RCREEE), Egyptian Electricity Transmission Company (EETC), Egyptian Environmental Affairs Agency (EEAA) and New and Renewable Energy Authority (NREA) have signed on 15th of December 2015 a Protocol titled "Executive Framework for Strategic Cumulative Environmental and Social Impact Assessment (SESA) & Program of Ornithological Monitoring and Active Turbine Management Program (ATMP) for Wind Energy Developments in the Gulf of Suez".











Active Turbine Management Program

Innovative Strategic Framework - Egypt Z'TOYOTA TSUSHO Eurus Energy alfanar construction TCWA POWER GDF SVCZ desert technologies Consulting **LAHMEYER** ecoda **TERNATIONAL RCREEE** Eco Con Ser V **FICHTNER ATMP** International Finance Corporation WORLD BANK GROUP European Bank NEXI Investment BANK FOR INTERNATIONAL environment The tollers. COOPERATION **United Nations** INTERNATIONAL **Environment Programme** 三井住友銀行 SOCIETE **SMBC**

























RCREEE's Niche Expertise

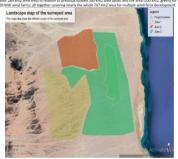
SESA and Proposal for 5-yrs BMP

Site-Specific ESIAs











Roadmap of ATMP Activities

Analysis and Assessment of the **Potential Risks and** Impacts on habitats and the **Biodiversity**

Analytical Study for Optimal Design of BMP, SOD-Program and FMP

Under-, Post-**Construction Bird** Monitoring Program (BMP)

Post-Construction Bird and Bat Fatality Monitoring Program (FMP)

