



Kick-Off Workshop with GAF, PFIs and Investors Yerevan, 25.05.2021

Promotion of Renewable Energies (Accompanying Measure) - Phase IV, Phase V (GAF-RE)



Federal Ministry for Economic Cooperation and Development



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### **Revision status**

Rev.	Date	Content/Amendments	Prepared	Checked
0	21.04.2021	First draft	Fichtner*	Störring
1	24.05.2021	Incl. R2E2 intro slides & logos	Fichtner	Störring
2				

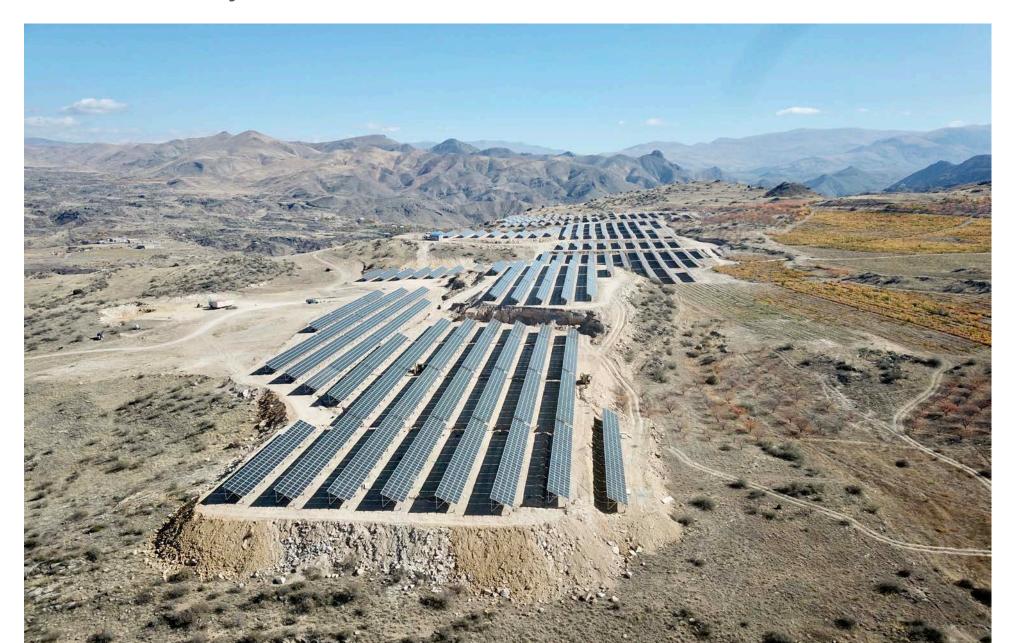
\*Fichtner project team: Artem Kharazyan, Alena Zajac, Sven-Malte Störring,

1	Short welcome address by KfW	
2	Introduction to the Program	
3	Fichtner's work plan and interfaces to Investors	
4	Investors' input and questions	

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### 1 – Short welcome address by KfW

Mrs. Bella Andriasyan - KfW



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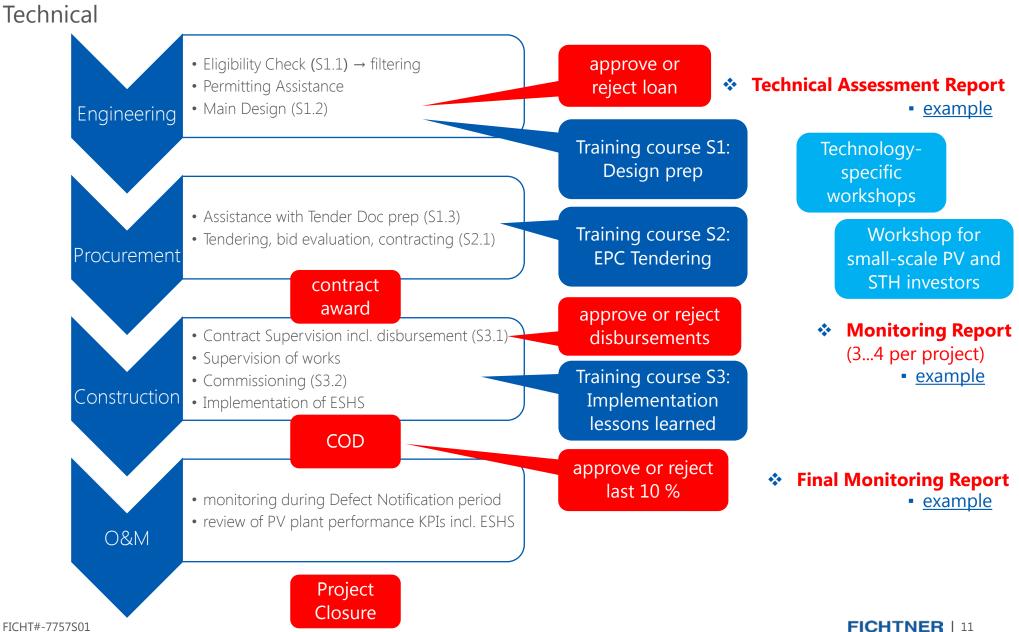
### 2 – Introduction to the Program

