

# ETRC



# TVET CENTER

## ENERGY TRAINING AND RESEARCH CENTER (ETRC) (working for Energy Transition in Pakistan)



*Equal Opportunity Environment*

**ENERGY TRAINING  
CONTINUOUS SKILL DEVELOPMENT PROGRAMS  
RESEARCH ON ENERGY POLICY, REGULATIONS AND QUALITY**

Energy Training and Research Center  
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## **WELCOME**

**From Principal Trainer and CEO  
Engr. Faiz M Bhutta**

Greetings from Energy Training and Research Center.

Continuous mis-management in Energy sector has created hurdles in the progress of the Country. The only solution left is to make energy transition quick toward Green and Clean Energy.

Continuous rising demand of energy because of rising urbanization and population, the role of green and clean energy share in energy mix has become imperative to bring affordable and reliable energy for the consumers of this country.

The aggressive targets by Government to add green and clean energy share in energy mix has created a large gap between the demand and supply of skilled and qualified workforce in energy and power sector which requires energy training centers and institutions to bridge this gaps.

Energy Training and Research Center (ETRC) has been created by the merger of already established Energy Training Center and PRENAC (Renewable Academy) by adding one more area of research to have complete energy portfolio of services.

ETRC has qualified faculty and state of art Lab and workshop for testing and training of Energy Systems. I am master trainer from GIZ Pakistan, Resource person on CPD on Renewable Energy Courses by Pakistan Engineering Council. I am TOT on Solar Energy from RENAC (Renewable Academy Berlin Germany), TOT on Micro and Mini Hydro (MHP) from HNAC/UNIDO Changsha China, TOT on Energy Management by International Energy Training Center/UNIDO Pakistan, TOT on Solar Pumping from Lorentz Germany and got many training in Pakistan and Abroad. I am trainer, speaker and consultant and trained about more than 3000 persons in Solar, Micro-hydro and Energy Management subjects.

ETRC is Licensed Professional Engineering Body by Pakistan Engineering Council for CPD Courses and also approved training center by AEE USA.

We welcome all engineers, managers, Supervisors and support staff to attend training Courses for improvement of Energy related skills to bring superior performance in their work.

Wishing you success in your career.

Engr. Faiz Bhutta  
Principal Trainer and CEO  
Energy Training and Research Center (ETRC)  
Lahore, Pakistan

## BOARD OF DIRECTORS



**Masroor A Khan**  
**Chairman BOD**

## Board Members



Engr. Faiz Bhutta



Moiz A Khan



Wazir Ali Khna



Komal Faiz



Yousaf Khan

## ETRC FACULTY MEMBERS

### **Engr. Faiz Muhammad Bhutta - Principal Trainer**

Faiz Mohammad Bhutta is a PEC registered Professional Engineer in Electrical plus MBA & MS. He has done post Graduate Diploma in Telecommunication from COMSAT. He has more than 30 years of experience of working in the areas of Industrial Automation, Solar Energy Technologies, Water Pumping and Solar Pumping Technologies, Solar Lighting, Mini and Micro Hydro power plants and Energy Management. He has trained so far more than 2500 persons on Solar, MHP and Energy Management.

He served at managerial posts at various National and Multinational organizations like ZELIN, INTECH, SOPHA, GRUNDFOS, COMSATS and IZHAR Group etc and now running his own firm Techfa Consulting.

He has got first training from Germany on CNC Machines in 1981 and started his career as CNC Engineer. He got training from RENAC Berlin on Design and Installation of Solar Energy Systems and he got GIZ training in Pakistan for design and installation of Solar PV and Solar Thermal Systems. He is TOT on Energy Management from UNIDO. He got training from HNAC China on Mini and Micro Hyrdo Power Plants. He is master trainer on Solar Energy from GIZ Pakistan and resource person of Pakistan Engineering Council on Renewable Energy. He is trainer in solar, MHP , Energy and Business Management. He is TOT on Energy Management from UNIDO ( international Energy Center)

He has designed and installed various Energy related Systems and also implemented Energy Efficiency Improvement plans in Industries and Buildings.

He is member of organizations namely International Solar Society Germany (ISES), Member AEE Global, Life member PEC , Life Member of HVACR Society, Life Member of IEP, Life member of IEEEEP and member of MAP and PGBC.

### **Engr. Masroor A Khan - Innovation and Entrepreneurship Expert**

Masroor A khan is an Engineer and Entrepreneur having more than 40 years experience of running the manufacturing entity named Syed Bhai Pvt Ltd. He has done MS in Electrical Engineering from Cornell University USA.

