

## MEDIA RELEASE

**Release Date:** Thursday, 22 August 2013

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### **TRAINS ON TRACK TO CUT ENERGY USE AND ENVIRONMENTAL EMISSIONS, AND IMPROVE ONTIME RUNNING, WITH ENERGYSER – KIWIRAIL & TTG TRANSPORTATION TECHNOLOGY JOIN FORCES**

SYDNEY, Australia, 22 August 2013: New Zealand's national rail operator, KiwiRail, has joined forces with TTG Transportation Technology to cut energy consumption and environmental emissions, while managing on-time running of trains, using TTG's [Energymiser® Driver Advisory System](#). KiwiRail and TTG have signed a Contract following a successful trial and competitive tendering process, to rollout Energymiser® across KiwiRail's freight trains – retrofitting up to 182 mainline diesel and electric locomotives.

[TTG Transportation Technology](#) is a leading international provider of solutions to optimise energy efficiency, schedules and network capacity of passenger, freight and heavy haul rail; at both planning and operational stages. Energymiser® is a connected Driver Advisory System (C-DAS) providing real-time advice for train drivers to identify precise points where to coast, power and brake to conserve energy while helping ensure on-time running, and automatically adapting to actual conditions throughout each train trip.

“We're delighted to work with KiwiRail, rolling out a solution proven internationally and within New Zealand rail operations, and backed by TTG's expertise. Energymiser® has achieved 14% to over 20% energy savings for high speed passenger and coal trains in the UK; where the solution is the market leader on a congested rail network; and from 8.9% savings for iron ore trains in Africa; being over 2km long and 20,000 tonnes; to 10% or more for freight trains in Australia, the UK and India”, said Stan Ghys, Business Development & Marketing Manager at TTG.

The solution can also improve on-time running of trains and utilisation of rail capacity by interfacing with existing train scheduling systems to provide drivers real-time advice that regulates pacing between trains and critical timing points on the rail network throughout day of operation.

“Reducing our fuel usage benefits everyone”, said Iain Hill, G.M. of KiwiRail Freight. Locomotive fuel is their second biggest operational cost behind labour costs.

“Rail is already recognised as the least energy intensive form of land transport. We are committed to a range of energy saving measures across the business to optimise that natural strength so we can deliver value to customers and the environment. C-DAS technology will help us reduce the carbon footprint of our customers' products and long distance passenger journeys, and manage on-time running.

While our new DL locomotives are already more fuel efficient than our older stock, and meet EU emission standards, this additional technology will help drivers across our fleet actively manage their driving to reduce fuel usage. By providing an accessible and reliable rail service, we help reduce the impacts of the transportation industry on the environment and communities”, said Mr Hill.

New Zealand has set a target to reduce net carbon emissions by 50% of 1990 level by 2050, as well as a short term target of between 10% and 20% below 1990 levels by 2020. The transportation sector has a significant role in meeting the targets and rail can be a more energy efficient mode of transport. When heavy loads move off the road to rail, there is also less damage to roads from heavy trucks and less congestion, noise pollution and accidents.

#### **About TTG Transportation Technology**

TTG Transportation Technology is a leading international provider of products and services to optimise energy efficiency, schedules and network capacity of passenger, freight and heavy haul rail; at both planning and operational stages. Combining



consultancy, software, engineering and manufacture with domain expertise in all facets of the industry, TTG's solutions are proven in use across Australia, the U.K., New Zealand, India and Africa, for example.

TTG's flagship products follow 16 years R&D with leading universities: Energymiser® provides real-time driver advice and performance reports to reduce energy bills and emissions by up to 23%, improve on-time arrivals and utilisation of rail capacity, and reduce maintenance costs of trains and railway tracks. Schedulemiser® optimises timetable development during rail planning and provides near real-time decision support.

TTG also provides simulations to optimise design of new rail alignments to minimise subsequent energy consumption and reduce maintenance costs. TTG is an ISO9001-certified Clean Technology company with offices in Sydney, London, Derby and Beijing, has operated for 25 years, and is backed by leading Australian research and patented technology.

For more information, visit [www.ttgtransportationtechnology.com](http://www.ttgtransportationtechnology.com)



### **About KiwiRail**

The New Zealand Railways Corporation trades as KiwiRail and is a State Owned Enterprise governed by the State Owned Enterprise Act 1986, the New Zealand Railways Corporation Act 1981 and the New Zealand Railways Corporation Restructuring Act 1990. KiwiRail has approximately 4,500 employees and is responsible for the operation of rail freight and passenger services, the management and development of the New Zealand rail network, the operation of mechanical services and is charged with running the network efficiently, effectively and safely.

KiwiRail operate a national railway network of approximately 3,600km route kilometres and around 850 trains per week with up to 165 diesel-electric locomotives, 17 electric locomotives and close to 500 Locomotive Engineers (drivers).

Further information is available by visiting [www.kiwirail.co.nz](http://www.kiwirail.co.nz)

