



RENEWABLE ENERGY SOLUTIONS
FOR THE MEDITERRANEAN

RES4MED **Renewable Energy Solutions for the Mediterranean**

*Building a bridge for public - private efforts for deploying renewables
in the Mediterranean region and Africa*

26 May 2016

- 1. Association profile**
 - 2. RES4MED operational model**
 - 3. RES4MED – Mediterranean - Strategic activities 2016**
 - 4. RES4MED – RES4Africa - Strategic project**
- Annex – RES4MED membership (details)**

1. Association profile

Renewable Energy Solutions for the Mediterranean is a not for profit association created in 2012 with the mission **to contribute to the deployment of renewable energies**, both large scale and distributed energy, facilitating their integration in domestic and regional markets **to satisfy local energy needs**

Strategy

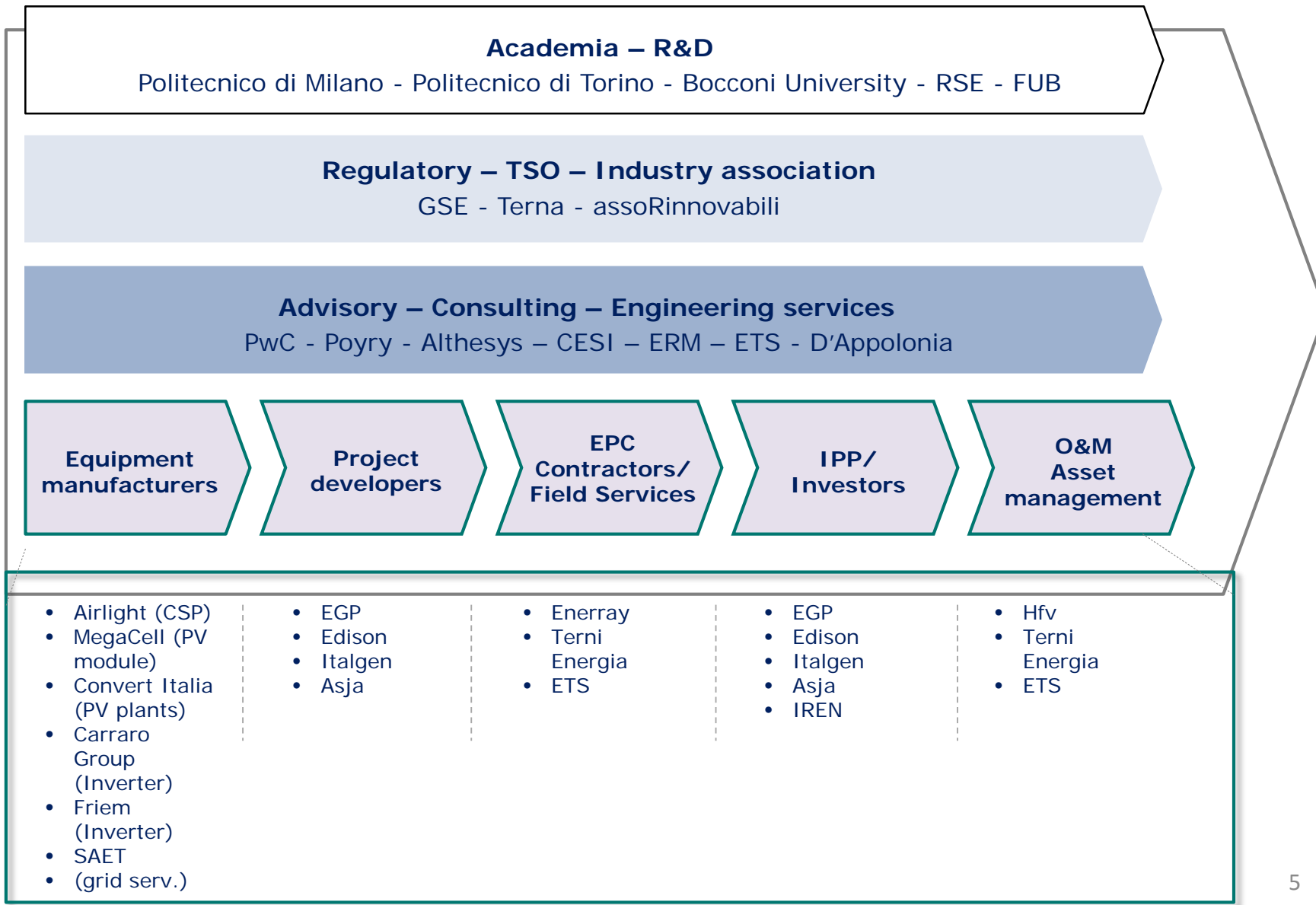
- **Platform for public-private dialogue** on renewable energy issues in the Mediterranean in light of the partnerships with selected international stakeholders
- **Advisor and facilitator** to regional institutions, local Governments and regulatory bodies
- **Awareness and institutional advocacy** through dialogue with Southern and Eastern Mediterranean countries (SEMCs) governments and regulators
- **Capacity building and training**, disseminating best-practices and procedures on RES regulation, policies, standardization, operation

Membership

- Network of leading **utilities, industries, TSO, agencies, technical service providers and academia**, actively engaged in the Southern and Eastern Mediterranean Countries (SEMCs)
- **Involvement of financial actors within a Stakeholders Committee** aiming at providing advice, sharing analysis, market intelligence

RES4MED membership snapshot

Members' core business in the value chain



RES4MED members and partners



RES4MED CORE MEMBERS



SOUTHERN MED PARTNERS



REGIONAL NETWORK



Policy and regulation

- Engagement with regional institutions and national stakeholders to assess **mitigation measures to de-risk investments**
- Organization of high level dialogue conferences and country specific workshops, **"RES4MED Days"**, to strengthen institutional relations and investment friendly framework

Training and capacity building

- **Advanced Training Course "Integration of renewable energy sources in the Mediterranean electricity markets"**
II Edition
- **Training Course "Enhancing energy efficiency solutions in the Mediterranean"**
to disseminate best practices and applications
I Edition

Business models and financing

- **Survey on investment risks in renewable energy** in Southern and Eastern Mediterranean Countries (SEMCs)
- Enhancing **public-private dialogue** by promoting supporting activities on **innovative business models and financing**, disseminating the best practices in the region

Socio-economic benefits

- Supporting the analysis on **socio-economic benefits of RE investments**
- **Evaluation of RE impacts along the value chain** in economic and social terms as guidance policy makers, local stakeholders and institutions

RES4MED Association

Main success stories in 2013/2016

✓ RES4MED's Annual Conference

Cycle high-level annual conferences dedicated to specific items or key markets

2016 - Enhancing investments for clean tech solutions, beyond MENA towards Africa

2015 - Delivering Renewable Energy Investments in Egypt

2014 - Delivering Renewable Energy Investments in Morocco

2013 - RE solutions within the Med electricity market

✓ RES4MED Day

One-day workshop fostering the dialogue between key local stakeholders and RES4MED members

2016 - RES4MED Day Morocco

2015 - RES4MED Day Egypt

2014 - RES4MED Day Morocco

✓ Training initiatives

- ✓ **Advanced Training Course "Integration of renewable energy sources in the Mediterranean electricity markets"** for professionals from Med countries, from RES4MED members and Ph.D. students (2015 Edition: - 53 middle manager; 2014 Edition: 35 middle manager)

- ✓ **Training Course "Enhancing energy efficiency solutions in the Mediterranean Region"** for professionals from Med and Balkan countries, from RES4MED members and Ph.D. students (1st edition – 2016: 33 middle manager)

