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LEAP-RE

Research and Innovation Action (RIA)

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http://www.leap-re.eu/

LEAP-RE
Long-Term Joint EU-AU Research and Innovation Partnership on Renewable Energy

Ranking list from the pre-proposal evaluation of first co-funded call

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LEAP-RE - Contract Number: 963530

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Document title	Ranking list from the pre-proposal evaluation of first co-funded call
Author(s)	Pr. Mokthar SELLAMI, François MOISAN (ANR); Marie-Laure TAROT (ANR)
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Summary

Pillar 1 objective is to support international research and innovation projects through joint calls co-funded by national/regional funding organisations and European Commission. This deliverable will provide an overview about the selected pre-proposals, which are eligible for the full proposals and the second step of the evaluation. The Joint Call Secretariat of LEAP-RE Pillar1, received through the ANR Portal 122 pre-proposals, among them 31 were rejected at the selection process. The evaluation of the remaining 91 proposals was performed by an International Review Panel (IRP), a pool of 30 experts recommended by national/regional organizations. A total of 38 research consortia are selected to write a full proposal. The deadline for full proposals is set to September 15, 2021. Applicants of full proposals are informed about the selection results in 30 November 2021 and the Latest starting date of selected projects will start in 1st May 2022.

Approval

Date	By
2021-07-08 17:33:09	Dr. Francois MOISAN (ANR)
2021-07-09 10:24:03	Mr. Léonard LéVêQUE (LGI)

LEAP-RE

Long-Term Joint EU-AU Research and Innovation Partnership on Renewable Energy

Pillar 1 Ranking list from the pre-proposal evaluation of first co-appointed funded call

Deliverable D7.4

30.06.2021

www.leap-re.eu

Authors:

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Document information

Grant Agreement	963530
Project Title	Long-Term Joint EU-AU Research and Innovation Partnership on Renewable Energy
Project Acronym	LEAP-RE
Project Coordinator	Vincent Chauvet (Vincent.chauvet@lgi-consulting.com) – LGI
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Table of contents

This project has received funding from the European Union's Horizon 2020
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1) PILLAR 1 Evaluation stage 1

Pillar 1 objective is to support international research and innovation projects through joint calls co-funded by national/regional funding organisations and European Commission. This deliverable will provide an overview about the selected pre-proposals, which are eligible for the full proposals and the second step of the evaluation. The Joint Call Secretariat of LEAP-RE Pillar1, received through the ANR Portal **124** pre-proposals, among them 32 were rejected at the eligibility check step. The evaluation of the remaining **92** proposals was performed by an International Review Panel (IRP), a pool of 26 experts recommended by national/regional organizations. A total of 36 research consortia are selected to write a full proposal. The deadline for full proposals is set to September 15, 2021. Applicants of full proposals are informed about the selection results in 30 November 2021 and the Latest starting date of selected projects will be 1st May 2022.

2) Overview of the Selection Process

Pre-announcement Call for the AU-EU Collaborative Research and Innovation projects on Renewable Energy was launched on 15th October 2020 and the Call for pre-proposals published and disseminated on 15th January 2021, with a deadline for Pre-proposal submission fixed to1st April 2021. The call announcement has widely been spread by the LEAP-RE group of funding which consists of 8 funding organisations from Africa and 9 funding organisations from Europe. A call text was published on the LEAP-RE website and national website portals, covering all aspects necessary for a successful application.

3) Eligibility criteria for the call for proposals

Participating countries/regions to the call for proposals are those who have at least one funding institution participating in Pillar 1.

A consortium applying to the Call must consist of at least four project partners from 4 different countries (2 from Europe and 2 from Africa). At least one partner of the Consortium should be from an European country participating to the Call and eligible to receive support from the relevant participating funder and one partner from an African country participating to the Call and eligible to receive support from the relevant participating funder.

In general, organisations from European countries/regions not participating in the Call can be partners of the consortium on the condition that they provide evidence of the availability of their own funds to cover their project activities.

