

# Wellington Suburban Rail Power System Upgrade

**Craig Tooke**

**Principle Engineer – Electric  
Traction**

**KBR**

**KBR**

# 10 New Substations



**KBR**



# New Traction Electrical Equipment



**KBR**



# Rehabilitation of Overhead Network









# Other Works

- Design of replacement overhead for Johnsonville line
- Design of additional overhead feeder wiring to enhance power supply
- Design of new extension to Waikane
- Report on future electrical operations

**KBR**

# Conclusion

- Would I be involved again – yes
- Is it a step forward – yes
- I would like to congratulate Kiwi Rail staff on their dedication and professionalism

**KBR**

# Acknowledgements

- Alan Nielson – Manager Signalling & Traction Kiwi Rail
- Bela Jozsa – Principle Electric Traction Engineer KBR
- Dave Wong – Manager Transport Parsons Brinkerhoff NZ

**KBR**