✓ International relations

2016 - signed MoU with SIE (Morocco), STEG RE (Tunisia)

2015 - signed MoU with Sonelgaz

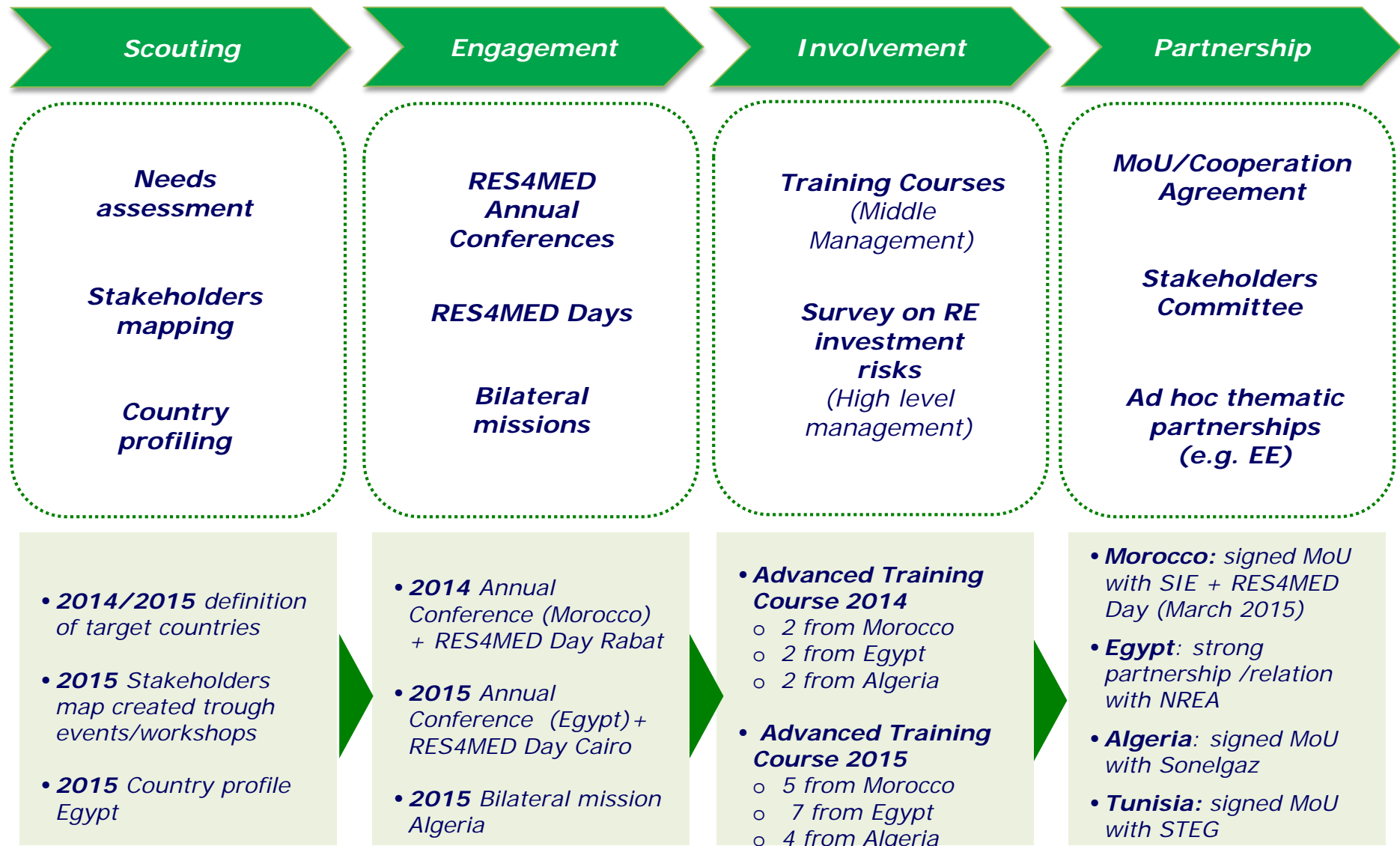
2014 - Strong cooperation with MEDREG, MEDTSO, UfM, IRENA, OME

2014 /2013 - 3 signed MoU with regional associations (RCREEE, OME, MEDREC)

2. RES4MED operational model

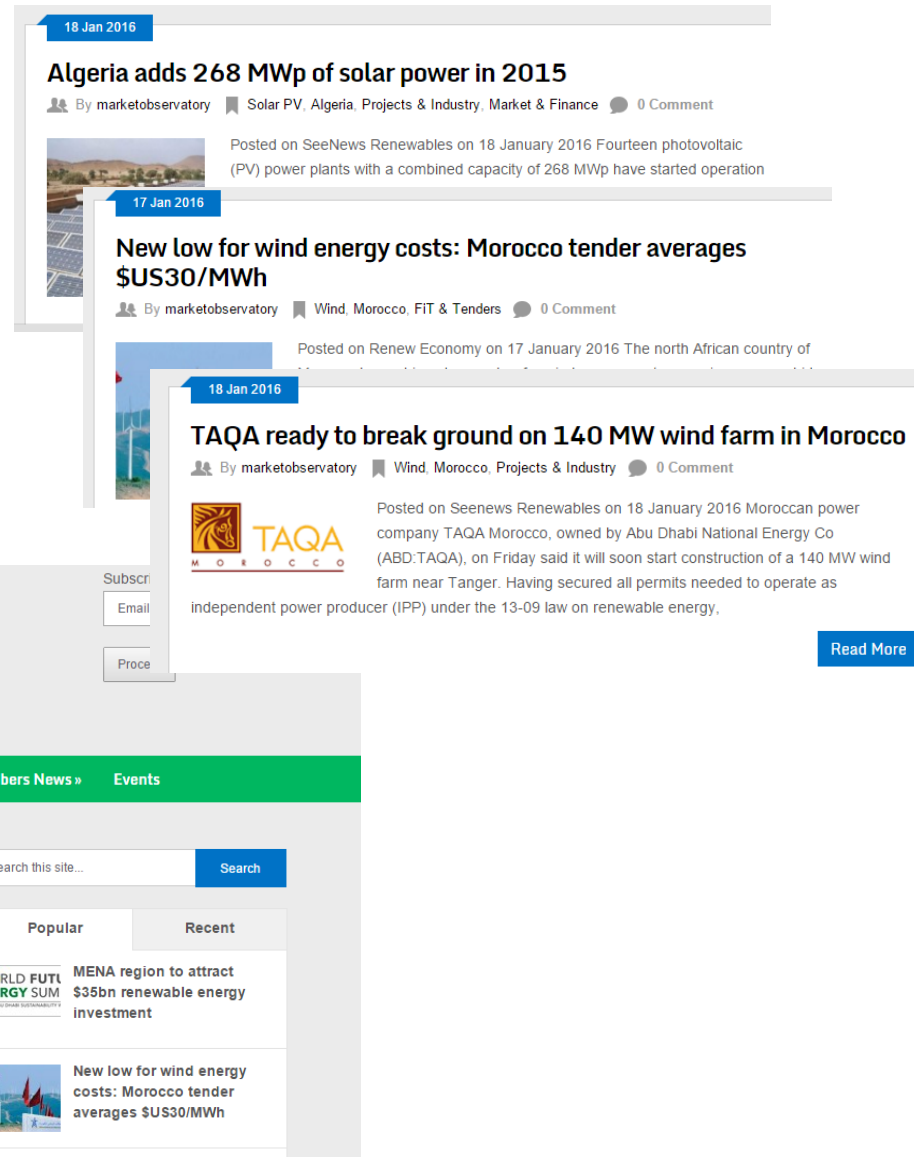
Operational model RES4MED

Effectiveness in the Mediterranean



Market Observatory

- Forum where to find **the most up-to-date and relevant news** about RE and EE in the Southern and Eastern Mediterranean markets
- **Monitoring information** and filtering it accordingly, collecting only contents that really matter to companies and presenting it in an easy and accessible manner.
- **News and articles are uploaded on a daily basis**, depending on the level of activity on a given day ensuring that the general structure and quality of the information remains intact through regular reviews



