

Enelex is a company with more than 25 years of experience in the field of coal quality management. Core activities comprise designing, manufacturing, installation and maintenance of the coal quality management systems all over the world. The major customers are coal miners and power plants, which deal in coal either as a product or as a raw material.

There are four main production lines of Enelex production program to be exported to your country:



On-line (real-time) coal quality analyzers:

Coal-fired power plants have agreements with coal miners on the quality of coal to be supplied by the latter. This is important because every boiler in power plant is designed for a definite range of coal grades. If the quality of coal supplied is lower or higher than the specified range, it affects the functioning of the boiler and also the turbine plant and compromises the plant's efficiency, leading to losses in generation and delivery of electricity into the national grid.

To avoid such operational and financial losses, it is important that the power plant inspects and maintains the quality of coal coming into bunkers before the material is put into boilers. With the proper installation of Enelex online coal quality analyzers, it is possible to continuously monitor and thus maintain the coal quality within the required range.

Online coal quality analyzers are based on DUET method, using radioactive source of Cs and Am for evaluating ash content, calorific value and moisture, online data are available for operator in control room.

Online coal quality analyzers are important for improving the economy of both coal mine and power plant. Coal mine can achieve the correct range of quality required by the customer by homogenization of coal and avoid possible penalties. Power plant can achieve higher efficiency of the boiler and thus the turbine plant by improving the output and delivering more electricity to the grid, minimization of forced shutdowns of boilers, fuel savings. The return on investment (ROI) is then very fast, sometimes calculated in weeks. The main purpose of installation of online coal quality analyzers is to be able to manage maintaining the right quality of coal in technology. Power plants should have interest to protect their boilers and keep efficiency of the boiler in the right range. Combustion of optimal quality fuel contributes to emission reduction and to significant improvement of air quality around power plants.



Automatic coal samplers and auger samplers:

Automatic coal samplers are used for sampling in belt conveyors, while auger samplers are used for sampling from trucks or railway carriages. When a supplier supplies on the conveyor belt, which means the coal mine is located near the power plant, an automatic coal sampler is used for sampling. If coal is supplied to power plants by trucks or railway carriages, then auger samplers are used. Auger sampler can be equipped with online coal quality analyzer, optionally. Using automatic samplers, it is possible to ideally set up and then check the system of on-line quality measurement. Combination of on-line coal quality analyzers and automatic samplers results in a high efficiency of Coal Quality Management Systems.



Thermal imaging systems:

Thermal imaging systems which is used to avoid spontaneous combustion in the stockyard or any technological operation where there is a fire hazard. It is a unique software system which is installed with thermal cameras and helps to track the changes in temperature on the surface of the stockyard or equipment. The system keeps monitoring the temperature continuously by moving cameras and signals when the temperature rises sharply up. If the temperature reaches dangerous levels, the system will warn the operator to remove the hot spot immediately. It is important that the system helps you to avoid such a situation by giving warning before the fire occurs. That is why this system is unique as it follows the temperature trend on the stockyard and sends alarm for you to take immediate action.