African Organisations from countries/regions not participating in the Call and African Organisations from countries participating in the Call but not eligible to their national funding rules are eligible to apply for funding, although the resources available for this are limited.

There is no limit to the maximum consortium size, but it should be suitable for the level and complexity of the project and each partner should have a significant contribution in order to demonstrate the transnational added value of collaboration.

The maximum funding for each project is 1 Million € and the maximum funding per partner in one project is 600 k€. However not all funding agencies will apply these amounts. The funding

maximum for one partner (600 k€) will apply for each project but does not accumulate for a partner present in several projects.

The coordinator of the consortium must be eligible to receive support and be established in a country or region participating in the Call. A Lead Researcher can only represent the coordinator in **one** proposal (i.e. if a Lead Researcher coordinates one proposal, he/she can only participate in other proposals as a researcher/key personnel of a consortium partner).

Researchers members of the IRP (International Review Panel) cannot be member of a consortium applying to this Call.

Researchers members of a funding Organization does not apply to the Call unless exception decided by the Call Steering Committee.

4) Submission of the pre-proposals:

After the registration the coordinator who represent the consortium, submit the pre-proposal using the LEAP-RE Electronic Submission System. A total of 124 projects were received under the Joint Call and considered eligible by the electronic platform (meaning they have one scientific document).

After checking the eligibility by the Call Secretariat it turned out that 31 projects were judged non-eligible (projects asking for more than 1 M€, coordinator not from an eligible country, put a wrong document for the pre-proposal, registered two time the proposal on the platform with different names, only 1 partner, etc).

Pre- proposals which are eligible according to transnational and national rules were evaluated by at least three independent experts from Africa and from Europe. We adopted the following rules for the attribution of the projects to evaluate.

5) Mechanism of allocation of projects for evaluation

The process proposed is illustrated through the projects addressing MAR 2. The table presents for each project (in line) the potential conflict of interest of each expert (in column) and the level of expertise of each expert.

				El-Hadi BENYOUSSEF		Abdallah KHELLAF	Fouad Khald	Rekioua Djamil	EL BACHTIRI Rachid	Najma LAAROUSSI	Mohammed GAROUM	Khalid BOUABID	Faith Bridget Tu	Ntombifuthi Ntu	Dr Minnesh Bip	Mary Suzan Abi	Simon BAWAK	Amjad Anvari-I	Anjali SHUNKER	DE GROMARD
				Algeria		Algeria	Algeria	Algeria	Moroc co	Moroc co	Moroc co	Moroc co	South A	South A	South A	Uganda	Ghana	Denmar	France	France
				C	S															
C-Inside	Analysis of PV	End-of-life an	Germany		3		3		0	1		0		2		2		2		2
INNO-PV	Innovative lo	End-of-life an	Germany		3		3		0	1		0		2		2		2		2
LEAP-RE Cofu	Long term Eu	End-of-life an	Germany		3		3		0	1		0		2		2		2		2
RELEx	Renewable Er	End-of-life an	Germany		3		3		0	1		0		2		2		2		2
RESTART	Recycling of s	End-of-life an	Marocco		3		3		0	1		0		2		2		2		2
SIREVIVAL	Si-based devic	End-of-life an	Belgium		3		3		0	1		0		2		2		2		2
SUNRISSE	Systematic Ut	End-of-life an	Roumania		3		3		0	1		0		2		2		2		2

				Ntombifuthi Ntu	Dr Minnesh Bip	Mary Suzan Abi	Simon BAWAK	Amjad Anvari-I	Anjali SHUNKER	DE GROMARD
C-Inside	Analysis of PV	End-of-life an	Germany	4	2	4	0	3	4	1
INNO-PV	Innovative lo	End-of-life an	Germany	4	2	4	0	3	4	1
LEAP-RE Cofu	Long term Eu	End-of-life an	Germany	4	2	4	0	3	4	1
RELEx	Renewable Er	End-of-life an	Germany	4	2	4	0	3	4	1
RESTART	Recycling of s	End-of-life an	Marocco	4	2	4	0	3	4	1
SIREVIVAL	Si-based devic	End-of-life an	Belgium	4	2	4	0	3	4	1
SUNRISSE	Systematic Ut	End-of-life an	Roumania	4	2	4	0	3	4	1

