



## Soil reinforcement for the gas turbine power plant in Boufarik (704 MW)

Stone columns and semi-rigid inclusions

2014 - 2015



**ALGERIA - Boufarik**

### Client

**GAMA Power Systems Engineering And Contracting Inc**

### Owner

Société Algérienne de Production de l'Electricité (SPE)

### Lead Designer

Compagnie de l'Engineering de l'Electricité et du Gaz (CEEG)

### Highlights

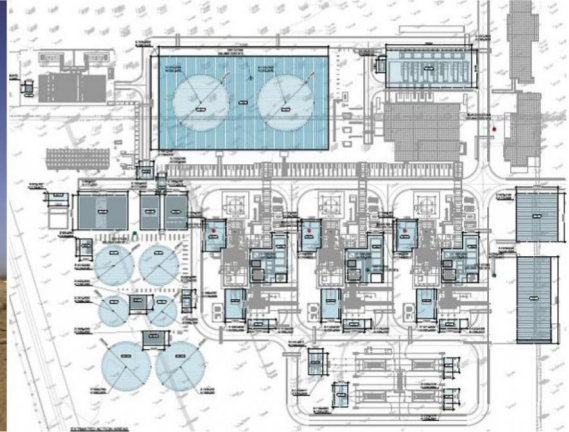
3 gas turbines: 704 MW

Total treated area:  
30,000 m<sup>2</sup>

Dry stone columns:  
1700 U/21,000 m

Grouted stone columns:  
5900 U/95,000 m

Semi-rigid inclusions:  
980 U/27,000 m



### The Project

As part of the construction phase of the new gas turbine power plant project (704 MW) on the Boufarik site in Algeria, which were contracted to GAMA in "Fast-Track" mode, TERRASOL provided technical assistance to GAMA for all the soil reinforcement works.

These works were contracted to KELLER and covered reinforcement by dry stone columns, by grouted stone columns and by INSER-type semi-rigid inclusions.

### Our Services

TERRASOL was responsible for checking all the calculation reports related to the soil reinforcement for all the structures involved (turbine slabs, control buildings and related structures, chimneys, tanks, etc.).

TERRASOL was also responsible for checking the works execution procedures and for supervision of the various control tests (control of load transfer platforms, control of all types of inclusions by loading tests) in conformity to current rules and recommendations (ASIRI in particular).

Lastly, TERRASOL provided technical advice on various geotechnical issues in order to help GAMA reaching an optimal management of its contract.

### terrasol

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