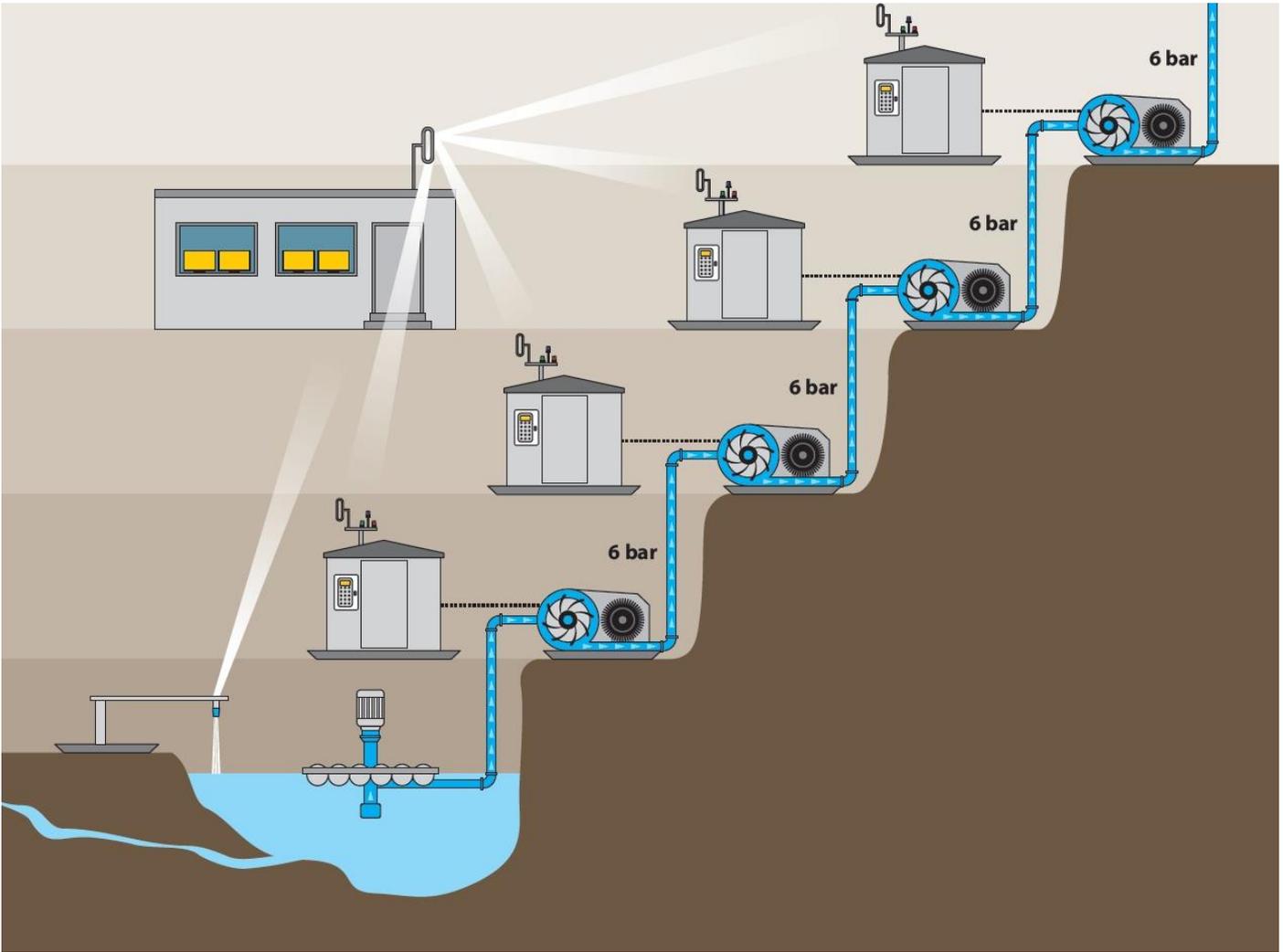
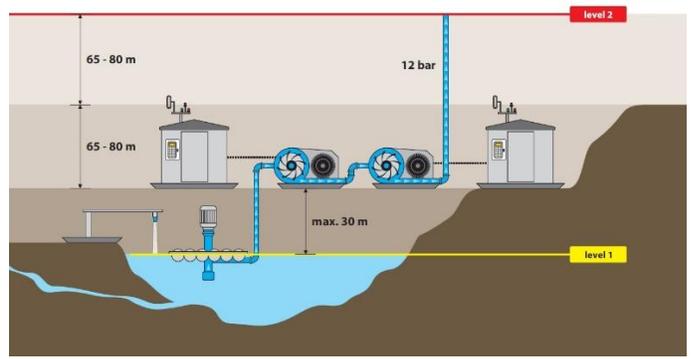
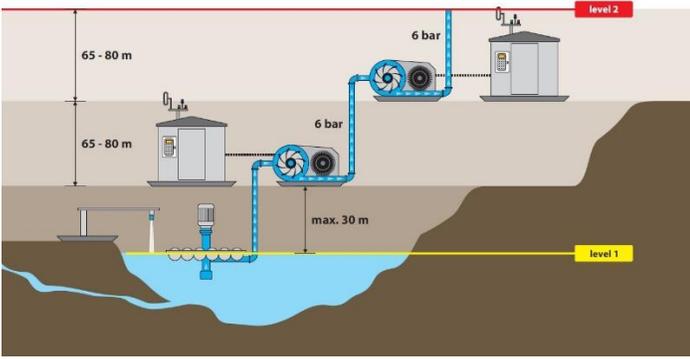


Mine pits dewatering systems:

During rains, each open pit mine is facing extreme soil erosion which accumulates in sumps in the pit bed and cause problems with priming of the fixed-mount pumps which become clogged by solid particles. The issue was solved by configuration of the modular system technology.

The operation and priming of the pumping station is ensured by the vertical pump which is mounted on floating platform which ensures that the vertical pump is always working on the water surface so that the suction of solid particles is minimized and safe priming of following stages of the pumping station. The dewatering operation is ensured for longest possible period before the sump has to be cleared even in extreme wash-away. The equipment mobility is ensured by its surface placement mounted on a sledge frame without anchoring in a way that the units can be transported within the mine as per need. The need of heavy machinery is minimal.





Enelex markets its products all over the world. We have references for installations in India, Indonesia, South Korea, South Africa, Russia, Ukraine, Kazakhstan as well as in Europe.

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