Post-Construction Shutdown On-**Demand Program**







































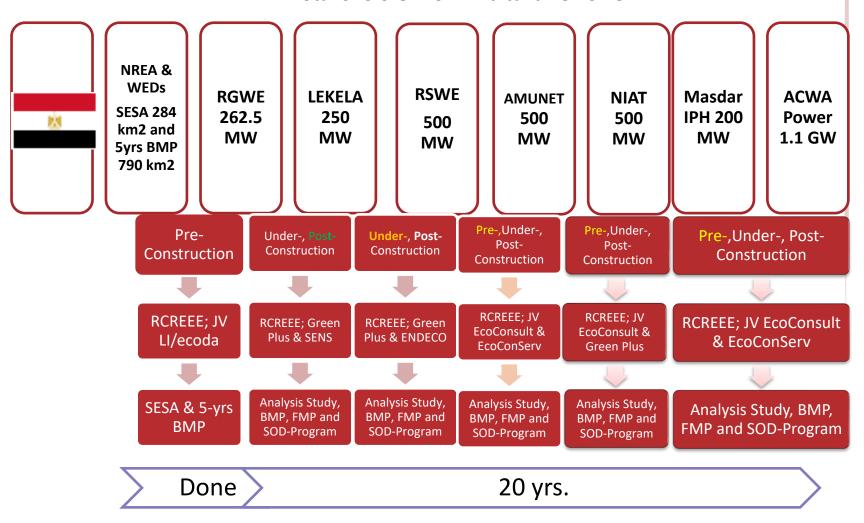






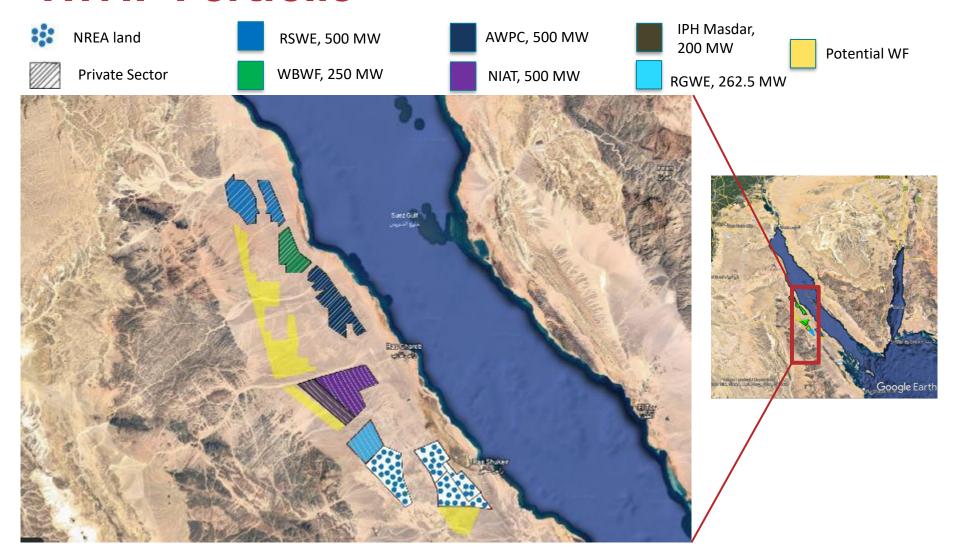
ATMP Portfolio

Total of 3.3 GW of wind turbine Power





ATMP Portfolio





ATMP Components

Environmental and Social Requirements

Landscape and Visual

Land Use

Geology, Hydrology, Hydrogeology

Biodiversity

Birds

Archaeology and Cultural Heritage

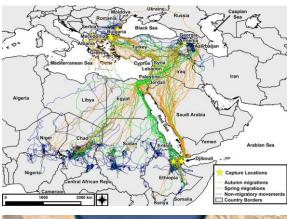
Air Quality and Noise

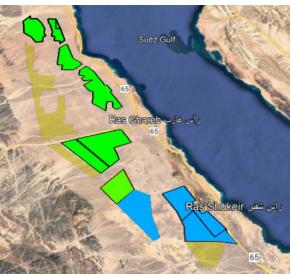
Infrastructure and Utilities

Occupational H&S

Public Health and Safety

Socio-economics





























ATMP Main Components

Under-, and Post-Construction Bird Monitoring Program (BMP)

Bird and Bat Fatality Monitoring Program (FMP)

Shutdown On-Demand & Predictive Fixed Shutdown Programs (SOD-, PSD-Programs)



















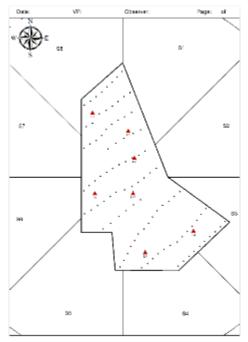


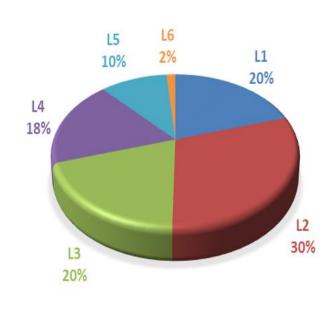




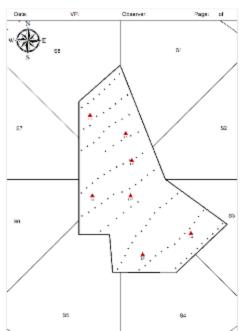


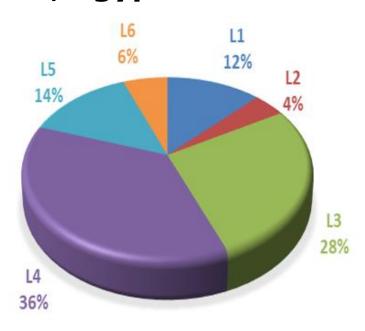
Autumn 2021 at WBWF, GoS, Egypt (250 MW/ 96 turbines)





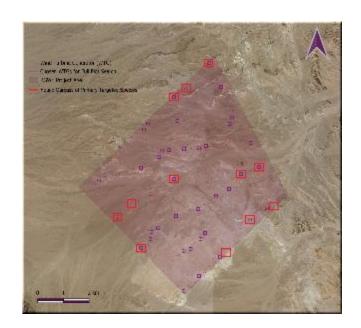
Study area			Windfarm			Outside		
Records	Birds	Species	Records	Birds	Species	Records	Birds	Species
1041	19420	20	820	15541	20	221	3879	10