### **Engr. Ehtisham ur Rehman - Lab and Research Engineer**

He has done BSC in Electrical and has more than 02 years' experience of design, installation and commissioning of Solar systems. He will conduct hands-on workshops and practicals.

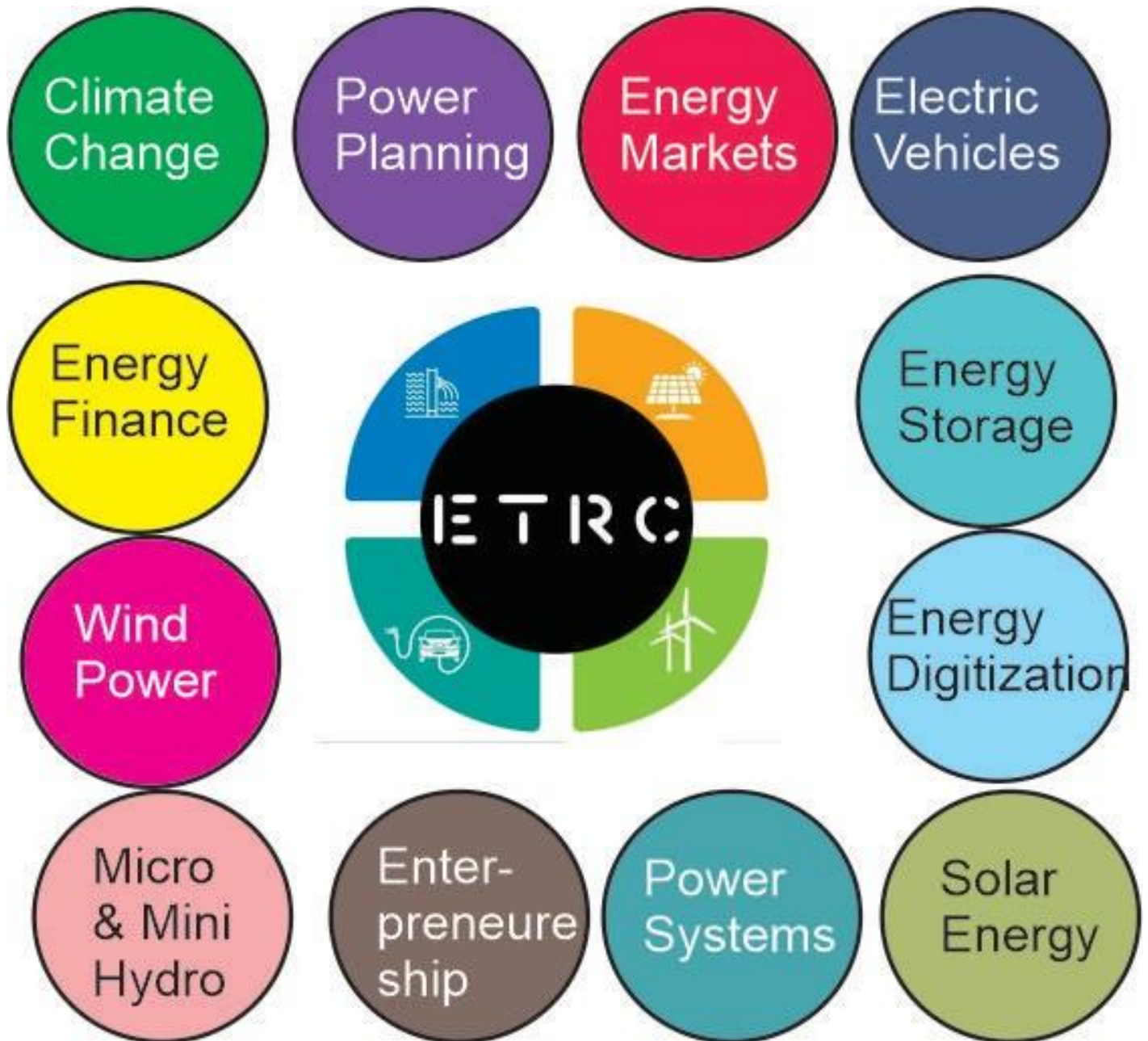
### **Komal Faiz - Strategist and Innovation Expert**

Komal Faiz has done Masters in Strategic Foresight and Innovation from Ontario College of Arts and Design University (OCADU) Canada. She is business strategist and Innovation Expert.

