



Faramarz Ghelichi

Email Address: Ghelichi.Faramarz@monenco.com

Professional Experiences:

- _ **Monenco Iran** Consulting Engineers Co, Transmission and Distribution Director,
2015 – Present
- _ **Monenco Consulting Engineers**; Member of the board
- _ **Monenco Consulting Engineers** [Muscat - Sultanate of Oman], Managing Director
April 2013 – 2015
- _ **Monenco Iran** Consulting Engineers Co, Transmission and Dispatching Director,
2007 to April 2013.

T&D Division includes 6 Departments:

١. Transmission Lines and Distribution Networks

Important Topics of Projects:

- 4600 km 765 kV Transmission Lines in Nigeria
- Assaluye-Isfahan 765 kV Transmission Line (710 km)
- Golpaygan – Semnan +/- 500 kV HVDC Transmission Line (600 km)
- Assaluye – Fasa 400 kV Transmission Line (260 km)
- Heris – Megri 400 kV Transmission Line (105 km)
- Karkhe – Alemare 400 kV Transmission Line (80 km)
- Bisotoon – Eslamabad-Khosravi 400 kV Transmission Line (180 km)
- Karoun3-South Isfahan - Tiran 400kV Transmission Line (351 km)
- Semnan - Jalal 400 kV Transmission Line (170 km)
- Kerman – Bam 400 kV 400 kV Transmission Line (210 km)
- Masjed Soleyman-Ahvaz 400 kV Transmission Line (130 km)
- Golpayegan-Godarlander-Daran 400 kV Transmission Line (2 km)

٢. High and Medium Voltage Sub-Station

Important Topics of Projects:

- Yazdii Power Plant 400kV Substation
- Sabzevar Power Plant 400kV Substation
- Behbahan Power Plant 400kV DCS Substation

- Mahshahr Power Plant 400kV Substation
- South P.P. Isfahan 400 KV DCS Substation
- Bam 400/132/20 kV DCS Substation
- Shahmaran 400/132/20 KV DCS Substation
- Faradonbeh 400/63 kV DCS Substation
- Harand 400/63 kV DCS Substation
- Hosnijeh 400/63 kV DCS Substation
- Lordegan & Shahrkordan 400/63 kV DCS Substation
- Mobarakeh 400kV Substation
- Bafgh Steel 400/33 KV DCS Substation
- Sardrood 230/132 Substation
- Shafa 230/132 kV Substation
- Naghshe Jahan 230/63 kV Substation
- Ravand 230/63 kV Substation
- 40 Shahid Amol 230/63 kV Substation
- Dehloran 230/63 kV Substation
- Noshahr 230/63 kV Substation
- Mobin 132/20kV GIS & DCS Substations
- Consultancy Services & Engineering Study For 132 KV Substation In Sadin Region
- Jask 230/63/20 kV GIS & DCS Substation
- Besat 230/63 kV Substation
- Damavand 230kV GIS & DCS Substation
- Upgrading Of 132/33 kV Akhtar Substation (15&16 Utility Of South Pars)
- Al Kamel And Al Wafi 132/33 kV DCS Substations (Sultanate Of Oman)
- Madinat Nizwa 132/33 kV DCS Substations (Sultanate Of Oman)
- Engineering Services For Implementation Of 132kV Network Reinforcement Work , 33kV Capacity Expansion Works And Transmission & Distribution System Improvement Works (Dhofar Region , Sultanate Of Oman)
- Engineering Service & Construction Supervision On Semnan & Golpaygan +/- 500 kV HVDC Convertors Substations
- Consultancy Services For Electrification Of Roshd Oil Field (Substation Part)
- Consultancy Services For 11 substations 765/330 kV Super Gird In Nigeria
- More Than 13000 MVA Substation In 132 And 63 kV Levels

۳. Dispatching and Automation

Important Topics of Projects:

- Engineering and design services for Iranian National Main and Backup SCADA/EMS Centers
- Consultancy services for Master Plan development of TREC Dispatching system
- Engineering and design services for SCADA system of Tehran Subway Line 5
- Consultancy Services for EPC Project of SCADA and Communication Systems of Lane 1 of Tabriz Metro
- RDC SCADA Control Centers in Qazvin and Zanjan
- Design & document preparation of Distribution Automation for Tehran.