Eg : MAR 2 : End-of-life and second-life management and environmental impact of RE components: 7 eligible projects
Red = Experts from the same country as project leader
Orange = Experts from the same country as a member of the project consortium
Blue = expert level 4 without any conflict of interest (potential evaluator)

The experts also received:

- Code of Conduct regarding Conflict of Interests
- Declaration of Conflict of Interest and Non-Disclosure Agreement
- Guidelines for the evaluation for the first step

Selection of experts with expertise level 4 in priority, 3 as second choice (without conflict of interest)
Each project was evaluated by 3 or 4 experts, at least one from Africa and one from Europe. Nine (9) projects were evaluated by only two experts due to withdrawal of two experts during the evaluation phase. even four when necessary. IRP members don't evaluate projects where partner(s) are from their country.

The final list of suggested proposals, to be invited for submitting a full proposal is drawn up. This is done on the basis of the ranking. In Annex1 we present an overview of the interface of the evaluation process. As a guideline it will be aimed to limit the amount of invitations for full proposals to an eventual success rate of about 33% (meaning that the oversubscription ratio at the preselection step was in average 3 times the available budget). Projects coordinators of selected pre-proposals could be encouraged to widening their Transnational Project consortium in order to include countries participating to Pillar 1 in situation of undersubscription. This point will be discussed with the call steering committee.

6- Tab1: LEAP-RE research consortia selected to write a full proposal

N°	Project id	Score	Short title	Country leader
1	PyroBioFuel	13,3	Sustainable biomass conversion into bioenergy through pyrolysis	Egypt
2	IRES-RE	12,8	Integrated Renewable Energy System providing REfrigeration by the use of metal hydrides	South-Africa
3	SunGari	12,8	SunGari: A modern solar cooking solution for African staples	UK
4	QDSOC	12,7	Environmentally friendly colloidal quantum dots for high performance solar cells	France
5	RESTART	12,5	Remote sensing for better evaluation and viability of rural solutions leading to better electrification deployment	Morocco
6	SIREVIVAL	12,5	Renewable Energy Resource and Environmental Impact Mapping	Belgium
7	OASES	12,0	Development and Demonstration of a Sustainable Open Access AU-EU Ecosystem for Energy System Modelling	Germany
8	SOLAR INDUCE	11,8	SOLAR INDUCEed domestic clean efficient cooking and refrigeration for off-grid applications in Africa	UK
9	PVSYSTEM	12,0	Smart Scalable Off-Grid PV System	Romania
10	TerraCooltech	12,0	Developing transferable strategies for micro-grids in city districts taking two examples in Egypt and Algeria	Germany
11	SOLARDES	11,5	Decentralized Solar Charging System for Sustainable Mobility in rural Africa	Spain
12	Hydrice	11,3	Hydrogen-rich SYNGAS production using Innovative gasification system towards a Circular Economy in rural area	Portugal
13	HyRECA	11,3	Hybrid Renewable Energy Conversion Approaches: Sustainable solutions for rural energy supply and employment	Finland
14	NanoSolarCells	11,3	Integration of photonic conversion layers based on photoemissive nanostructured materials for improving sunlight harvesting ability of solar cells	France
15	BIOSOLAR	11,3	Hybrid solar and biogas system for renewable electricity and cooking in rural African communities	UK
16	BEAT Green	11,0	Boosting the European-African Transition towards green energy supply	Belgium
17	gLPG	11,0	Green cooking gas for off-grid communities	South-Africa

