

4th UIC Energy Efficiency Conference

September 25th 2009

Energy Efficiency Days 2009





Workshops

- WS 1: Ecodriving Training Programmes
- WS 2: Traction Energy Metering and Billing
- WS 3: Energy Efficient non-traction operations
- WS 4: Energy Management for existing rolling stock



Process, Power, People

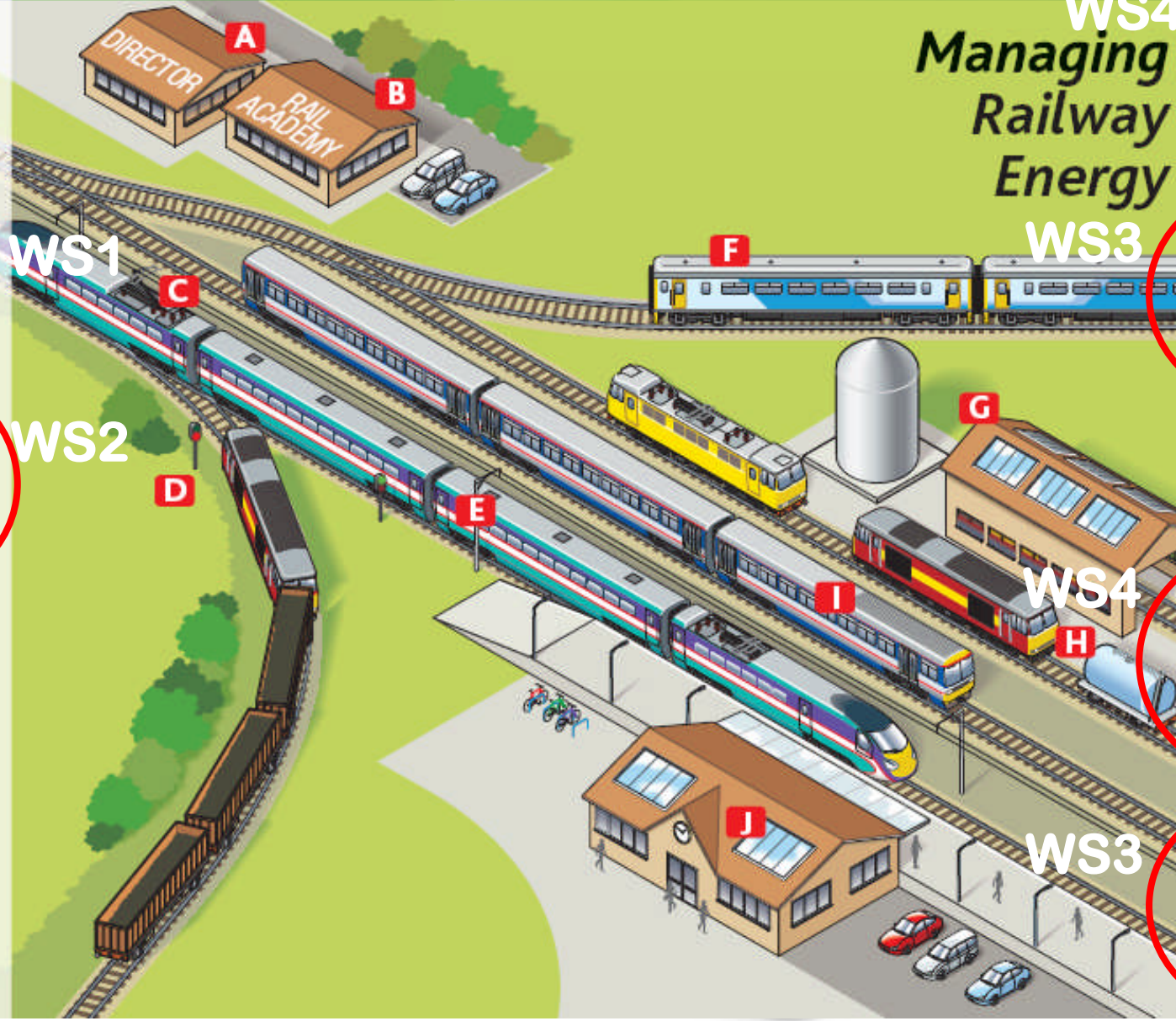
A
Reporting and Feedback
 Give regular energy reports to senior managers

B
Training
 Improve energy awareness for all staff - and give eco-driving coaching to train drivers

C
On-board Metering
 Fit remote read-out systems for billing, management information and feedback to drivers

D
Traffic Management
 Avoid stopping heavy freight, or slowing down high-speed passenger services

E
Electrical Power Supply
 Measure and manage system transmission losses



WS4
Managing Railway Energy

F
Parked trains
 Shut-down diesel engines and switch-off electrical systems

G
Depot and Workshop Buildings
 Avoid waste and improve efficiency of heating, lighting and machinery

H
Diesel Fuel
 Keep accurate records and use the data to improve maintenance as well as driving technique

I
Train Lighting and HVAC
 This can comprise over 20% of total train energy use - so improve control systems to save energy in traffic, and when parked out of service

J
Stations and Offices
 Apply latest building services techniques for equipment efficiency - and simply switch-off areas not in use