18 Jan 2016

Algeria adds 268 MWp of solar power in 2015

By marketobservatory | Solar PV, Algeria, Projects & Industry, Market & Finance | 0 Comment

Posted on SeeNews Renewables on 18 January 2016 Fourteen photovoltaic (PV) power plants with a combined capacity of 268 MWp have started operation

17 Jan 2016

New low for wind energy costs: Morocco tender averages \$US30/MWh

By marketobservatory | Wind, Morocco, FIT & Tenders | 0 Comment

Posted on Renew Economy on 17 January 2016 The north African country of

18 Jan 2016

TAQA ready to break ground on 140 MW wind farm in Morocco

By marketobservatory | Wind, Morocco, Projects & Industry | 0 Comment

Posted on Seenews Renewables on 18 January 2016 Moroccan power company TAQA Morocco, owned by Abu Dhabi National Energy Co (ABD:TAQA), on Friday said it will soon start construction of a 140 MW wind farm near Tanger. Having secured all permits needed to operate as independent power producer (IPP) under the 13-09 law on renewable energy,

12 May 2016

Morocco Ranks 14 in Renewable Energy Country Attractiveness Index

By marketobservatory | Solar PV, Solar CSP, Morocco | 0 Comments

Posted on Morocco World Newst on 11 May 2016 A report by the UK audit and professional services firm Ernst & Young released on Tuesday revealed that Morocco's renewable energy markets are becoming increasingly attractive for investors, while some European markets are currently facing potential hurdles that could threaten their current high ranking statuses. In the most recent

Search this site... **Search**

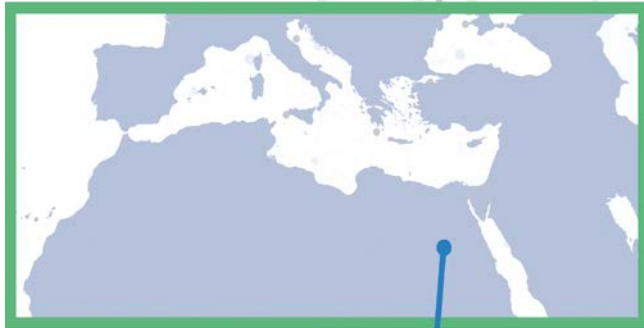
Popular **Recent**

WORLD FUTURE ENERGY SUMMIT MENA region to attract \$35bn renewable energy investment

New low for wind energy costs: Morocco tender averages \$US30/MWh

Country profiling

**RES4
MED** Country
Profiles
RENEWABLE ENERGY SOLUTIONS
FOR THE MEDITERRANEAN



Egypt

November
2015

**RES4
MED** Country
Profiles
RENEWABLE ENERGY SOLUTIONS
FOR THE MEDITERRANEAN



Morocco

April
2016

***Tunisia
Jordan
Algeria
to come***

Local High level conferences and Italian events



One-day local workshop fostering the dialogue between local stakeholders and RES4MED's members to generate a deeper understanding of local needs and propose a set of solutions to match them.



Morocco, Rabat (Sept 2014)/(Mar 2016)



Egypt, Cairo (Sept 2015)



**Conference
(May 2014)**



**Conference
(Apr 2015)**



**Conference
(May 2016)**



Survey 2016 on the main risks to RE investments (1/2)



14%
*Financial
players*

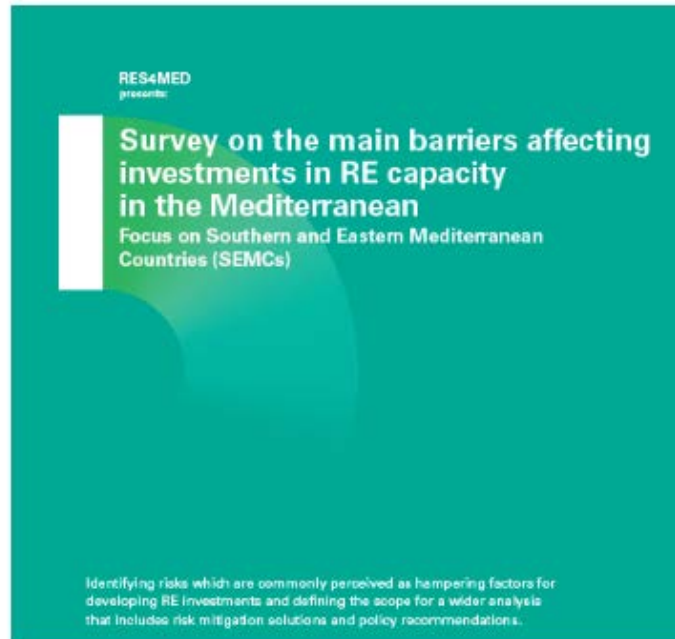
43%
*Industrial
players*

43%
*Professional
Services*

Why a Survey on Derisking Investment in Mediterranean

- RES4MED's activity has been focusing on observing RE policy making in the Mediterranean countries, establishing cooperative relationships across the Mediterranean
- In recent months, we realized we have been **missing the "voice of the investors"** and their **view of the investment environment** in these Countries
- The Survey had the following objectives:
 - to gather **investors' viewpoint** on RE investment climate in the region
 - to sound out their **perception about existing barriers/enablers** to RE investments
 - to present **unbiased results**, analytically
 - to use results for **facilitating a discussion**
 - to reduce the distance between **investors' perception and the latest developments of RE policies** in the Mediterranean countries

Survey 2016 on the main risks to RE investments (2/2)



RES4MED Working Group led by PWC
2016 edition

We asked a selected number of high level investment decision makers to **respond according to their knowledge and experience in the Countries they know best** as an **indicator** about where respondents are in their **investment journey** across the Med countries, at least so far and in relation with the surveyed panel



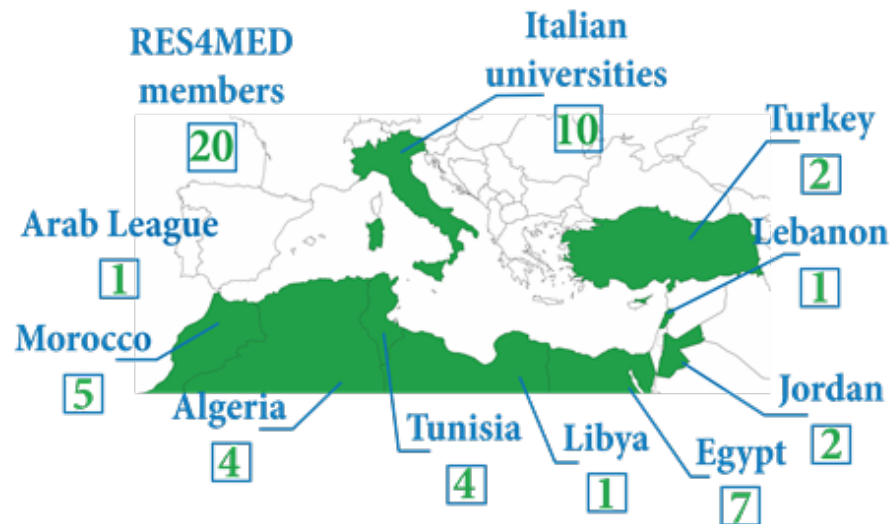
Survey results have been presented during the [RES4MED Annual conference, held in Rome on 19th of May 2016.](#)