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18	LEDSOL	11,0	Enabling clean and sustainable water through smart UV/LED disinfection and SOLar energy utilization	Romania
19	Per-Fact	11,0	PV-Energy and Food for African Transition Research	Germany
20	RE-Net Africa	11,0	Recycling of spent Li-ion batteries and end-life photovoltaic panels : From the development of metal recovery processes to the implementation of a START-up	Germany
21	SoCoNexGen	11,0	Smart and Optimal Integration of Renewable Energy and Hybrid Systems in Buildings: A European North African. Initiative and Collaboration.	Germany
22	PPPack	10,8	The Personal Power Pack (PPP) as the building block towards sustainable economic growth, mobility and education	South-Africa
23	EDICE	10,7	Improving energy efficiency in buildings with printed perovskite solar cells on the ceramic tiles	Morocco
24	HOPE	10,7	Hybrid Microgrid Open Platform for decentralized Electrification of African communities	Portugal
25	INTERACT	10,7	Intelligent NEtwoRk with locAl ConsumpTion	France
26	SIREN	10,7	Si-based devices for renewable energy: From end of life recycling to revival of photovoltaic modules	Romania
27	MG-FARM	10,5	Smart stand-alone micro-grids as a solution for agriculture farms electrification	France
28	AWa Sun	10,3	Autonomous standalone Wastewater treatment system based on photocatalytic semi-conductors driven by the Sun	Morocco
29	H2-OMG	10,3	Hydrogen use in sector-coupled optimized mini-grids for productive use	Germany
30	MYRE	10,3	Magezi Ya Gambo – Renewable Energie (for rural communities)	Portugal
31	SolChargE	10,3	Development of smart Stand-Alone Hybrid Systems based on 100% renewable sources for isolated districts in African Countries.	Germany
32	HyAfrica	10,3	Towards a next generation renewable energy source – a natural hydrogen solution for power supply in Africa.	Portugal
33	AfricaInMotion	10,0	Productive Use of Solar-powered Mobile Energy for Africa	Morocco
34	BioLPG4CleanCooking	10,0	Accelerating the transformational capability of BioLPG for clean cooking and climate action in Uganda and Morocco	UK
35	HYLOS-Grid	10,0	Hybrid Local Smart Grid at the University of Sidi Bel-Abbes	Algeria
36	REVISE	10,0	Robust Grid Expansion of National Grids in West Africa	France

7- Tab2: LEAP-RE research consortia eligible but not selected

N°	Project id.	Score	Title
1	PMFCs	11,3	Performance of Microbial Fuel Cells for wastewater treatment and power generation
2	Surprise waste	11,3	TERrestrial passive daytime RAdiative COOLing based on a renewable and sustainable TECHnology without energy consumption for urban and rural applications
3	SEH	11,0	Smart Energy-Water-Food-Systems for Remote Communities in Africa
4	SmartREMAP	11,0	Smart Mini-Grid Renewable Energy System (SMRES) for Rural Application
5	SSHHSAF	10,8	SunGari: A modern solar cooking solution for African staples
6	AFELiS-BAT	10,7	TowArd high-perFormancE all-solid-state Lithium Sulfur BATteries
7	OSMAM	10,7	Development of Resilient Power and Energy Management Strategies for Urban Microgrids–Case of North African Countries
8	SOIRES	10,7	SOLAR INDUCEed domestic clean efficient cooking and refrigeration for off-grid applications in Africa
9	empowerAfrica	10,5	Set-up, operate and implement a low-cost electrochemical microbial stand-alone power supply for Africa
10	NorAfGeo	10,5	Geothermal Perspective for North Africa (Morocco, Algeria, Egypt)
11	Decentralized diesel	10,3	Decentralized diesel: A robust stand-alone system for generating diesel and electricity from bio-waste using solar energy
12	BRIGH2T	10,0	Building EU-AU Reaserach & Innovation cooperation on Green Hydrogen and P2X for a deep Transformation of energy systems.
13	NECC	10,0	Towards a net-zero energy community concept in different climates
14	HYDROSOLAR	10,0	Integrated Smart System of Solar Powered Water Desalination for Urban and Agricultural Applications
15	SCEISL	10,0	Solar ethanol production to reduce GHG emissions for cookstoves
16	SHybrid4Africa	10,0	Smart integration of renewable energy sources to ensure energy access in remote communities for sustainable development
17	SOCOA	10,0	Solar Indoor Cooking Systems of the Next Generation
18	3S Dryer System	9,8	Smart Stand-alone Solar Dryer for the Agricultural Production in Africa