- TEHRAN Regional Dispatching Control Centers
- AOC & RDC Control Centers in Tabriz
- Engineering and design services for renewing Tehran Area operating control center
- Consultancy Services for RDC dispatching system in Yazd.

۴. Telecommunication

Important Topics of Projects:

- FTTH Consultancy services for Iran's 4th telecommunication operator
- Telecommunication and SCADA systems of Iran's 6th and 7th Gas pipeline
- Iran power grid optical telecommunication network
- Tehran Traffic Control Company (TTCC) optical fiber and CCTV network
- Design of Iran Advanced Metering Infrastructure (AMI) and preparing national Smart Meter specification
- Supervision on first phase of Iran Advanced Metering Infrastructure (FAHAM project)
- Comprehensive ICT plan for Tehran Regional Electric Company (TREC)
- Telecommunication system of Tehran Gas Company
- Telecommunication infrastructure of IKIA Airport

۵. Network Study and Analysis

Important Topics of Projects:

- Comprehensive Study of Power Supply for Imam Khomeini Airport (IKIA)
- Comprehensive Study of Power Supply for Persian Gulf & Mining Industrial Special Zone (PGMISEZ)
- Supervision Services of Kerman & Sistan Projects-3th Phase-Substation
- Consultancy services for Touga relays coordination and system study
- Comprehensive Study of Power Supply for Persian Gulf Mining & Metal Industrial Special Economic Zone Co.
- Feasibility Study and Project Engineering for Electrical Master Plan of Imam Airport
- Technical and Financial Study for Purchasing Distribution Companies
- System Study and Master Plan of Tehran Distribution Network
- Master Plan of Yazd Distribution Network

۶. Civil and Structures

Important Topics of Projects:

- Engineering services and supervision of architectural and civil works, perway and specific installations and equipment of 2nd operational phase of lane No. 1 of Shiraz urban railway
- Engineering Service & Supervision on construction of Mapna College ,Laboratories & Accommodation Building
- Engineering Services for Construction of Khuzestan Dispatching Center
- Engineering Service & Supervision on construction of Pars Generator factory with cranes which are 800ton and 60ton capacity
- Engineering Service & Supervision on construction of Mapna Archiving & Secondary Buildings
- Engineering Service for construction of GVPI factory

- _ **Monenco Iran Consulting Engineers Co, Transmission Lines & Distribution Networks Department Manager, 2001- 2007.**
 - More than 2500 Km Transmission Lines in 400, 230, 132 , and 63 kV levels in Regional Electricity Companies in Iran
 - More than 8500 Km OPGW installation on Transmission Lines in Regional Electricity Companies in Iran
 - Gilan Regional Electricity Company Network Study
 - Gharb Regional Electricity Company Network Study

- _ **Monenco Iran Consulting Engineers Co, Project Manager, 1999-2001.**

- _ **Monenco Iran Consulting Engineers Co, Project Technical Engineer and Designer, 1997-1999.**

- _ **Moshanir Power Consulting Engineers Co, Site Manager of Khuzestan Water & Power Authority (KWPA),1994-1997.**

- _ **Moshanir Power Consulting Engineers Co, Site Manager of Iran Power Company (IPC) and Bakhtar Regional Electric Company (BREC), 1993.**

- _ **Moshanir Power Consulting Engineers Co, Project Technical Engineer, 1992.**

- _ **Iranian Army Organization, Project Engineer and Superintendent for Electrical Industry Projects, 1990 -1992.**

Expertise Fields:

- _ Transmission Lines and HV Sub-Stations Analysis and Designer.
- _ Insulation coordination.
- _ Optical Wire for connecting Power Sub-Stations and Installation on Overhead lines

Skills:

- _ Developing up to :
 - 36 Modules Transmission Lines Design, including **DTLP** software.

