Regional Validation Workshop on the CECECO

Iran’s Capabilities and Potentials in the Field of RE & EE

23 Jun. 2020, Iran- Tehran , on line session

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Outlines

• **Power & Energy Sector**
  - *Electricity Network*
  - *Renewable Energy and Energy Efficiency*

• **International Activities of MOE**
  - *Bilateral Governmental Common Commission*
  - *Hosting Regional Centers in field of Water and Energy*

• **Establishing GECI in cooperation with German Ministry (BMUB)**
Power & Energy Sector

- Power Generation capacity: 85000 MW
  (14th in the World, 9th at Thermal, the first in M.E.)

- Power Generation and consumption Growth Rate
  (Annually 5% since 1985)

- Power Generation without Fossil Fuels: 25% (80 x 10^9 kwh)

Power Loss: 9.76% (5% Reduced since 2015)

- Increasing RE capacity: 1000MW (2.5 times more than 2017)

- Rural Population without Electricity 0.3%
  (world wide: 21%, M.E.: 22%)
Power & Energy Sector

- High Educated Employee at MOE
  (including subsidiaries Company)

- Several Training and Research Affiliated Institutes

- Vast Experience on Energy Training for Regional Electrical Specialists:

  Training the Electrical Regional Market is assigned to Iran by ECO

- High Quality Goods and Prominent Manufacturers for Electricity and RE (Iran Electrical Syndicates including 400 members)
International Activities of MOE

- Iranian Head of more than 10 Bilateral Governmental Common Commission

(including Russia, Afghanistan, Tajikistan, Armenia, Germany, Syrilanka, Qatar, Slovenia, …)

- Hosting 2 Regional Centers in the field of Water and Energy

- **RCUWM** (The Regional Center on Urban Water Management)

- **ICQHS** (Intl. Center on Qantas and Historic Hydraulic Structures)
International Centers Hosted by Iran

10TH RCUWM GOVERNING BOARD MEETING

ECO
GWP
ISDB
UNESCO
UNITAR
UN-RC
SDC

Iran
Afghanistan
Armenia
Azerbaijan
Bangladesh
Egypt
Germany
India
Iraq
Lebanon
Oman
Pakistan
Qatar
Sri Lanka
Syria
Tajikistan
Turkey
Turkmenistan
Uzbekistan
International Center on Qanats and Historical Structures
(UNESCO-ICQHS)
The Sixth Session of Board of Governors of ICQHS, 2016
Green Energy Center of Iran (GECI)

- A joint project between MOE-Iran and BMUB-Germany under the Intl. Climate Initiative (IKI) on Synergies between RE & EE

  Financed by German side,

- Phase I (2017-2020):

  * Academic cooperation (4 symposium)
  * Providing Technical Trainings (8 training)
  * Establishment of GECI
Green Energy Center of Iran (GECI)

- Phase II (2020-2025)

GECI Fields of Action:

- Business to Business Cooperation (B2B): IRENA, ESCOs
- Accelerator in the Field of RE & EE and Synergy between RE & EE: ISTI—Vice Presidency Science & Technology
- A Think Tank in the Field of RE & EE Communication and Public Awareness Raising: NRI
- Research Application and Academic Cooperation in Energy Sector: KNTU
- Education and Capacity Building: TVTO
Policy Making Council:

MOE (Ministry of Energy, International Affairs)
NRI (Niroo Research Institute, Ministry of Energy)
PBO (Planning and Budget Organization, Bureau of Energy)
IFCO (Iran Fuel Conservation Company, Ministry of Oil)
Representative of the Private Sector

Steering Committee:

MOE (Ministry of Energy, International Affairs, Power and Energy Affairs)
NRI (Niroo Research Institute, Ministry of Energy)
MSRT (Ministry of Science, Research and Technology)
PHO (Plan and Budget Organization, Bureau of Energy)
Iran's TVTO (Iran's Technical and Vocational Training Organization)
IFCO (Iran Fuel Conservation Company, Ministry of Oil)
MRUD (Ministry of Roads and Urban Development)
Private Sector RE and EE
Case-based Representative from concerned organizations and NGOs

Think Task (1.1)
NRI
(Niroo Research Institute, Ministry of Energy)

Education (2.2)
Iran's TVTO
(Iran's Technical and Vocational Training Organization)

Research (2.3)
Ministry of Science, Research and Technology
(Selected University: K.N. Toosi University)

Accelerator (2.4)
Vice Presidency for Science and Technology
in the following two separate areas

Business to Business (2.5)
Private Sector
in the following two separate areas

1. With the purpose of consolidating policies and planning of GEIC, membership of the GEIC Policy Making Council shall be appointed by the Head of Council for a five-year period (staff members) and a three-year period (guest members).

2. Synergy between RE & EE, with emphasis on energy efficiency (EE) shall be set as the major policy of the Center.

3. In view of the valuable participation in making GEIC business plan, experiences and efficiencies of the K.N. Toosi University, this university viewed as the selected university.

* shall be appointed with the approval by the steering committee

* at the Fiscal Point

Fig. 1- Flowchart GEIC Structure