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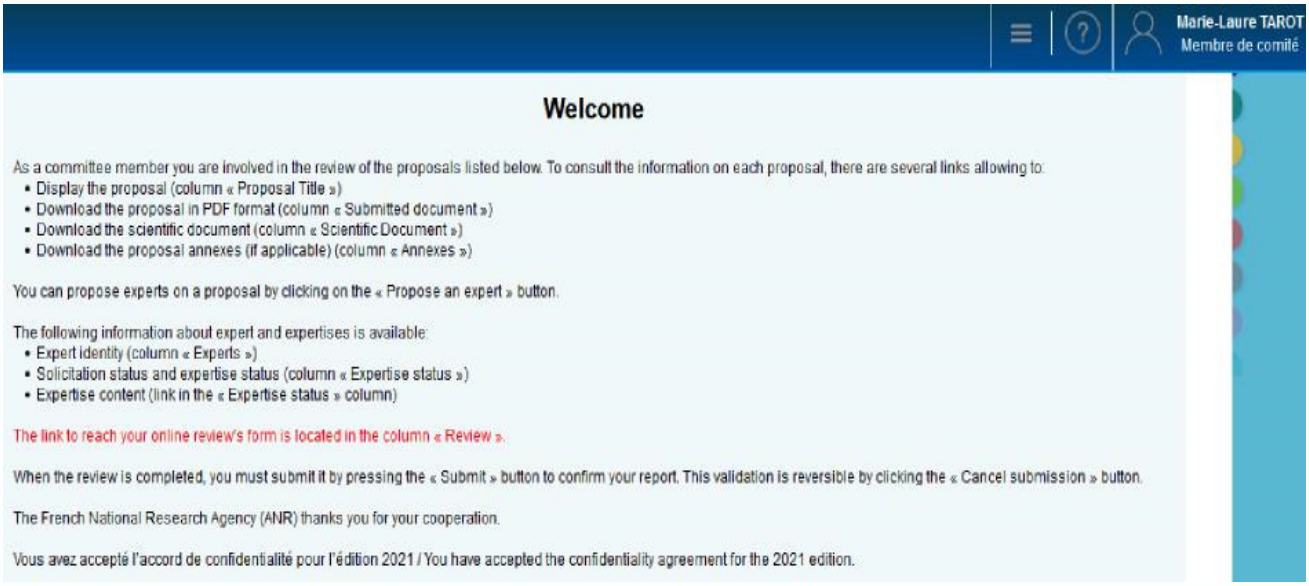
19	Hyb. Sol. PVT for Buil. Agr.	9,7	Energy Efficiency and Development of hybrid renewable energy systems for building and agriculture
20	LC-SES	9,7	Low Cost Smart Standalone Renewable Energy System - Tackling Societal and Technical Challenges
21	LoveSys	9,7	A New Smart Stand Alone Low Voltage System for Isolated Community in Africa
22	SDG-Cookstoves I		
23	SMRES-I	9,7	Stand alone On-shore wave energy COnverter in Africa
24	VALOBIO	9,7	Energy valorization of local abundant biomass
25	C-Inside	9,5	Analysis of PV-module Components using Machine Learning and High-Throughput Characterization.
26	CO2HAC	9,3	Alloy nanoparticle catalysts for CO2 hydrogenation
27	REDFCA	9,3	Renewable Energy Driven Food Cold Chain in African Remote Farms
28	REMENA	9,3	Promoting Renewable Energy & Bioenergy Entrepreneurship for SMEs and Startups in MENA region
29	SGE-ECF	9,3	Standalone hybrid energy systems for intelligent integration and efficient use of available renewable energy resources in Africa
30	AgriPVH2Farm	9,3	Agrivoltaic and Green Hydrogen Energy Systems for Sustainable Farming
31	ReGen 4.0	9,0	Renewable Generation 4.0 – Young people empowerment through a smart renewable energy system in rural Africa.
32	MECCA3	8,8	Market-outlets for Energy-efficient Consumption and Connection Access in Africa
33	CoDREAM	8,8	Community-driven Renewable Energy Mini-Grid
34	SEGAFA	8,7	Solar Energy for Advancement in Galvanizing in Formulation and Application
35	CCOOKFT	8,7	Development of a clean cooking system using solar energy for food trucks
36	FREE-STORM	8,7	Freeing Renewable Energy Expansion for Sustainable Transition through Open-souRce Modelling
37	MBAPE	8,7	MoroccoBelgiumAlgeriaPortugalEspana
38	SUNRISSE	8,7	Systematic Utilization of Natural Resources with Innovative Scientific approaches for Sustainable production of affordable Energy
39	Carbon0Village	8,7	Renewable Energy Integration for Sustainable and Autonomous African Villages
40	PET	8,5	Pathway towards Energy Transition in Africa (PET)

