



RENEWABLE ENERGY

EGESIM & ATLAS COPCO have combined their Expertise, Technologies and Innovations to provide the most efficient and productive solution for the Geothermal Power Companies. **ATLAS COPCO's** Organic Rankine Cycle (ORC) optimization and state of the art Inflow Radial Turbine Technology with variable Inlet Guide Vanes complemented by **EGESIM**, the famous Automation Solutions to provide the most productive solution to Geothermal Power Plants (GPP).

EGESIM provides Engineering and Procurement (**EP**) or Engineering, Procurement and Construction (**EPC**) services to customers.





EGESIM ACTIVITIES ON GEPP PROJECTS

EGESIM continues her actions with the establishments for Electrical Power plants from Geothermal and Waste Heat resources on EPC base as to be a unique Co in Turkey; (complete with engineering, procurement and contracting to include electricity and automation up to the acceptance by authorities with commissioning)

- Taking the energy from the resource to the ORC Plant,
- ORC Plant,
- Injection of the heat source to the injection wells,
- Emergency evacuation and Control
- Auxiliary plants such as;
- Motive fluid storage and distribution
- Pressurized air production and distribution
- Fire Fighting Plant with
- Storage tank of API 650,
- Pump station
- Hydrant System
- Fire Detection System
- FM 200 storage and distribution

EGESIM is also dealing and continuing with RESEARCH & DEVELOPMENT for the followings:

- Increase the power production in summer months,
- Prevention of H₂S emission
- Reinjection of CO₂ back to wells,
- Different application of ORC cycle

WHY US?

- Standardized and customized solutions available
- Optimum and quick solutions with experienced team located in Turkey
- Service for 24 hours
- Sense of quality
- Experiences at 30+ Geothermal Power Plant in Turkey
- EPC Capability and Turnkey Project Management
- The Feasible tailor-made ORC solutions
- Atlas Copco Turbo-expander with Capable for Higher Output
- High efficiency and optimal performance over a wide range of operations
- Superior electrical energy recovery efficiency and plant availability