Advanced Training Course (ATC) - 2015

- Aim is to create a **network of skilled people** and to strengthen the dialogue between public and private sector
- Integration between **academia and industry point of view**
- Not only frontal lessons but **site visits to Italian power plants/laboratories**
- Creation of a **Community platform** for facilitating networking
- Openness and **sharing of materials** and openness of materials



23 Nov - General trends in the world energy field and the role of renewables (Paolo Frankl)



PV power plant – Asja

Energy Efficiency Training Course

RES4MED organizes the third edition of the **Advanced Training Course on “Renewable Energy Solutions”** on **November, Monday 7th – Friday 18th**

Organization

- Financed by Enel Foundation; Res4Med in charge of Project Management while PoliMi contributes by providing lecturers, facilities and logistics
- Lectures on technical, regulatory and financial features by qualified experts, academics and highly skilled technicians, matched with visits to innovative laboratories and power plants

Objectives

- Provide participants with technical, economical and regulatory tools to assess the most appropriate solutions in different energy contexts for an efficient and effective integration of renewables in the electricity market
- Favoring the setting up of an international network of experts.

Target audience

The target audience consists of 50 professionals:

- 25 professionals from Southern and Eastern Mediterranean countries – *full scholarship*
- 5 professionals from Sub-Saharan African countries – *full scholarship*
- 10 professionals from RES4MED members – *free tuition fee*
- 10 Ph.D. students and Researchers from Italian Universities – *free tuition fee*

Bilateral and regional partnerships

***PARTNERSHIPS** with local Companies / Agencies*



***Multilateral partnerships** with organizations based in SEMCs*



المكتب الوطني للكهرباء و الماء الصالح للشرب
Office National de l'Electricité et de l'Eau Potable

Branche Electricité



Union for the Mediterranean
Union pour la Méditerranée
الإتحاد من أجل المتوسط



Study on “Integration of RE generation in the national electric system of Algeria”

The study, ongoing, is performed by RES4MED, CESI, EnelGreenPower experts, in dialogue with Sonelgaz and CREG

Objective

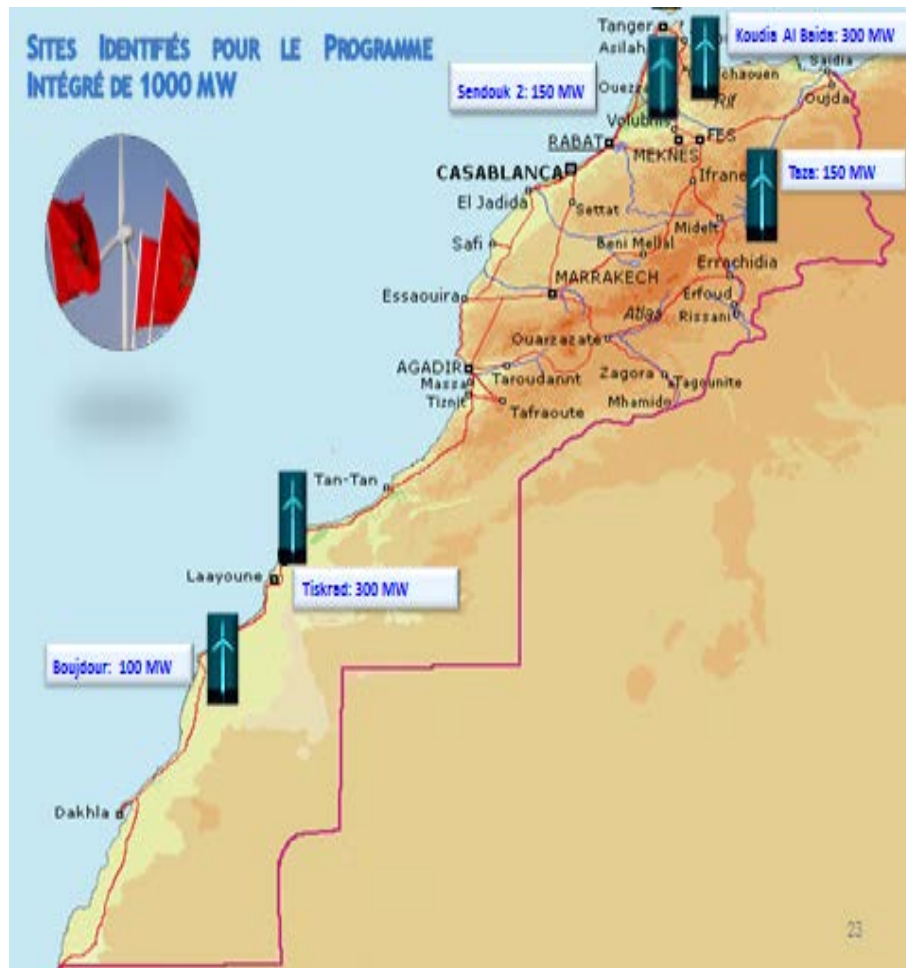
- Provide an **assessment of the maximum amount of non-dispatchable renewable generation** that is possible **to install in Algeria**, ensuring the reliability, integrity and efficiency of the power system
- **Execute reliability and market based analyses to assess the benefits** for the Algerian system due to the integration of the new renewable generation and the impact they will have on the cost of energy
- **Evaluate the adequacy of the transmission and sub-transmission systems** to transport the power generated by the new power plants to the identified local and regional demand centers

Time schedule

- Completion within 2016 3Q

Study 2015 on Socio-economic effects of large scale RE developments in MENA - Case Study of the Moroccan Wind Program

The study was conducted by **RCREEE** and coordinated by **RES4MED**



Key elements

- **Socio-economic enhancement initiatives** per community/location
- **Strategic conversation** with local stakeholders
- **Integrated approach** incorporating location specific conditions, technology value chain characteristics

Objectives

- Gain deeper understanding of the associated **socio-economic impacts** from large scale wind power projects **on local communities** specific to the wind program of Morocco

3. RES4MED – Mediterranean Planned Strategic activities 2016





RES4MED Day Algeria

(28-29 September 2016, Algiers)

The event aims at strengthening the dialogue between Sonelgaz and RES4MED (under the signed MoU) members and at generating a deeper exchange of views on the challenges and opportunities of renewable energy investments in the Algeria, with particular reference to the following topics:

- Integration of renewable energy sources in the electricity system
- International best practices of renewable energy development

A technical Joint Working Group could be convened for the MoU implementation activities back to back to the event

A country profile on Algeria will be prepared by RES4MED



Bilateral Workshop RES4MED – STEG ER

(tbd November 2016, Rome)

The Workshop will launch the relation between STEG and RES4MED, with particular reference to the following topics:

- Set up of a common Working programme based on mutual priorities
- Set up of a joint Technical Working Group
- Discussion on the best remuneration schemes to develop renewable energy

The workshop will provide an exchange of views on the main challenges and opportunities of renewable energy deployment in Tunisia and could be opened to Tunisian key stakeholders

A country profile on Tunisia will be prepared by RES4MED

RES4MED organizes the third edition of the **Advanced Training Course on** ***"Integration of RE solutions in the Mediterranean electricity markets"***

Politecnico di Milano, November, Monday 7th – Friday 18th

Organization

- Financed by Enel Foundation; Res4Med in charge of Project Management while PoliMi contributes by providing lecturers, facilities and logistics
- Lectures on technical, regulatory and financial features by qualified experts, academics and highly skilled technicians, matched with visits to innovative laboratories and power plants

Objectives

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- Favoring the setting up of an international network of experts.