41	TraMiGEA	8,5	Developing transferable strategies for micro-grids in city districts taking two examples in Egypt and Algeria
42	RELEx	8,3	Renewable Energy Equipment Lifespan Extension
43	SHRES1	8,3	Standalone hybrid energy systems for intelligent integration and efficient use of available renewable energy resources in Africa
44	CPVT-SEC	8,3	Development of a Concentrated Photovoltaic/Thermal system with Self- Cleaning for Electricity and Cooling production in Hot and Dusty Environments
45	REE-AgriC	8,0	Renewable Energy and Efficiency in Agriculture Value Chain for Sustainable Development
46	INNO-PV	8,0	Innovative IoT Platform for Photovoltaic solar energy (PV) Production
47	LEAP-RE	8,0	Long term Europe-Africa Research and Innovation call on Renewable Energy
48	INMECENSYS	8,0	Design of an integrated mechatronic multi-source system adapted to the energy needs of small communities in Africa
49	SEETY	8,0	Smart Energy Efficiency for the ciTY: case study Tipasa, Algeria
50	PeCo Clean Cook And CooL	7,3	Personal Consumer (PeCo) Grids with Clean Cooking and Cooling Loads.
51	NOAH	7,3	New Opportunity for Agricultural Photovoltaics applications
52	AI-ECS-UBREM	6,8	Artificial Intelligent Energy configurative Systems through Urban Building Renewable energy Modeling
53	HMOSC	5,0	New hybrid materials for highly efficient and reliable organic/perovskite solar cells

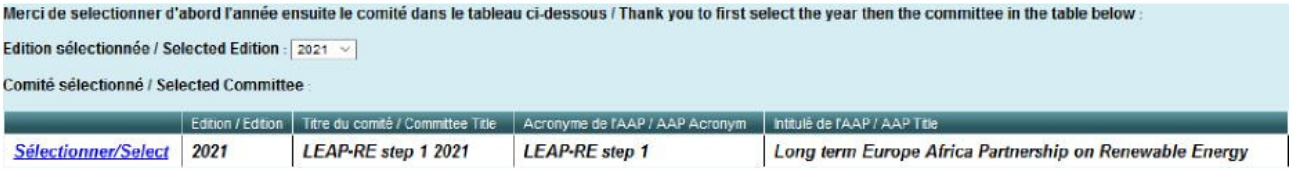
8 - Tab3-List of projects not eligible (31)

