

Transmission
System
Studies



Generation to Transmission to Distribution, We have it covered

WHO WE ARE?

POWER-tek has 24 years of successful business history in power system engineering and smart grid projects. For over 275+ customers in four continents and over 20 countries, **POWER-tek** has successfully delivered power system engineering solutions. **POWER-tek** customers include large independent system operators, transmission companies, distribution companies, oil and gas companies, government agencies, commercial banks, international development agencies, construction and consulting companies, large industries, and power project developers. Over 75% annual revenue for past many years from repeat customers proves strong customer trust for **POWER-tek**.

24
Years of Customer Satisfaction

Projects Delivery in
4
Continents

275+
Customers Worldwide

75%
Revenue from Repeat Customers

REPRESENTATIVE PROJECTS



Power system planning studies for a large number of generation requests including 1,483MW Natural gas power plants Lackawanna and many large size generation addition

PJM Interconnections LLC, USA



Preparation of Regional Transmission Grid Plan for Gilgit Baltistan Area for over 5000MW hydro generation additions and network development to year 2035

National Transmission and Despatch Company, Pakistan



Voltage Control Study, Reactive power studies, - Transmission system planning upto year 2027 * 9 Middle East states Interconnections

Gulf Cooperation Council Interconnection Authority Saudi Arabia



Bulk power system reliability criteria and the IESO-administered market rules, Assessing long-term and short term transmission plans

Independent Electricity System Operator, Ontario, Canada



System impact studies of 5,400MW Dasu HPP including 12,861MW HPPs, 765kV power transmission study, ranking of HVAC (765kV & 500kV) and HVDC alternatives for bulk power transmission

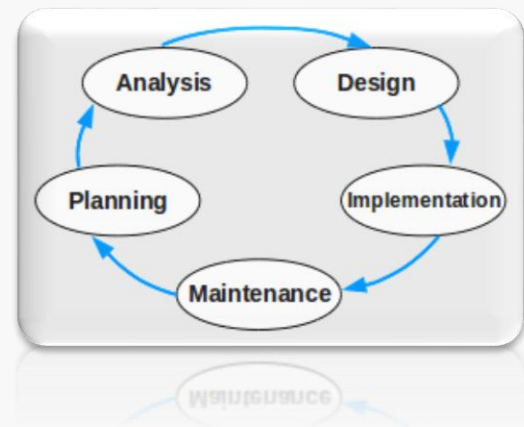
Korean Electric Power Corporation, South Korea/ National Transmission and Despatch Company, Pakistan

POWER-tek's GLOBAL REACH



OUR SERVICES

A combination of strong analytical expertise and life time hands on practical field experience of power systems is differentiating aspect of POWER-tek services. These services cover various aspects of power systems engineering that include planning, analysis, design and operations, preparation of bid documents and bid evaluation, contract award and project management. POWER-tek has established a reputation for quality and innovative approaches in the following areas, where it has successfully provided services globally in the past 24 years:



- Generation interconnection impact assessment
- Smart grid applications and solutions development
- Distributed generation planning
- Bulk transmission system planning studies
- Load flow, short circuit, stability studies
- HVDC and FACTS applications studies
- Power system event analysis and solutions
- Switching transients and insulation coordination studies
- Voltage and reactive power studies
- NERC compliance – assessments and audits
- Short term operations planning
- Real-Time control room operations
- Small signal stability and stabilizer applications
- Staff augmentation services

OUR SAMPLE VALUABLE CUSTOMERS/ Solutions Provided for

 USA www.spp.org	 USA www.pjm.com	 Canada www.ieso.ca	 Saudi Arabia www.gccia.com.sa	 USA www.tva.gov	
 Canada www.bchydro.com	 USA www.gatrans.com	 Malaysia www.tnb.com.my	 South Korea www.kepcoco.kr	 Canada www.hydraoone.co	
 Germany www.giz.de	 USA www.cooperativeenergy.com	 USA caec.coop	 USA www.atcllc.com	 Pakistan www.ntdc.com.pk	
Saudi Arabia www.gccia.com.sa 	 Electricity & Water Authority Kingdom of Bahrain	 الشركة السعودية للكهرباء Saudi Electricity Company Engineering Energy	USA www.spp.org 	 Power at the speed of life.	 Nebraska Public Power District Always there when you need us
	 EMW Water & Electricity Authority	 EMW POWER AND WATER COMPANY		 western farmers electric cooperative A Tennessee Rural Cooperative	 Midwest Energy, Inc.
	 KAPPA Water & Electricity Authority	 KAPPA Water & Electricity Authority			
USA www.pjm.com 	 AMERICAN ELECTRIC POWER	 Dominion	 FirstEnergy	 amec	 PECO An Exelon Company
	 Jersey Central Power & Light A FirstEnergy Company	 ComEd An Exelon Company	 Penelec A FirstEnergy Company	 DP&L	 Ohio Edison A FirstEnergy Company
	 BGE	 PSEG	 ppl	 Westar Energy	 DUKE ENERGY