Target audience

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4. ***“RES4Africa”***

*Proposal for a “strategic project”
within RES4MED*



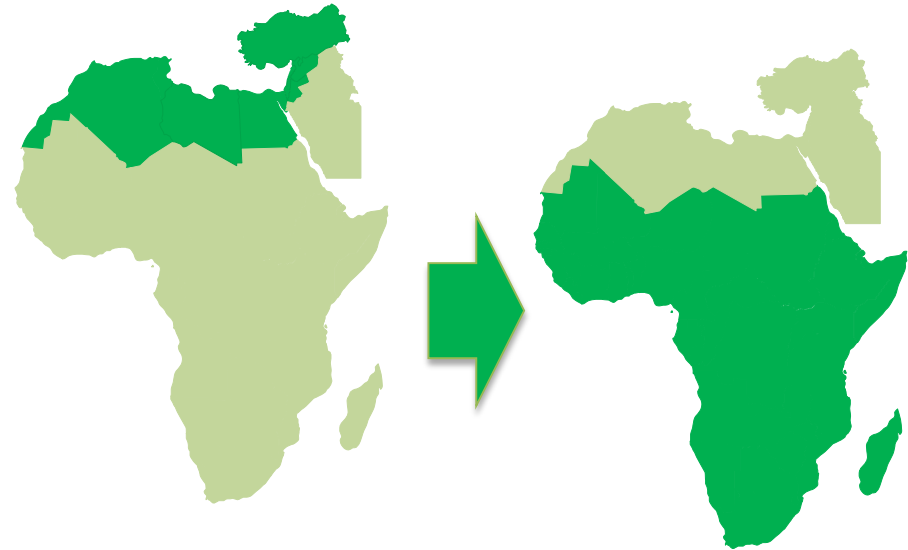
Africa is among the fastest growing regions:

- **Population boom** (1,1 mld to date, +1,8 mld new births expected by 2050)
- **Rising electricity demand**, to double by 2030 (but 600 million people and 10 million SMEs in Sub-Saharan Africa still do not have a connection to the electric grid)
- **Annual growth rate** was 3.4% in 2015, down from 4.6% in 2014. Forecast 2015-2030: 7% per year (different rates across Regions)
- **Abundant fossil and renewable energy resources are available across Africa**

But still persist **Socio-economic issues**, especially in the Sub Saharan Africa

- Critical living conditions (e.g. for cooking)
- Low competitiveness of local enterprises for power outages
- Urbanization

- Africa is richly endowed with **renewable energy sources (RES)**
- Renewable energy technologies are **cost competitive**, modular and can be **deployed locally** building a local value chain
- A number of African countries are setting up **feed-in tariff** and **auctions** to introduce **RES in the energy mix** (thanks to the benchmark of South Africa and Morocco) and **new capacity in the short term**
- The combination of **RE technologies** and **new business models** is fundamental to **ensure modern energy access to entire population** (e.g. Sub Saharian Africa)
- **Private sector** and foreign investors will play a pivotal role to **increase investments, competitiveness** and **innovation** in energy infrastructure, to properly fill the gap
- **Capitals will flow to Africa**, thanks also to the attention on climate and energy in Africa following COP21 in Paris: The World Bank Africa climate plan estimates that \$16.1 billion to be raised by 2020



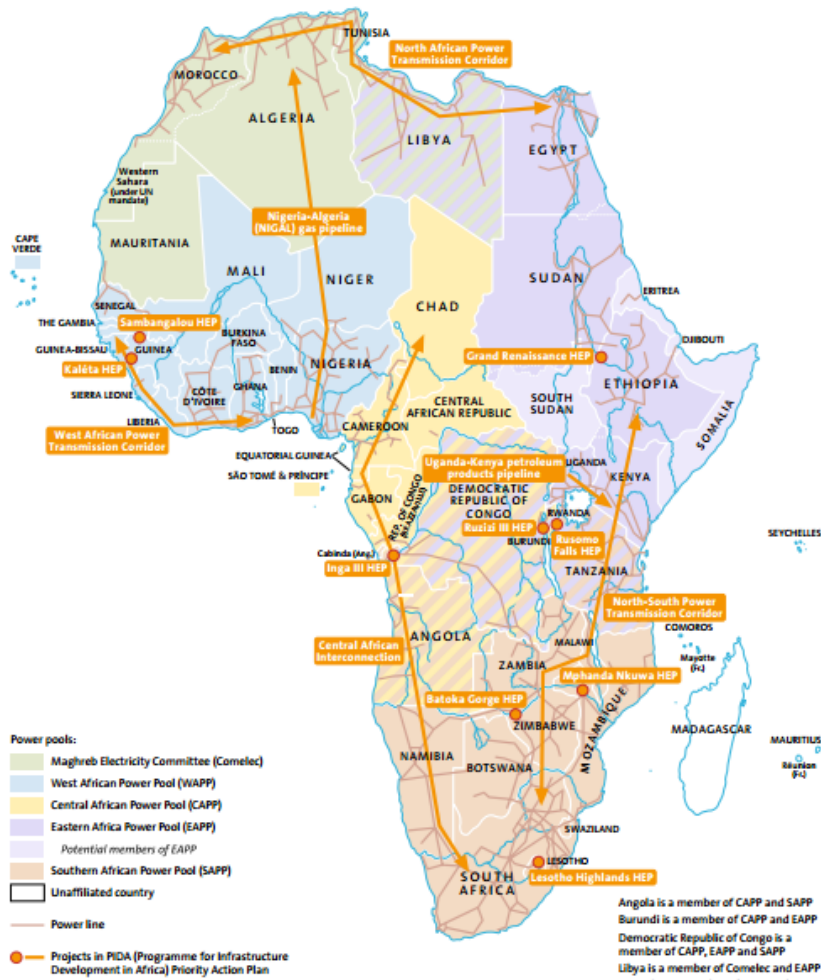
Preliminary steps

1. Creation of a dedicated **Working Group** with our members **DONE**
2. **Identify regions/countries** where first to **test our approach** **DONE**
3. **Mapping of similar initiatives** on going in the sub continent and verify points of similarity or of additionality **ONGOING IN KENYA**
4. **Dialogue with existing EU/Italian Initiatives** to speed up our accreditation and effectiveness **ONGOING IN KENYA**
5. **Local stakeholders mapping** **ONGOING IN KENYA**
6. **Assessment of needs**
7. **Partnership with local stakeholders** **ONGOING IN KENYA**
8. **Leverage on going activities** in the sub continent by **our members**