### Promotion of Renewable Energies (Accompanying Measure) - Phase IV and V (GAF-RE)

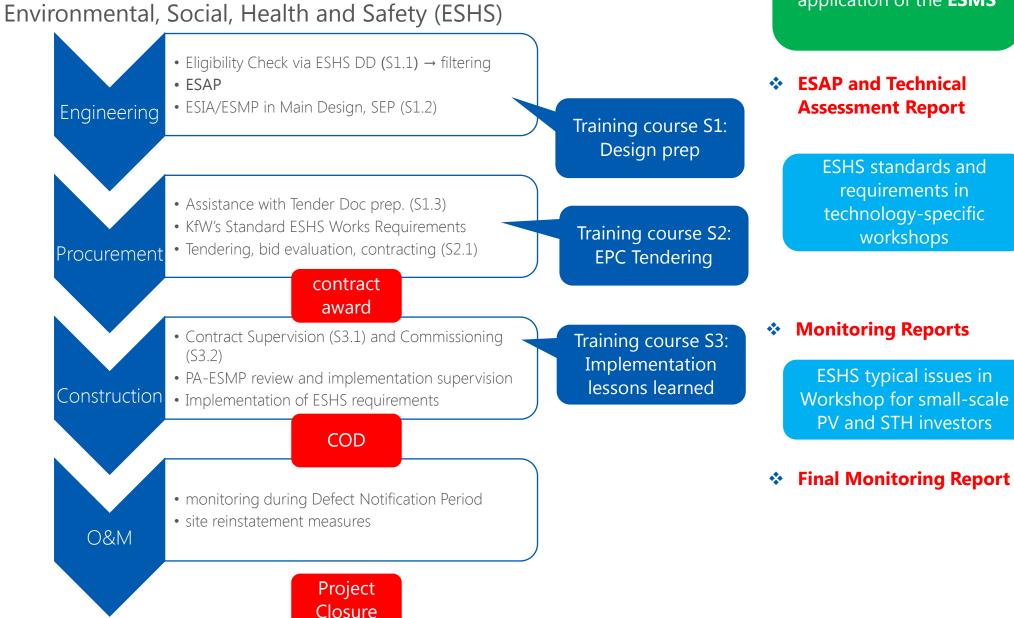
- Introduction to the Program (Phase IV and V)
  - technologies
  - small scale projects, large-scale projects
  - high priority of environmental, social, health and safety issues
- Breakdown and update of funding volumes
  - target investment and loan volumes, Phase IV and Phase V
  - status Phase IV, disbursed and remaining loan volume
- New two types of projects can be funded: new / under construction and built/operating projects
- Target LTVs for small- and large-scale projects and other financing details to be considered by Investors
- Introduction of the Program's Technical Consultant

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### 3 – Fichtner's Work Plan



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application of the **ESMS** 

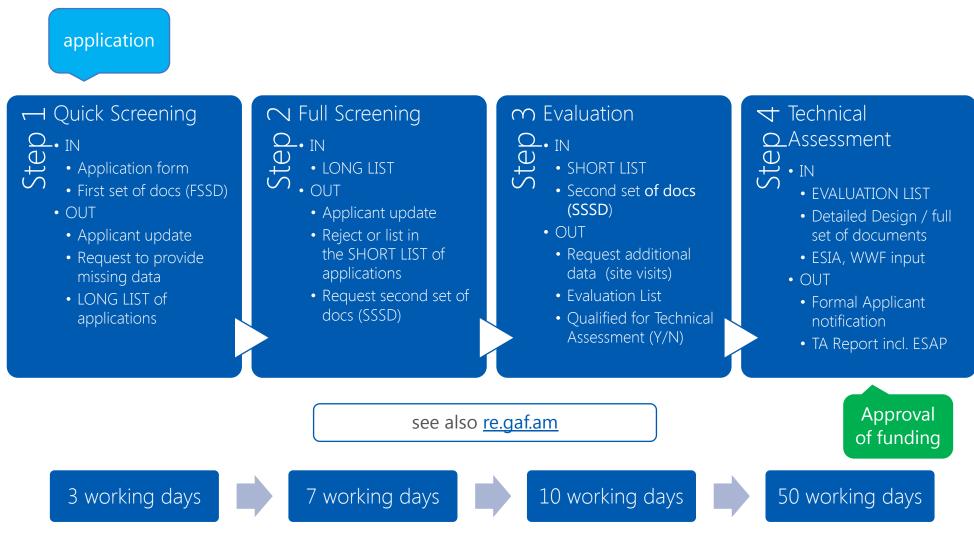
Promotion, advising and

monitoring the

FICHT#-7757S01

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Project Evaluation and Assessment Process