## **VISITING EXPERIENCED TRAINERS FROM INDUSTRIES IN POWER AND ENERGY**

1. Engr. Syed Abrar Ali - Electrical Engineer having more than 40 years of experience in Power system Design, Substation design, Transmission system design, Power Quality and Power Planning.
2. Engr. Shahid Hussain Jafri -Ms in Electrical Engineering with experience of more than 35 years in Quality Management.
3. Engr. Salis Usman - Electrical Engineer having more than 30 years experience in Power System Planning.
4. Engr. Akram Sadiq - Electrical Engineer having more than 20 years experience in Process Automation and Controls.
5. Engr. Muhammad Amjad - Electrical engineer having experience of mor than 30 years in Power Cable Manufacturing.
6. Engr. Sardar Fahad - Mechanical Engineer having more than 10 years experience of Micro and Mini Hydro Power Systems.
7. Engr. Usama Shahid - MS in Electrical Engineer having more than 12 years experience in Switchgears.
8. Engr. Manzar Qureshi - Electrical Engineer having more than 30 years experience in Power Planning and Finance.

# COURSES AREAS



Each Course details is displayed on website from where the candidates secure online admissions.

# INTERNATIONAL ACCREDITATION CERTIFICATES

Four Certifications issued under Accreditation  
Of ETRC by Traccert Canada vide ref#TR415324

- Certified Solar Technician (CST)
- Certified Solar Engineer (CSE)
- Certified Solar Manager (CSM)
- Certified Solar Professional (CSP)



# SERVICES PORTFOLIO

- **Online Training**
- **Inperson Training**
- **Repair and Maintenance**
- **Re-installation and Re-Powering of Solar PV Systems**
- **Service Contracts for solar PV systems**
- **Energy Performance and Evaluation of Solar PV systems**
- **Research**

ETRC conducts research in the following areas,

1. Energy Policy
2. Energy Regulations
3. Energy standards and Quality
4. Energy Interconnections and Integration
5. Energy Markets
6. Modern Energy Technologies



## MAJOR SPONSORED TRAINING PROJECTS



1. One Day Training to 75 Engineers from AEDB registered companies on Solar PV System Designing through PV syst Software sponsored by GIZ Pak German Cooperation in three batches each of 25 participants (First batch - Nov 30, 2023 , Second Batch – December 20, 2023, Third Batch – December 27, 2023)
2. One day CPD Course on New technology Trends - HJT Era sponsored by Huawun China. (October 14, 2023)
3. One day Training on solar PV system fundamentals to 100 Women Engineers sponsored by ETRC. (September 23, 2023)
4. Training to 50 Women on Operation and Maintenance of Solar PV systems sponsored by Asian Development Bank in collaboration with Elan Partners and Integration GmbH in two batches each of 25 Women (First batch - Sept 28 - 30 , 2023 , Second Batch - August 21-27, 2023)
5. Two days Training on Solar PPAs for Public Enterprises sponsored by PFAN/UNIDO/REEEP at Avari, Lahore, Pakistan ( March 02-03, 2023)
6. 20 Days Training on Power Grid Operations and Controls sponsored by AIT Bangkok at Wapda Auditorium, Islamabad, Pakistan ( November 2022)
7. Two Months hands-ON training on Solar PV Design, Installation and Performance to BTECH and DAE Passed students sponsored by LONGi China ( September 19 to October 18, 2023)
8. . Operation and Maintenance (O&M) Training to communities from South Punjab sponsored by GIZ/INTEGRATION GmbH at TEVTA Bahawalpur ( December 07-08, 2023)
9. Operation and Maintenance (O&M) Training to communities from South Punjab sponsored by GIZ/ INTEGRATION GmbH at TEVTA KPK ( October 26-28, 2023)

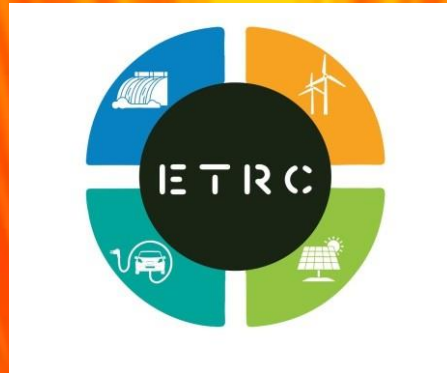
### REGULAR TRAINING AT ETRC

ETRC regular Training courses are displayed at its website and admissions are done on line.

**ETRC has trained so far more than 5000 person from 2015 to 2024 so far**







# ENERGY

**TRAINING**

**RESEARCH**

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