Broad, new, often very different issues to be tackled

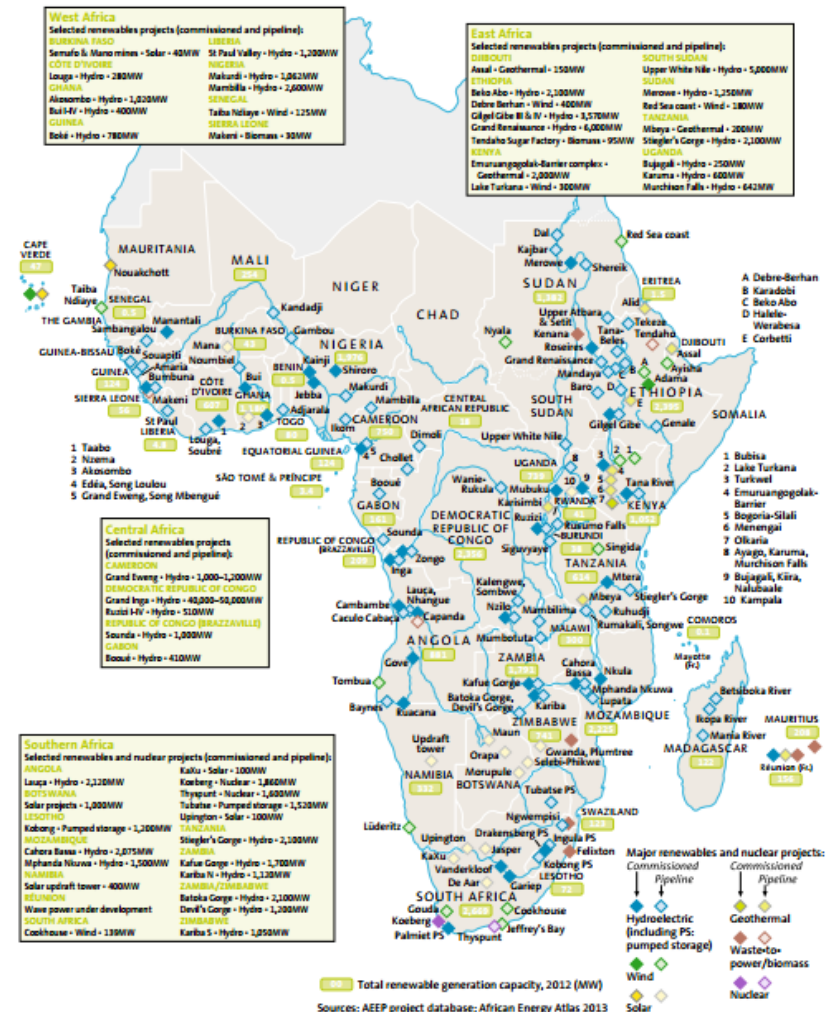
Need to prioritize and test our added value

Power pools, power lines and PIDA projects



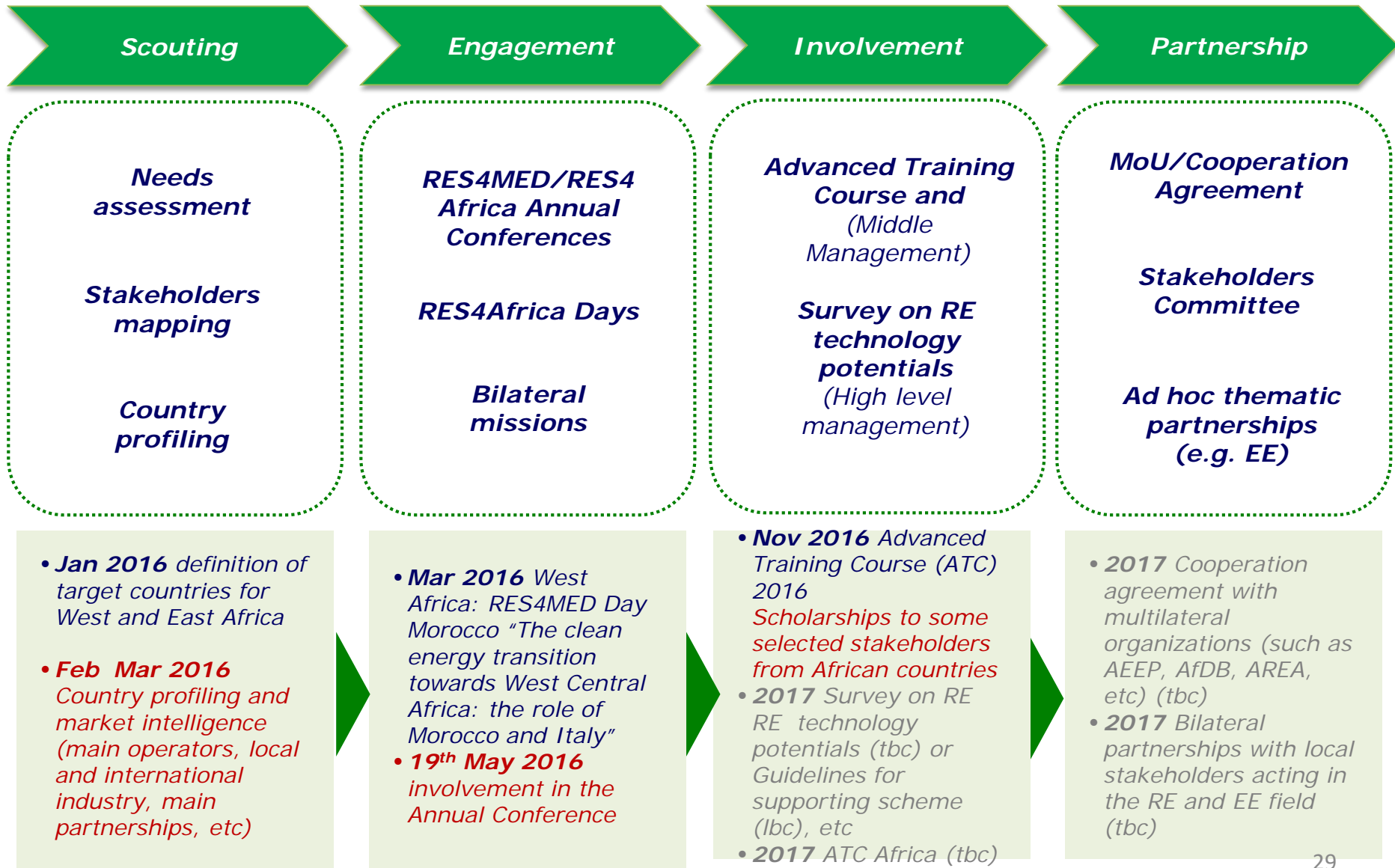
Sources: AEEP project database; African Energy Atlas 2013; Programme for Infrastructure Development in Africa