Study area			Windfarm			Outside		
Records	Birds	Species	Records	Birds	Species	Records	Birds	Species
3359	85607	28	2782	49646	27	577	35961	19

Bird & Bat Fatality Monitoring Program

































ATMP Portfolio

Bird & Bat Fatality Monitoring

START

Sending order Location circle

NO

Send Location

Evaluate

END

Analysis

Create the report

YES















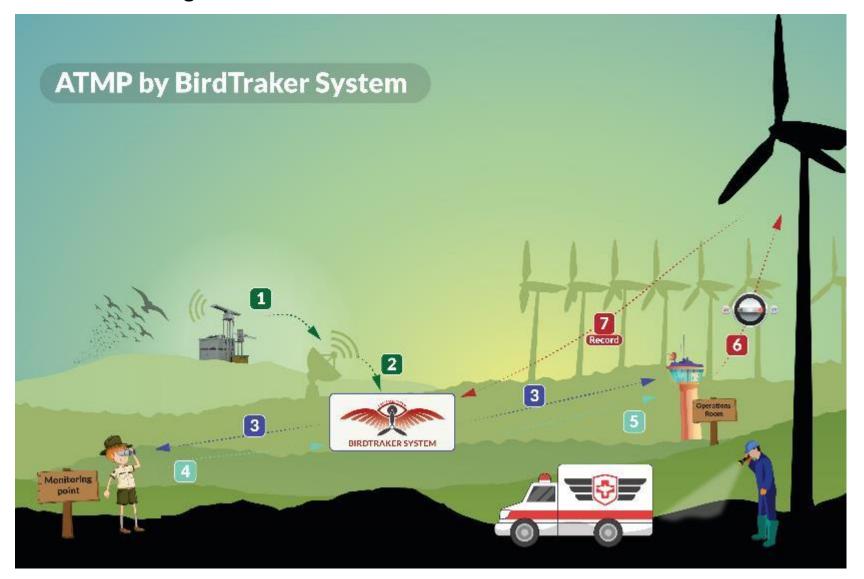
Intelligent tracking system



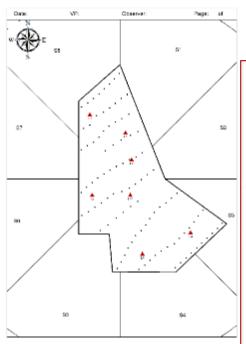


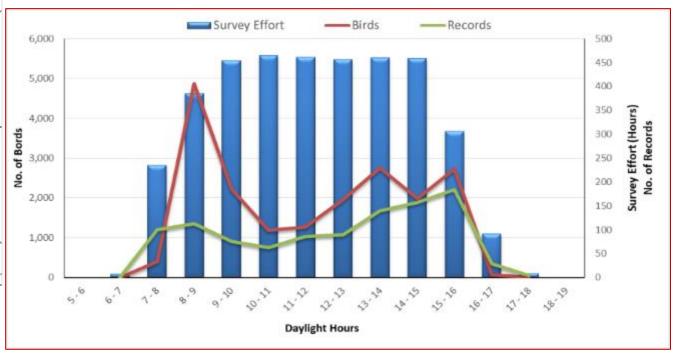


BMP & SOD-Program























