

CASE STUDY A075: RAILWAY BRIDGE MOVEMENT MONITORING

Customer	LRTA Manila
Location	Manila, The Philippines
Duration	October 2007 – February 2009
Application domain	Civil Engineering-Railway

Passages of rolling stock on Metro Line 1 give rise to high vibration levels of both the tracks and the viaduct structure. Due to a sustainable and proven fear of structural damage to the viaduct, a continuous monitoring of the movement of the viaduct and some of its components was required.

In case the monitored parameters reach a certain safety threshold, maintenance teams are automatically alerted in order to take necessary actions: speed reductions, rail grinding or others.

A specific demand from the customer was independent solar-powered operation. Batteries and solar panels capacity have been provisioned to allow autonomous operation on solar energy exclusively.

