

**ECORails –
Energy efficiency and environmental criteria in the awarding of regional rail transport
vehicles and services**

ECORails

Deliverable 23: Training Module for the Guidelines Annex 11 Part 3/Issue 10 – LCC analysis

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LCC analysis

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Instruments:

LCC-driven procurement

Estimation: LCC of loco for passenger service:

Investment 22.7 %

Energy 46.2 %

Maintenance 31.0 % *(from literature)*

LCC Data Sheet

No.	System name	Procurement costs		Energy consumption & costs / year		Spare parts	Wear parts, consumables	Planned maintenance	Repairs	General / capital overhauls		Total costs (€) after:					Total LCC	Obs.
		€	Consumption / year	MU	€					€	€	€	type	months	€	1 year		
1	Car body																	
2	Bogies and undercarriage																	
3	Diesel engine			1														
4	Generator principal			kWh														
5	Traction control and adjustment																	
6	Traction engines			kWh														
7	Ventilation systems for cooling			kWh														
8	Energy source for auxiliaries			kWh														
9	Accumulator batteries																	
10	Compressor			kWh														
11	Pneumatic installation																	
12	Braking *																	separately for all types of braking offered
13	Electric installation																	
14	Computer system																	
15	Air conditioning			kWh														
16	Heating			kWh														
17	Lighting			kWh														
18	Communication and information system																	
19	Information system																	
20	Interiors			kWh														
21	parked trains			kWh														
22	Doors' actuating			kWh														
23	Train control optimization system																	
	TOTAL (€)																	100 total, without opt. vers.
	TOTAL (%)																	100

Contact

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