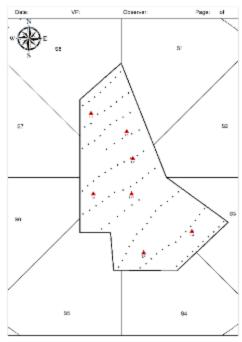




























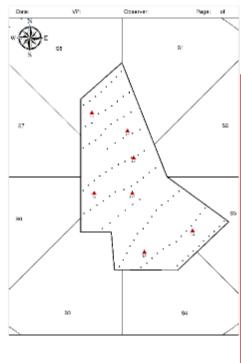


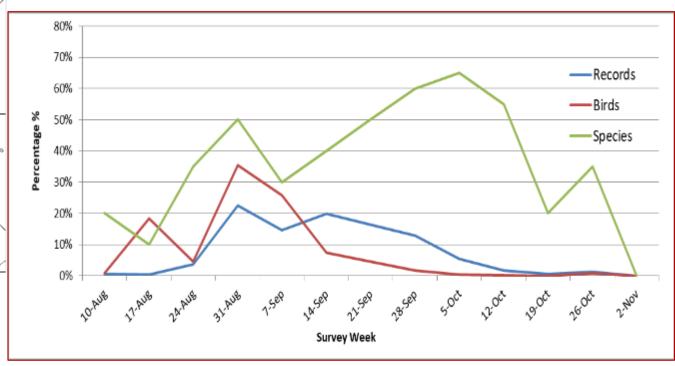
























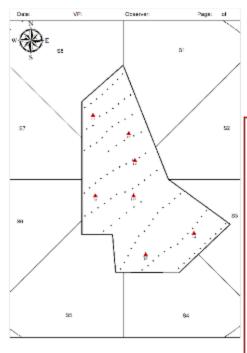


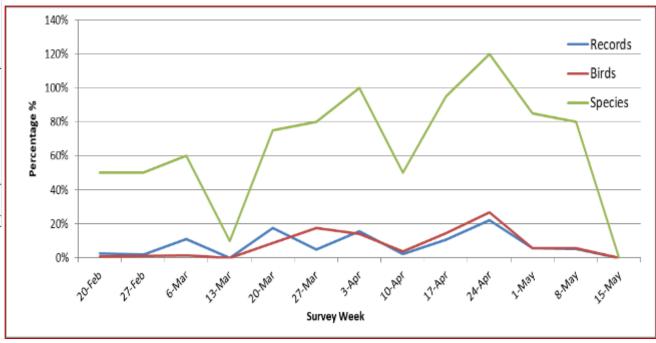






















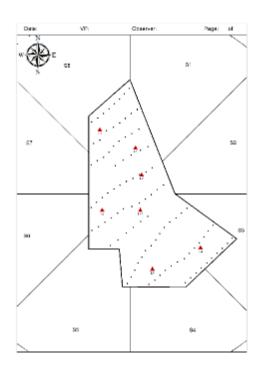


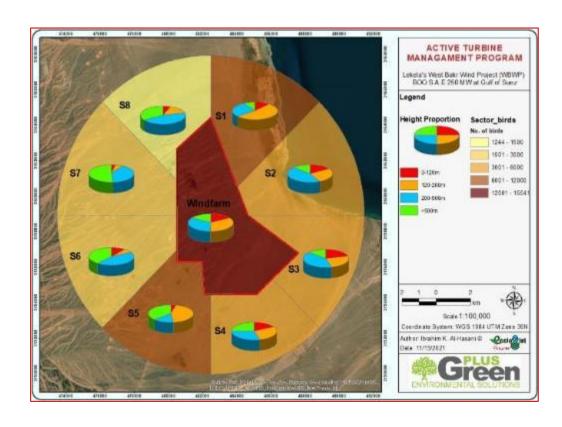




























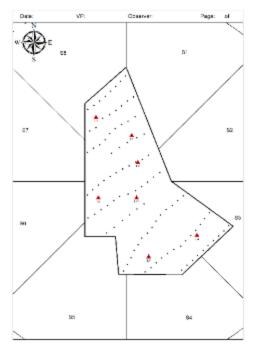


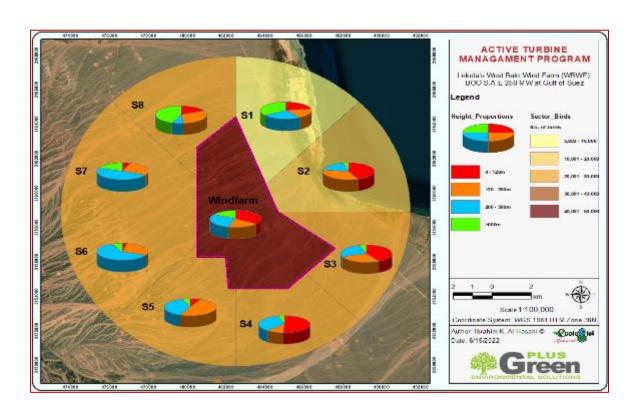




























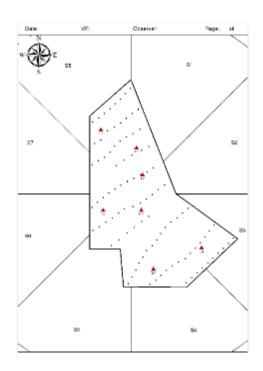