Sub-Saharan renewables projects



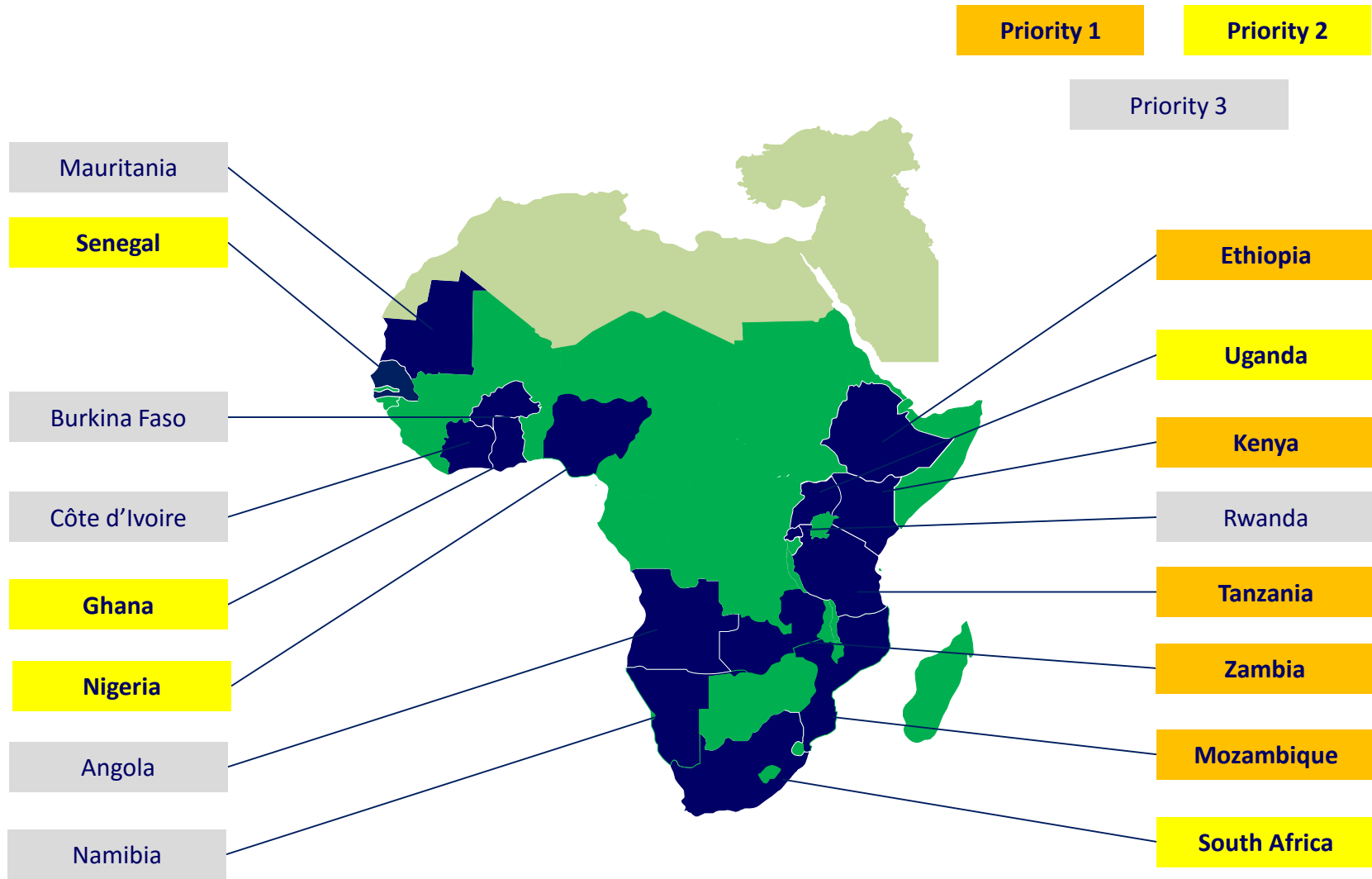
RES4MED/RES4Africa operational model

Preliminary proposal for African countries – 2016/2017



RES4Africa project

Preliminary scouting of countries by members



- **Launch of “Towards Africa - Central West”** in Rabat on March 9th **DONE**
- First **mission in Kenya** by our staff aimed to map local stakeholders **DONE**
- Hiring a **local liaison** in Kenya (part time) **DONE**
- Considering a **dedicated space on our website** to start marketing our projects starting from our members **DONE**
- Participation to **African Europe Energy Partnership (AEEP) II Stakeholders Forum**, held in Milan on May 16th - 17th 2016 with full involvement of Association and selected members **DONE**
- **“Beyond Med towards Africa”** at the annual conference in Rome May 19th **DONE**
- Include **5 experts from the sub-saharian region** in the class of Advanced Training Course with Politecnico in Milan in November 2016 **ONGOING**

We analyzed the key Initiatives and for the AEEP we observe that **rationale and motivations** are similar to ours as:

- RE is **key to increasing access** to sustainable energy service
- RE represents **opportunity for industrial growth and jobs**
- RE is **already happening in Africa** –support of public sector to investments
- The way forward: **involving stakeholders at local level**

Likewise same priorities

- **Energy security** – *diversification and infrastructure*
- **RE and energy efficiency**
- **Institutional capacity**
- **Scaling up investment**
- **Energy Access**



RES4MED AND AEEP JOINT STATEMENT OF INTENT OF COOPERATION

The agreement sees the parties cooperating with activities related to **renewable energy and energy efficiency sectors** in line with the **AEEP's 2020 political targets** and the **RES4MED mission** and strategy.

Building upon their knowledge and expertise, RES4MED and AEEP agreed to cooperate in particular on the organization of planned **events in Europe and Africa this year and the years to come**, as well as other **activities of mutual interest to be jointly evaluated**.

Launch of RES4Africa project

Italian institutional engagement



Rome, May 19th 2016 | 8:30 am - 4:30 pm
Enel Auditorium - Viale Regina Margherita, 125

Annual Conference RES4MED

Enhancing investments for clean tech
solutions beyond Mena towards Africa:
challenges and opportunities



*Ministero degli Affari Esteri
e della Cooperazione Internazionale*

<http://www.res4med.org/site/page?view=annualConference2016>

RES4Africa as new strategic project, taking on **the challenge offered by the African continent in relation to its potential and growth opportunities** in the renewable energy sector.

Need for **infrastructure development to provide access to electricity to the local population, to support industry and agriculture** and the need for stable regulatory framework to ensure the bankability of projects.

Policy and regulation

- to promote a level-playing field for RE reflecting actual market driven costs
- to encourage the introduction of the necessary legislation to allow RES independent power producers (IPPs) growth
- to promote proper remunerations schemes for RE investments and legal certainty)

Infrastructures

- to promote grid infrastructures expansion and renewal
- to promote integration of RE in the electricity systems
- to promote private participation in infrastructures investments

Financing and business models

- to encourage fair bidding conditions for competitive tenders for PPAs
- to promote the inclusion of dedicated financing facilities in the tenders
- to endorse involvement of IFIs, directly or indirectly through local banks financing programs

Socio-economic benefits

- to promote the adoption of instruments aiming at assessing the socio-economic benefits of RE investments
- to increase project origination in African countries by promoting the role of domestic developers
- to promote independent certification of local companies for services, systems and components

Training and capacity building

- to promote training programs focusing on the workforce to create jobs that meet industrial local needs
- to support actions aimed at strengthening the institutional and administrative capacity
- to promote empowerment mechanisms for vocational training, aimed at facilitating knowledge transfer

RES4Africa regional Day

“A step change in the deployment of Renewable Energy in Eastern and Southern Africa”

(Nairobi, 26-27 October 2016)

In cooperation with



RES4Africa Program 2017-2018

Training initiatives

Guidelines for proper remuneration schemes

Technology assessments

Thanks for your attention!