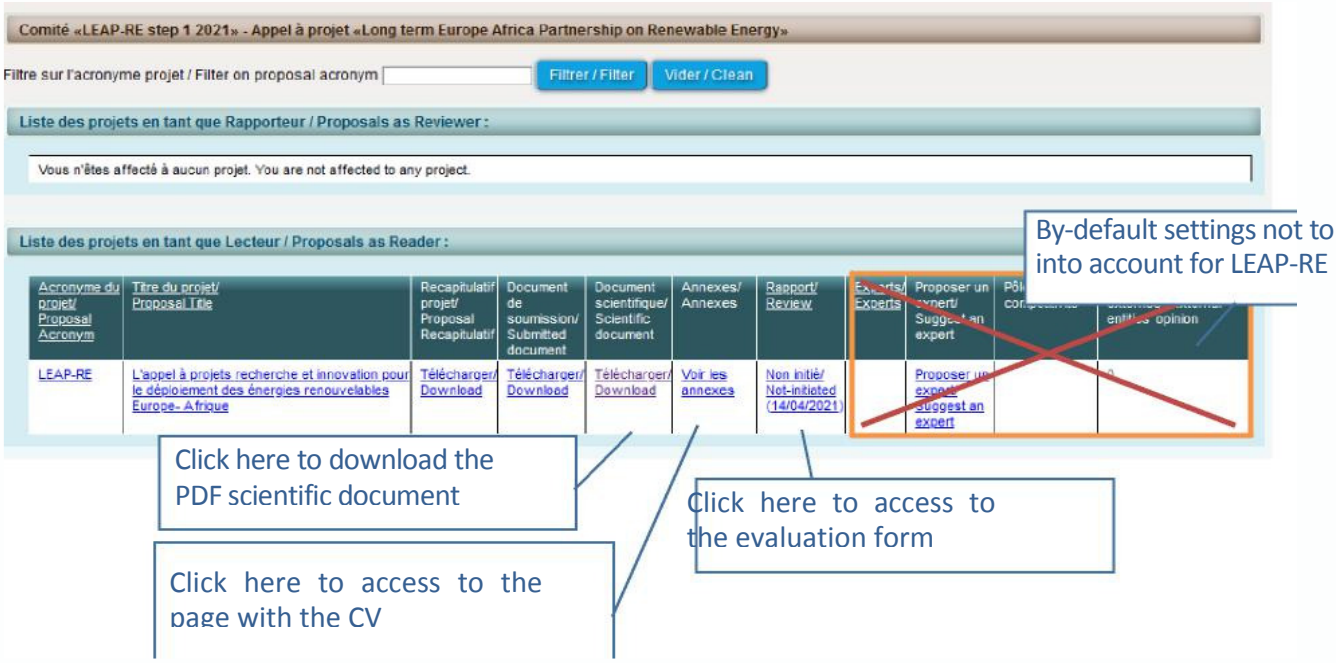
3G-ECOSYS	ME-01.2021	SUCESS-WA	Integrated off grid concepts	GES-ECF
AquaEnergy	Nanofluids	WaTER	IWTEP	GreenDesert
ARERH	PURE-SSA	XWIND4AFRICA	LEAP-RE Cofund Call 2021	HYBRIDBIOGAS
Cool-Mi	REAFNex	ENLIGHTENING	MASDT of Smart Grid	SOLBIOC
COREnergy Africa	REDU	FREEPUMP	HYPOCOCS	EIODMSS
Cycler	SESA	EAN-REPoDeG	SOLARHBRID	SMARTEST
DTES				

9 - Annex1: Overview of the welcome page and …



Below all the details concerning your part in the evaluation of LEAP-RE.