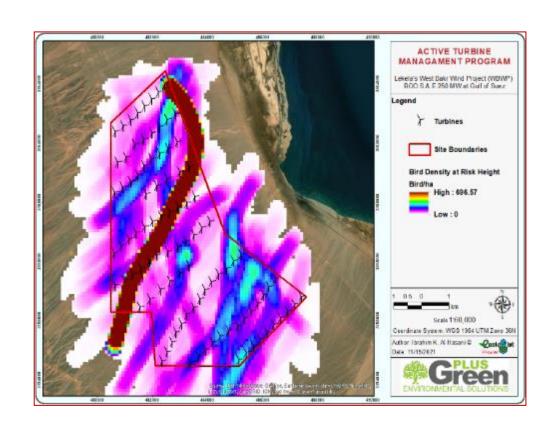






























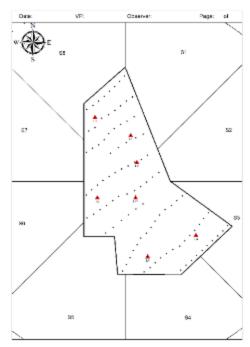


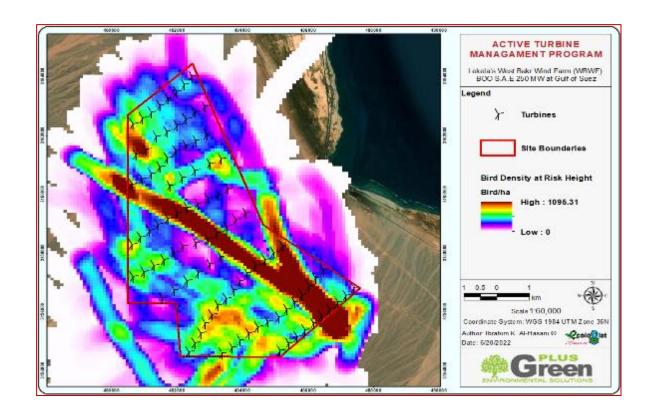
























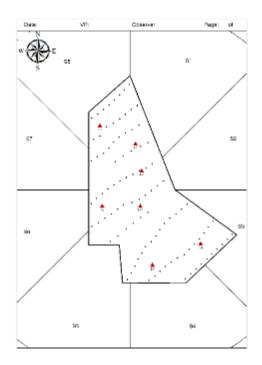


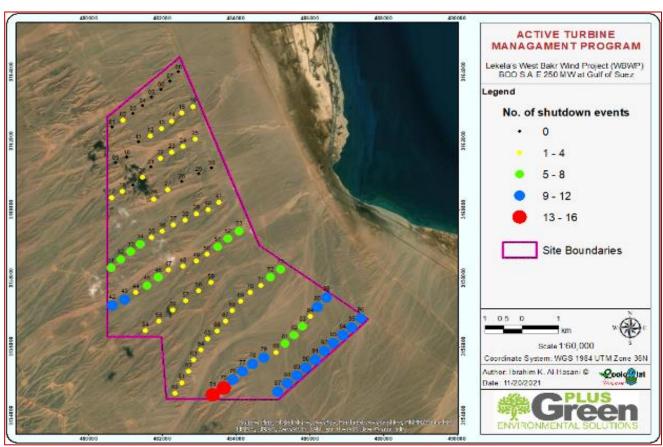




























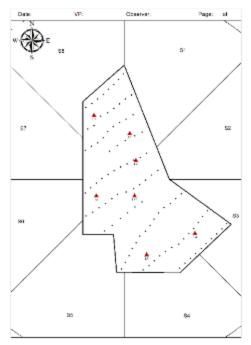


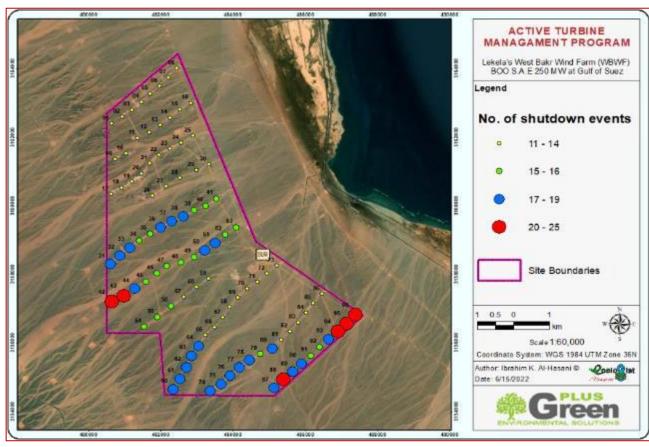




























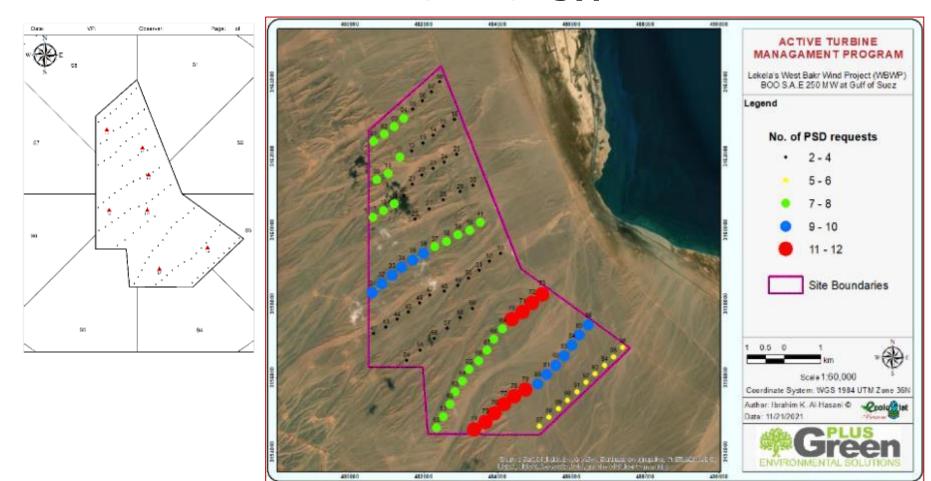






























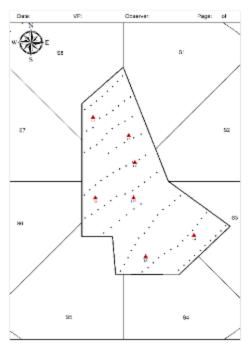


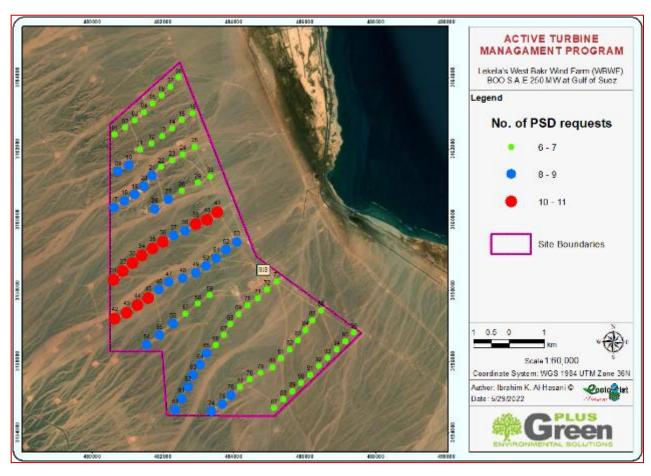




























