



Noise

Sound management

We recognise that our generation, transmission and distribution facilities are all potential sources of noise nuisance to the community, but with careful planning and noise control measures, we have a perfect compliance record with relevant legislations and regulations.



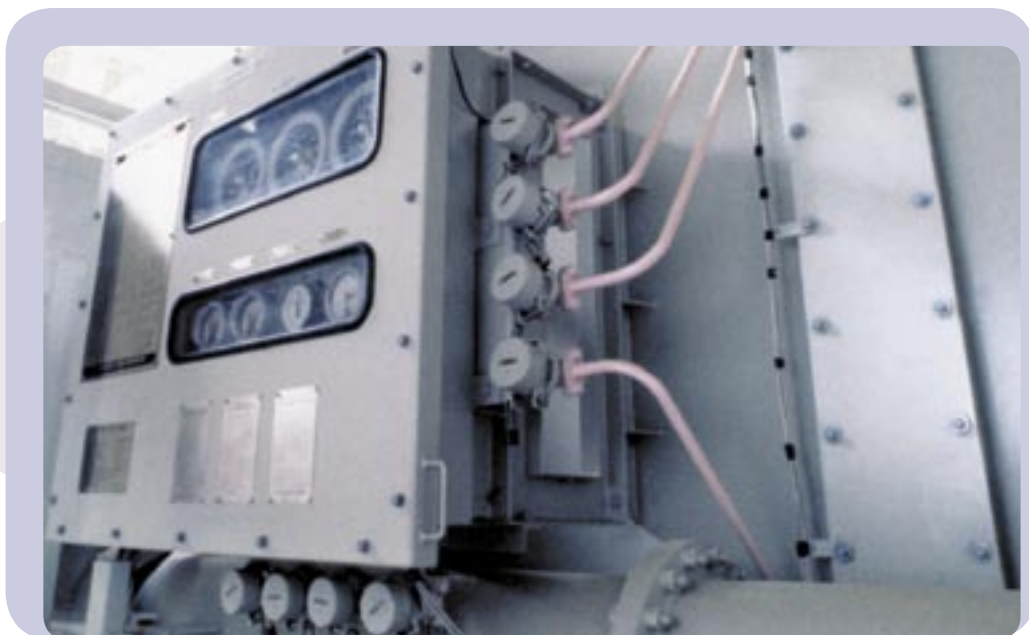
Noise Impact Assessments

To avoid noise problems, we carry out comprehensive noise impact assessment using computerized models when planning for any new installation. The potential noise impact on the nearby sensitive receivers is evaluated and solutions to any identified problem are devised and implemented. Noise from existing problematic installations is assessed and the best practicable mitigation measures are retrofitted to alleviate the problems.

Noise Control

Sometimes in environmental management, Mother Nature herself affords the simplest solutions – the Lamma Power Station was designed using a headland as a natural noise barrier. When specifying new equipment, we use wherever possible state-of-the-art low-noise equipment (e.g. quiet transformers, motors, fans, etc.). To ensure compliance with the specified noise levels, new equipment is tested first at the manufacturer's factory and again on site after installation.

Silencer banks at our substation to reduce noise.



Jacketed gas transformer to minimise noise.

Our steam turbines are housed inside buildings. Other noisy equipment, such as high capacity pumps and fans have their own acoustic enclosures and silencers, while flue gas ducts are covered with noise abatement laggings. Where necessary, additional mitigation measures such as acoustic louvres, silencers and noise barriers are installed at our electrical substations. To reduce the noise emission during road excavation work, portable acoustic barriers or enclosures are used whenever necessary.

Monitoring Network

We have installed six noise monitoring stations at strategic locations both inside and around the Lamma Power Station to continuously monitor the noise impact on the nearby villages. Advanced sound level analyzers and data acquisition techniques are employed in these monitoring stations to ensure accurate and reliable measurements. The noise signals are fed into a computer system for continuous noise surveillance. This monitoring network provides early warning of any noisy event to our operators and enables them to take immediate action in case anomalies occur.



HEC environmental staff calibrating continuous noise monitoring equipment at Lamma Power Station.