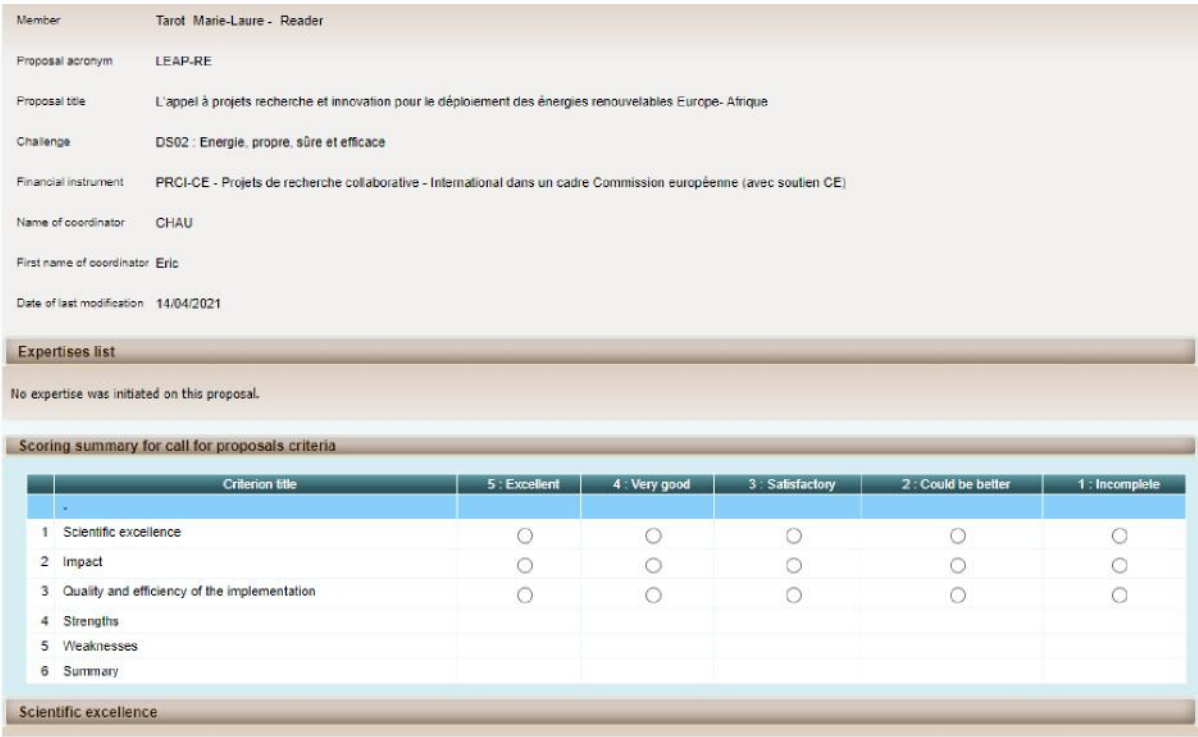




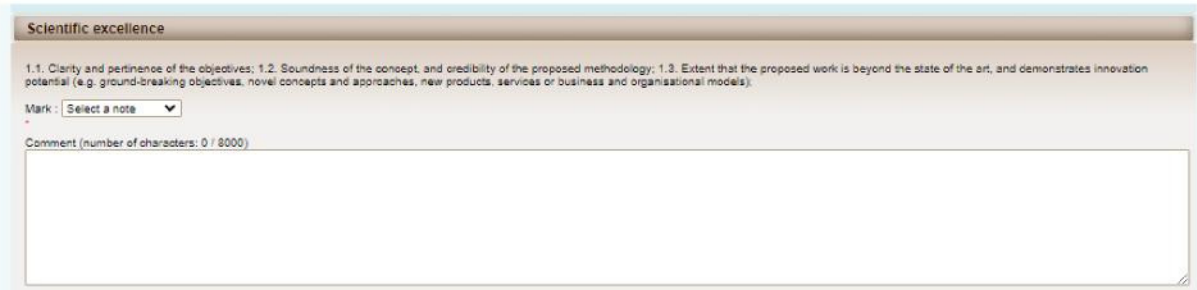
….. The Evaluation Interface

Please read carefully the introductory information, notably about the evaluation scales.

By scrolling down, we get summary information about the pre-proposal and the evaluation scores.



Each criterion is shown as following:



At the end of the evaluation form, a total score from the scores on each criterion gives an overall mark over the scale A+/A/B/C according to the definition of the scale previously given.