Contact details

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secretariat@res4med.org

www.res4med.org

www.res4africa.org

Annex – RES4MED membership Details

Supporter Members



Enel Green Power (<http://www.enelgreenpower.com>) is the Enel Group company dedicated to renewable energy with a presence in Europe, in the American and African continent. Enel Green Power is a founding partner of RES4MED

Mr. Francesco Venturini (CEO and General Director) is President of RES4MED



Edison (<http://www.edison.it/en>) is Europe's oldest energy company., Today, Edison, which is part of EDF Group (Electricité de France), it's one of the most important Italian operators in the procurement, production and marketing of electric power, natural gas and crude oil. Edison employs about 3,200 people in Europe, Africa and Middle East

Mr. Andrea Testi (Head of Power International Business Unit) is Vice President of RES4MED



assoRinnovabili (<http://www.assorinnovabili.it/>) is the main Italian Association (and one of the largest in Europe) representing the electricity producers from renewable sources – hydropower, wind energy, photovoltaic and bioenergy – and the other subjects of RE industry, manufacturing, engineering, consulting and trading companies

Mr. Agostino Re Rebaudengo (President) is assoRinnovabili representative at RES4MED Steering Committee



PwC (<http://www.pwc.com/>) is acknowledged as one of the world's leading advisers on energy, sustainability, infrastructure development and restructuring and project finance across all industry sectors, covering the full range of policy, regulatory, transactions execution and privatization and integration services

Mr. Giovanni Poggio (Partner PwC Italy) is PwC representative at RES4MED Steering Committee

Ordinary Members



Enerray (MaccaferriGroup) (<http://www.enerray.it/?lang=en>) is leader in the design, development and management of medium and large PV plants. The Company delivers turnkey solutions of photovoltaic systems for industrial roofing, shelters, grounds and greenhouses, ensuring best performances.

Mr. Michele Scandellari (CEO) is Enerray representative at RES4MED Assembly



Italgen (Italcementi Group) (<http://www.italgen.it/ENG/home.htm>) operates in the international market of the renewable energy sector. In Egypt Italgen is currently involved in the construction of a wind farm (120 MW) and in the development of an additional one (200 MW) in Gulf El Zeit (Red Sea)

Mr. Giuseppe De Beni (CEO and Managing Director) is Italgen representative at RES4MED Steering Committee



Pöyry Management Consulting (<http://www.poyry.it/it/chi-siamo/management-consulting-italia>) is the management consulting arm of the Pöyry Group; through 23 offices on five Continents and employing more than 430 management consultants

Mr. Antonio Nodari (Managing Director) is Poyry representative at RES4MED Assembly



Terna (<http://www.terna.it/Default.aspx?tabid=101>) is a leading electricity transmission grid operator. Terna is the first independent operator in Europe and sixth in the world for kilometers of electricity lines managed

Mr. Carlo Crea (International Affairs Director) is Terna representative at RES4MED Steering Committee



TerniEnergia Spa (<http://www.ternienergia.com>) operates in the development of energy efficient plants both through EPC scheme and FTT scheme (Financing Through Third Parties), pursuing the objectives of increasing energy production from RE sources

Mr. Sergio Agosta (Managing Director) is TerniEnergia representative at RES4MED Assembly

Associated Partners (1/3)



Airlight Energy (<http://www.airlightenergy.com>) Airlight Energy is a Swiss supplier of proprietary solar technologies for large-scale production of electricity and thermal energy, and for energy storage. Airlight Energy is already active in the MENA Region, particularly in Morocco, where, in 2013, it has built its first CPS pilot plant in Ait Baha



Althesys (<http://www.althesys.com/>) is an independent professional firm, specialized in strategic advisory and in the research in the environment, energy and utilities industries. It operates in the areas of strategic analysis, economic and financial research and corporate finance, carrying on studies and projects both at national and international level



Asja (<http://www.asja.biz/index.php>) is an international group that has been active since 1995, designing, building and managing power plants which generate electricity from biogas, wind, and solar energy. Asja intends to develop projects in Mediterranean countries and the Balkans, making use of know-how gained through nearly twenty years of experience in the sector of renewable energy



Carraro (<http://www.carraro.com/en/>) is a leading international group in the field of highly efficient and ecocompatible power transmission systems, with production premises in Italy, India, Argentina, China, Germany, Poland and the United States. The new frontier is represented by renewable energy solutions, such as the inverters for Elettronica Santerno's photovoltaic and wind power systems



CESI (<http://www.cesi.it/Pages/default.aspx>) is one of the most important technical consulting firm worldwide specialized in the Electricity Sector, with a particular focus in Transmission and Distribution. Cesi has been active for decades in more than 50 years of activity in generation and transmission studies, particularly in the Med basin

Associated Partners (2/3)



Convert Italia (<http://www.convertitalia.com/en/>) designs and builds systems and plans generating energy from renewable sources, such as PV. Convert primarily operates in the industrial production of single-axis trackers both as single products or as components for integrated systems. In the energy efficiency sector Convert acts as ESCO



D'Appolonia (<http://www.dappolonia.it/en>) is the operational arm of RINA , developing and offering engineering services. The company provides a wide range of services such as feasibility and specialized studies, design, project management, site engineering and operation & maintenance management



Environmental Resources Management (ERM) (<http://www.erm.com/>) is a leading global provider of environmental, health, safety, risk, social consulting services and sustainability related services.



ETS SpA (<http://www.etsspa.net/>) offers its experience in different types of international projects, which have provided important references. ETS offer integrated services of multidisciplinary design and management of projects, mainly in the Power, Oil & Gas and Petrochemical industries.



Friem (<http://www.friem.com/>) is leader in design and manufacture High Power Converter for Industrial, Traction and Renewable Energies applications. FRIEM started the production of the ReCon Line, a complete line of Inverters for RE



Ugo Bordon Foundation (<http://www.fub.it/en/home>) is an independent research institute of high culture under the supervision of the Ministry for the Economic Development, that has a long tradition of studying in telecommunication and Information and Communication Technology (ICT) sectors



Holding Fotovoltaica Spa (<http://hfvspa.com/>) develops and operates solar power plants in Italy, especially in central and southern regions of the country. The company also provides construction and management of photovoltaic parks



IREN (<http://www.gruppoiren.it/>) is one of the largest and most dynamic multi-utility companies on the Italian scene and operates in the sectors of electricity, thermal energy for district heating and gas, and in the management of integrated water services, environmental services and technological service



MegaCell (<http://www.megacell.it/home-english/>) is the leading and Italian based photovoltaic (PV) bi-facial high efficiency cells and module manufacturer. MegaCell has decided recently to expand its activities also in Egypt. In fact last 25th Nov. 2014 MegaCell and Misr Asset Management, the Cairo-based Investment Bank which provides fund management



SAET (<http://www.saetpd.it/>) develops Systems and Turn-Key supplies based on the following core competencies such as: HV Substations, MV-LV Distribution Systems, Protection Metering & Control Systems

GSE (<http://www.gse.it/en/Pages/default.aspx>) has been operating since 2005 as the implementing body of national policies on renewable sources as well as an active participant in the International context, by supporting the Ministries of reference



RSE SpA–Ricerca sul Sistema energetico (<http://www.rse-web.it/home.page?country=eng>) – is a joint-stock company, the only owner of which is GSE SpA, that develops research activities in the field of electricity and energy, relevant to the strategic national projects of public interest, funded by the "Fondo per la Ricerca di Sistema"



Politecnico di Milano (www.polimi.it/en/english-version/) is the largest Technical University in Italy, founded in 1863. At the Department of Energy, more than two hundred fifty staff academics, temporary researchers, post-doc and PhD candidates work on various energy research projects, with at strong effort towards the application of RES technologies, distributed generation and smart grid in the Mediterranean



Politecnico di Torino (www.polito.it/index.php?lang=en) founded in 1906 from the roots of the Technical School for Engineers created in 1859, has a long-standing tradition of leadership of polytechnic culture. It is one of the most important universities in Europe for engineering and architecture studies, strongly committed to collaboration with industry business



Bocconi University (<http://www.unibocconi.eu/>) is a private university in Milan, Italy. Bocconi provides undergraduate, graduate and post-graduate education, in addition to a range of double degree programs, in the fields of economics, management, finance, law and public administration