



Utility-Scale Solar Farm Engineering

End-to-End Power Engineering Solutions

Keentel Engineering delivers complete **electrical and power engineering services** for utility-scale solar farms. With 30+ years of industry expertise, we provide **design, compliance, and interconnection support** to ensure your solar project is efficient, reliable, and grid-ready.

Our Solar Engineering Services



Feasibility & Planning

- Site evaluation & conceptual layouts
- Load flow, short-circuit, and stability studies
- Cost estimation & constructability reviews



Detailed Electrical Design

- Medium-voltage (MV) and high-voltage (HV) collector system design
- Substation & POI (Point of Interconnection) engineering
- Equipment sizing: inverters, transformers, switchgear
- Protection & control (P&C) system design
- SCADA integration and communication systems



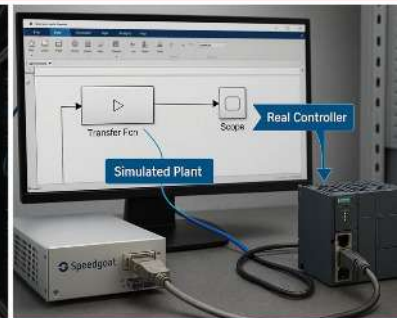
Compliance & Grid Integration

- NERC, IEEE, IEC, and NEC code compliance
- RTO/ISO interconnection studies (ERCOT, CAISO, PJM, SPP)
- Dynamic modeling and validation (PSSE, PSCAD, ETAP, PowerFactory)



Construction & Commissioning Support

- IFC drawings and contractor coordination
- Factory Acceptance Testing (FAT) & Site Acceptance Testing (SAT)
- Energization support & as-built documentation



Why Choose Keentel Engineering?



30+ years of proven engineering excellence



Specialized in renewable integration and grid interconnection



Advanced tools: ETAP, PSSE, PSCAD, PLS-CADD, Power Factory



Trusted partner for developers, utilities, and EPC