DTLP: Design Transmission Lines Program.

- 8 Modules in sub-station design including **SCAD** software.

SCAD: Sub-station Computer Aided Design.

- Designing and Analyzing Transmission networks with software, i.e. BPA, DTLP, and SCAD.

PAPER PUBLICATION:

- ۱- **F.GHELICHI, S.KHALAJ;**"Decreasing the second order right of way of transmission lines"; 2nd Seminar On Power Transmission Lines ; 4th Seminar On Power Transmission Lines , Feb. 2003.
- ۲- **F.GHELICHI, S.NOURIZADEH, S.KHALAJ;**" Optical Ground Wire; design and operation"; Accepted in Dec. 2008, Journal of Electric Industry.
- ۳- **F.GHELICHI, S.NOURIZADEH;**" High speed electric railway development all around the world"; Accepted in May. 2008, Journal of Transportation & Development.
- ۴- **F.GHELICHI, S.NOURIZADEH;**"Application of high capacity conductors for power system reliability enhancement", 23rd Power System Conference / PSC 2008.
- ۵- **S.NOURIZADEH, F.GHELICHI, S.KHALAJ ;**"Analyzing Tower footing resistance effects on transmission lines insulation coordination " ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb .2009.
- ۶- **F.GHELICHI, S.NOURIZADEH, S.KHALAJ ;**"LiDAR applications for the existing transmission lines; sag monitoring " ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb .2009.
- ۷- **S.NOURIZADEH, F.GHELICHI, S.KHALAJ, P.REZAEI;**" Transmission line De-Icing and Anti-Icing " ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb .2009.
- ۸- **S.NOURIZADEH, F.GHELICHI, S.KHALAJ, P.REZAEI;**"Multiple Circuit transmission lines back flash over analysis " ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb .2009.
- ۹- **S.NOURIZADEH, F.GHELICHI, S.KHALAJ ;**" Analyzing Tower footing resistance effects on transmission lines back flash over" ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb. 2009.

- ۱۰- S.NOURIZADEH, F.GHELICHI, S.KHALAJ " Comparison of HVDC and HVAC for power transmission " ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb. 2009.
- ۱۱- F.GHELICHI, H.JAVADI, A.MOBARHANI ;" Voltage gradient in porcelain insulators" ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb. 2009.
- ۱۲- M.FATAHPOUR, F.GHELICHI ;"Mechanical Load Limiters for Transmission Lines " ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb. 2009.
- ۱۳- I.BANIMOSTAFA ARAB, F.GHELICHI, M.ABDOLHOSSEINPOUR;" Transmission line design loading, upgrading the current practice" ; 10th Seminar On Power Transmission Lines & The 7th Seminar On Insulators , Feb. 2009.
- ۱۴- S.NOURIZADEH, F.GHELICHI, S.KHALAJ ;" Dynamic Ratings of transmission lines" ; 11th Seminar On Power Transmission Lines & The 8th Seminar On Insulators , Feb. 2010.
- ۱۵- A.MAANI ,F.GHELICHI, A.M.RANJBAR ;" Transmission line transposition effects on voltage imbalance"; 11th Seminar On Power Transmission Lines & The 8th Seminar On Insulators , Feb. 2010.
- ۱۶- A.MAANI, F.GHELICHI, S.KHALAJ, M.ROUSTAEI ;"Analyzing the least required current for transmission line De-Icing and Anti-Icing"; 11th Seminar On Power Transmission Lines & The 8th Seminar On Insulators , Feb. 2010.
- ۱۷- M.H.MEHDINIA, F.GHELICHI;" Automatic Sag mitigation in Transmission Lines " ; 11th Seminar on Power Transmission Lines & The 8th Seminar On Insulators, Feb. 2010.
- ۱۸- D.MORADI, F.GHELICHI, S.KHALAJ;" Sample Test improvement of Composite Insulators " ; 11th Seminar On Power Transmission Lines & The 8th Seminar On Insulators , Feb. 2010.
- ۱۹- A.MAANI, F.GHELICHI, S.HABIBZADEH ;" Analyzing Tower structure effects on electrical fields of transmission lines"; 11th Seminar On Power Transmission Lines & The 8th Seminar On Insulators , Feb. 2010.
- ۲۰- S.NOURIZADEH, F.GHELICHI, A.RAHMANI;"Emergency repair system for transmission lines"; 11th Seminar On Power Transmission Lines & The 8th Seminar On Insulators, Feb. 2010.