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### **Evaluation criteria**

Ν	Criteria	Weight	Comments
1	Category of a land plot before its usage for the purpose of a project (i.e.before the category of land plot was changed to "Energetic, transport, tele-communicational, public structure")	High	Preference is given to those projects thatare not located on former "agricultural", "settlement", "specially protected", "forestry", "water" and "reserved" lands
2	Location of the plant	High	Preference is given to projects located in underdeveloped and frontier communities
3	Expected (or actual) specific electricity generation (kWh/kWp)	Medium	Preference is given to the project with thehigher specific electricity generation
4	Loan to value ratio	Medium	Preference is given to the projects withthe lowest LTV ratio
5	Total installed peak capacity of theplant (MWp)	Low	Preference is given to the project with thehigher installed capacity
6	Advantage of the proposed technology	Low	Preference is given to the projects that apply advanced technologies resulting tohigher efficiency and generation (e.g. bi-facial, half-cut, single or double-axis trackers, etc.)
7	"One investor - one project" criteria (applied only in case of limited funds)	Low	Preference is given to projects submitted by new investors who have not yet applied for funding under the Programme Phase IV and V

### **Key documents**

- For Applicants' use and reference
  - FICHT-#17873238-v4-Application\_Form\_PV
  - Checklist of required documents for Technical Assessment
  - Minimum technical requirements PV plants GAF-RE IV incl. ESHS
- Fichtner's internal use
  - draft application procedure
- Loan disbursement
  - -<u>Technical Assessment Report</u>  $\rightarrow$  granting the loan
  - -<u>Monitoring Report</u> (3...4 per project)  $\rightarrow$  disbursements when payment milestones achieved
  - Final Monitoring Report  $\rightarrow$  last 10% of loan
- re.gaf.am

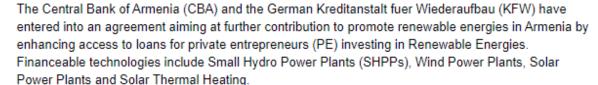
### Project website re.gaf.am





Home
About GAF
Organization
Project Cycle
Eligibility / Selection Criteria
Application
Technical Assistance
Contacts
Links
Downloads
Workshops & Seminars
Status of Registered Projects
Map of Financed Projects
Financed Projects
Partner Financial Institutions

#### **Development and Promotion of Renewable Energies**



We invite you to learn more about the GAF-RE Programme here on our website. If you have any questions about the facility, please contact the GAF-RE team.

To apply for funding and for detailed information on eligibility criteria, please refer to the Download section.

The application form and list of required documents for PV plants with an installed capacity of up to **5** MW is available in the Download section.

The presentation from the Workshops on Photovoltaic and Small Hydropower Plants on 28 and 29 June 2017 are available in the Download section.



Facility developed by



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Funded by



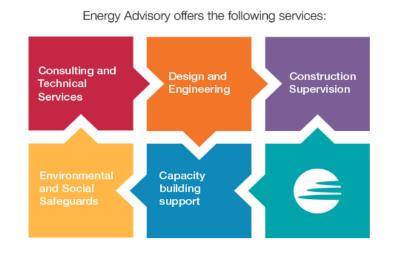
Consultant







EA Energy Advisory is an independent energy consulting company providing informational and advisory consulting services to energy market players, government institutions, donors such as International Financial Institutions (WB, ADB, KfW), power plant developers and other utilities. The company was established in 2005 as an Armenian private company of energy consultants and planners.



### AREAS OF EXPERTIZE

### **PROJECTS WITH FICHTNER**



Preparation of tender document for modernization of Hrazdan Thermal Power Plant Unit #5

#### Year: 2007

Client: ArmRusgazprom CJSC Funding agency: ArmRusgazprom CJSC Services: Data collection, support in preparation of procurement part of tender documentation as per Armenian legislation and technical part of tender documentation, namely electrical, civil, mechanical, SCADA and IT, including gas turbine



Environmental and Social Impact Assessment, HV-CS-2/2010 within Electricity Supply Reliability and Energy Efficiency Project

#### Year: 2007

Client: High-voltage Electrical Lines CJSC (HVEN) Funding agency: World Bank Services: Data collection, support in preparation of procurement part of tender documentation as per Armenian legislation and technical part of tender documentation, namely electrical, civil, mechanical, SCADA and IT, including gas turbine



Environmental and Social Impact Assessment (ESIA) Study for Rehabilitation of "Ashnak", "Yerevan TPP" substations, 220 kV "Lori" and 110 kV "Tumanyan-1, 2", "Lalvar" and "Noyemberyan" HVL

