Railways & Renewables

• Introduction / Expectations
• Input: RE Use (Ulrich Ostermeyer)
• Input: RE Production (Pascale Heylen)
• Exchange in 3 groups
  – Strategies for RE use
  – Practice examples for RE production
Railways & Renewables

To be differentiated:

- Renewable energy use / procurement
- Renewable energy production on railway infrastructure

- Expectations from UIC:
  - Common guidelines for „green certificates“.
  - Exchange of good practice examples.
BELGIUM
• RE Production: SNCB buys its electricity from Infrabel, so they depend on the RE projects of Infrabel.
• RE STRATEGY: No one and they are not thinking on having one

ITALY
• RE STRATEGY: under evaluation
• RE Production: at the moment solar production for WS

RUSSIA
• RE STRATEGY: no-one, but studying European case
• RE Production: no-one but studying

EAST JAPAN
• At the moment only En. Efficiency measures in place

Expectation regarding RE Procurement
• Guidelines needed for accounting and reporting of Zero Carbon products
• Guidelines needed for the exact calculation of CO2 emission factors

Expectation regarding RE Production
• Case studies needed
• Cost /benefit analysis information needed
• Information on the balance between energy RE produceable and energy needed for train traction (different scale of orders)

Expectation out of topic from ITALFERR: Needs of common and harmonized guidelines at international/European level on the accounting and reporting of carbon footprint of the building phase
NORWAY
• RE Strategy: Policy for green procurement
• No customer interest in green product
• Use of GoO (Guarantee of Origin) + additional requirements
• RE PRODUCTION: 100% hydro power

THALYS
• Electricity provided by SNCB and SNCF
• no own RE strategy

NS
• RE Strategy: 100% green by 2015 (physical supply)
• Today 100% green by certificates
• RE PRODUCTION: own plants

FINLAND
• Official RE Strategy: ?
• Use of GoO: 100% (accepted by WWF)
• No nuclear power supply
• No investment in plants

Expectation regarding the UIC zero carbon project:
• Suppliers need to be involved
• Clarify content of existing cooperation between CER and Euroelectric
Exchange Session: Group MARKUS

SWEDEN
• RE Production: Heat storage for workshops

NETHERLANDS
• RE Production: Geothermal heat + Heat pumps

ITALY
• Solar production for workshops

GERMANY
RE Procurement: Reputation discussion

SWITZERLAND
• RE Strategy: focus on energy saving, aim: 100% renewable by 2025

DENMARK
• RE Procurement: Reputation discussion on RECS

BELGIUM
• Objectives to rise share of renewables, but cost issues

EXPECTATIONS: sharing of experiences in Renewable Energy Engagements