- ۲۱- S.KHALAJ, F.GHELICHI, A.TAHERINIA;"Improve power quality by using proportion equipment"; Kuwait Electricity Conference & Exhibition, March 2010.
- ۲۲- S.KHALAJ, F.GHELICHI, M.FATAHPOUR;" Huge Tubular Tower"; Kuwait Electricity Conference & Exhibition, March 2010.
- ۲۳- S.KHALAJ, F.GHELICHI, A.MAANI, M.BAHADORI;" Measurement Units Optimal placement in atomized electricity distribution networks"; 15th Electrical Power Distribution Conference / EPDC 15, April 2010.
- ۲۴- S.KHALAJ, F.GHELICHI, A.MAANI;" Economic Evaluation of low power lamps"; 15th Electrical Power Distribution Conference / EPDC 15, April 2010.
- ۲۵- F.GHELICHI, A.MAANI;" Reverse engineering for analyzing the most critical equipment from reliability point of view "; 15th Electrical Power Distribution Conference / EPDC 15, April 2010.
- ۲۶- F.GHELICHI, A.MAANI, A.M.RANJBAR;" Loss valuation in electricity distribution networks"; 15th Electrical Power Distribution Conference / EPDC 15th April 2010.
- ۲۷- F.GHELICHI, S.KHALAJ, A.MAANI;"Distribution Networks Critical Components Detection in Reliability Viewpoint", 1st Iranian Conference on Smart Grid, Oct. 2010.
- ۲۸- S.KHALAJ, F.GHELICHI, A.MAANI;"Distributed Generation Penetration Level Influence on Distribution Networks Loss Cost"; IEEE International Energy Conference & Exhibition, December 2010.
- ۲۹- S.KHALAJ, F.GHELICHI, A.MAANI, A.RAHMANI ;" Transmission Lines Loss Influence On Environment Emission"; 12th Seminar On Power Transmission Lines & The 9th Seminar On Insulators , Feb. 2011.
- ۳۰- V.YARI, F.GHELICHI, A.HODAEI ;" Insulators Voltage Distribution, Study On 765 kV Transmission Lines "; 12th Seminar On Power Transmission Lines & The 9th Seminar On Insulators , Feb. 2011.
- ۳۱- F.GHELICHI, I.BANIMOSTAFA, A.MAANI " Transmission Lines Reliability Cost/Worth, Most Economic Return Period Evaluation "; 12th Seminar On Power Transmission Lines & The 9th Seminar On Insulators , Feb. 2011.
- ۳۲- S.KHALAJ, F.GHELICHI, A.MAANI, V.YARI ;" Transmission Lines Switching Overvoltage, Study On 765 kV Transmission Lines"; 12th Seminar On Power Transmission Lines & The 9th Seminar On Insulators , Feb. 2011



موننکو ایران
Monenco Iran

۳۳- **F.GHELICHI**, H.GOUDARZI , V.YARI ;" Introduction To VSC, Novel Solution For HVDC Systems"; 12th Seminar On Power Transmission Lines & The 9th Seminar On Insulators , Feb. 2011

۳۴- **F.GHELICHI**, A.MAANI ;" - 765 kV Transmission Lines Security Constrained Capability Evaluation"; 12th Seminar On Power Transmission Lines & The 9th Seminar On Insulators , Feb. 2011.

۳۵- Esmail Ebrahimi, Masoud Abdolhosseinpour, **Faramarz Ghelichi**; “GUI Based Optimal Drumming Algorithm for OPGW Cable”; Universal Journal of Electrical and Electronic Engineering – Vol 1 – No. 1 – June 2013.