#### Year: 2014-2015

Client: High-voltage Electrical Lines CJSC (HVEN) Funding agency: World Bank Services: Support in preparation of Environmental and Social Impact assessment study report, organization of public hearings, assistance in project implementation



Preparation of the Environmental and Social Impact Assessment (ESIA) Report for the IWRM / Akhouryan River

#### Year: 2018-2019

Client: Water Sector Project Implementation Unit State Agency

Funding agency: KfW

Services: Support in preparation of Environmental and Social Impact assessment study report, preparation of Resettlement action plan, organization of public hearings, assistance in project implementation



# ARMENIA RENEWABLE RESOURCES AND ENERGY EFFICIENCY FUND



### FICHTNER

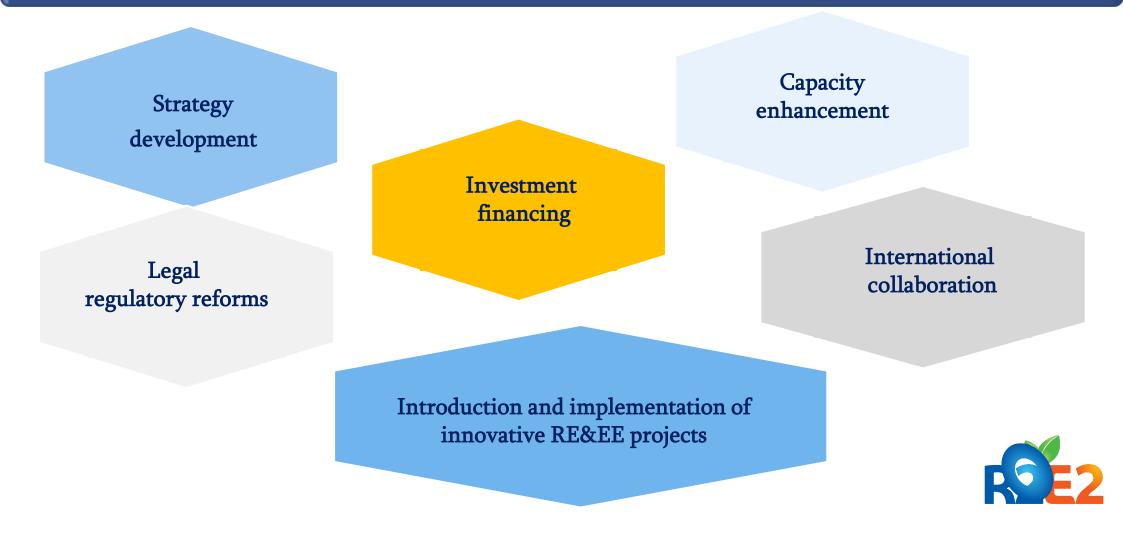
# ARMENIA RENEWABLE RESOURCES AND ENERGY EFFICIENCY (R2E2) FUND

R2E2 fund is an entity that creates a favorable environment for the development of renewable resources and energy efficiency sectors. **R2E2 Fund is founded by the Government of the RA in 2006.** 

- Main mission of the Fund is to:
- □ Facilitate investments in RE and EE sectors,
- □ Promote RE and EE market development,
- Contribute to Armenian's Energy Security,
- Organize on behalf of the Government implementation of credit and grant projects promoting the sector development.



### R2E2 FUND ACTIVITIES IN RE&EE SECTORS



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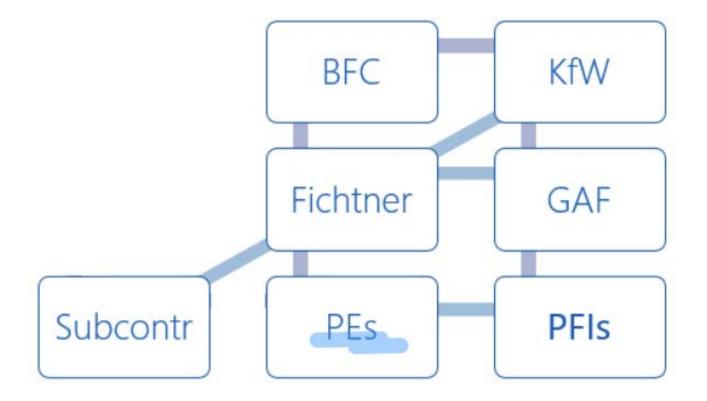
# PARTNERS



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### **Communication scheme**

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1	Short welcome address by KfW	
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### 4 – Investors' input and questions

### Training needs, questions and answers, discussion and conclusion

- Feedback and questions regarding the application process, monitoring and disbursement procedure, and Program in general
- Investors' requirements for training courses or workshops (capacity building needs)



Federal Ministry for Economic Cooperation and Development

# **FICHTNER**

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