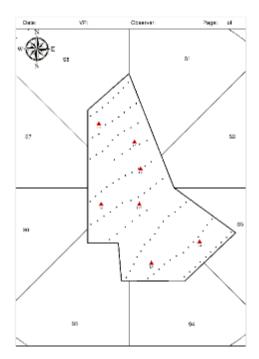


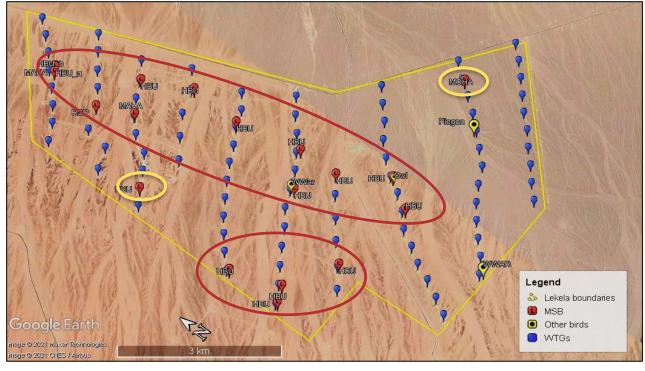


























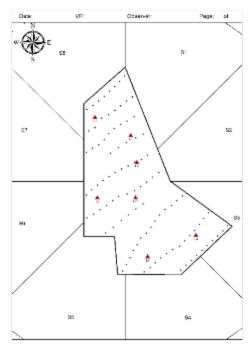


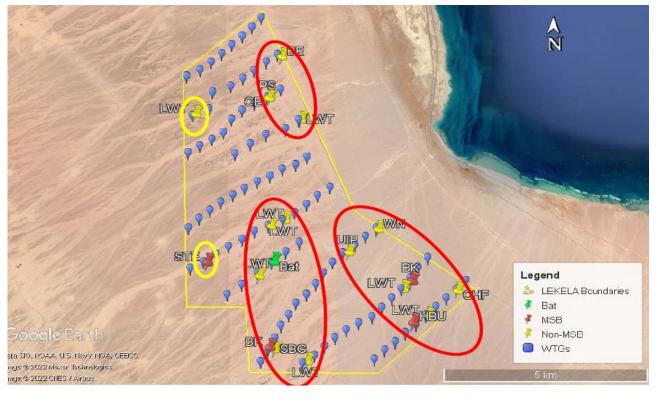












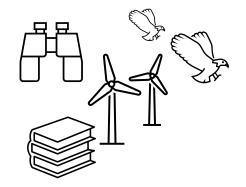


ATMP Training and Capacity Building Activities

throughout the application of ATMP program, RCREEE committed to train 200 young professionals on bird monitoring and observing in wind farms

35% of the females involved in the process

ATMP Management Team has both genders working together for the program success























RCREEE Proud To Be The First Center in the Region to Train Women on Bird Observing in Wind Farms and to Be Core Part Of The Program Implementation









Thank you for your attention



Dr. Jauad El Kharraz Executive Director

Regional Center for Renewable Energy and Energy Efficiency (RCREEE)

Hydro Power Building (7th Floor) Block 11 - Piece 15, Melsa District Ard El Golf, Nasr City, Cairo, Egypt





Regional Center for Renewable Energy and Energy Efficiency المركز الإقليمي للطاقة المتجددة وكفاءة الطاقة