THE ENERGY METERING SYSTEM FOR FUTURE RAILWAYS
Simple and accepted comprehensive package for energy metering with cross-boarder railway traffic for capturing and billing the demand of traction power on european railway corridors

- Infrastructure managers
- Railway undertakings
- Leasing providers of traction vehicles
- Manufacturers of traction vehicles
International requirements for energy metering

**EU-Richtlinie**

Publication EU-Guideline 2008/57/EG on interoperability of the rail system within the European Community

**UIC Leaflet**

Publication UIC Leaflet 930

**TSI Loc&Pas**

Publication TSI Loc & Pas

Annex D – EMS: 1 and 5 Min.-Values, No reference to EN50463

Application TSI for all new vehicles & significant modifications on existing vehicles for EMS

**EN50463**

Publication EN50463 – Requirements EMS

4 years transition period

**TSI ENE**

Publication TSI ENE

No reference for DCS

Transmission format DCS – EMS

Data exchange DCS – EMS

6 years transition period

**Timeline**

- 2008: 17.6.2008
- 2010: 1.4.2010
- 2011: 1.6.2011
- 2015: 1.1.2015
- 2017: 31.5.2017
- 2019: 1.1.2019
- 2021: 1.1.2021
- 2020: ...

**References**

- EU-Richtlinie
- UIC Leaflet
- TSI Loc&Pas
- EN50463
- TSI ENE
Certification process

- **Base for the certification of the rail vehicle according to TSI**
  - Intermediate Statement of Verification (Level of device railpower box)
  - EC Certificate of Verification (level of rail vehicle)

- **Certification for vehicles not requiring official approval for installations**

- **Vehicle registration according to TSI**
  - Intermediate Statement of Verification for the railpower box is provided by ÖBB
  - Submission of EC Certificate of Verification is done by the owner of the vehicle
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