



ECOlogistics for our future

# Energy Data Opportunities and Challenges for CFL cargo

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Eress Forum  
Split

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- Introduction to CFL cargo
- Rail freight and the environment
- Evolution of Energy Purchasing
- Energy Platforms
- Data Opportunities
- Data Challenges

CFL cargo

- European Railfreight Undertaking
- Based in Luxembourg

Shareholders :

- CFL 67%
- ArcelorMittal 33%

Operations in :

- LU, FR, DE, BE, CH

Automotive



Chemical



Steel



Intermodal



Industrial

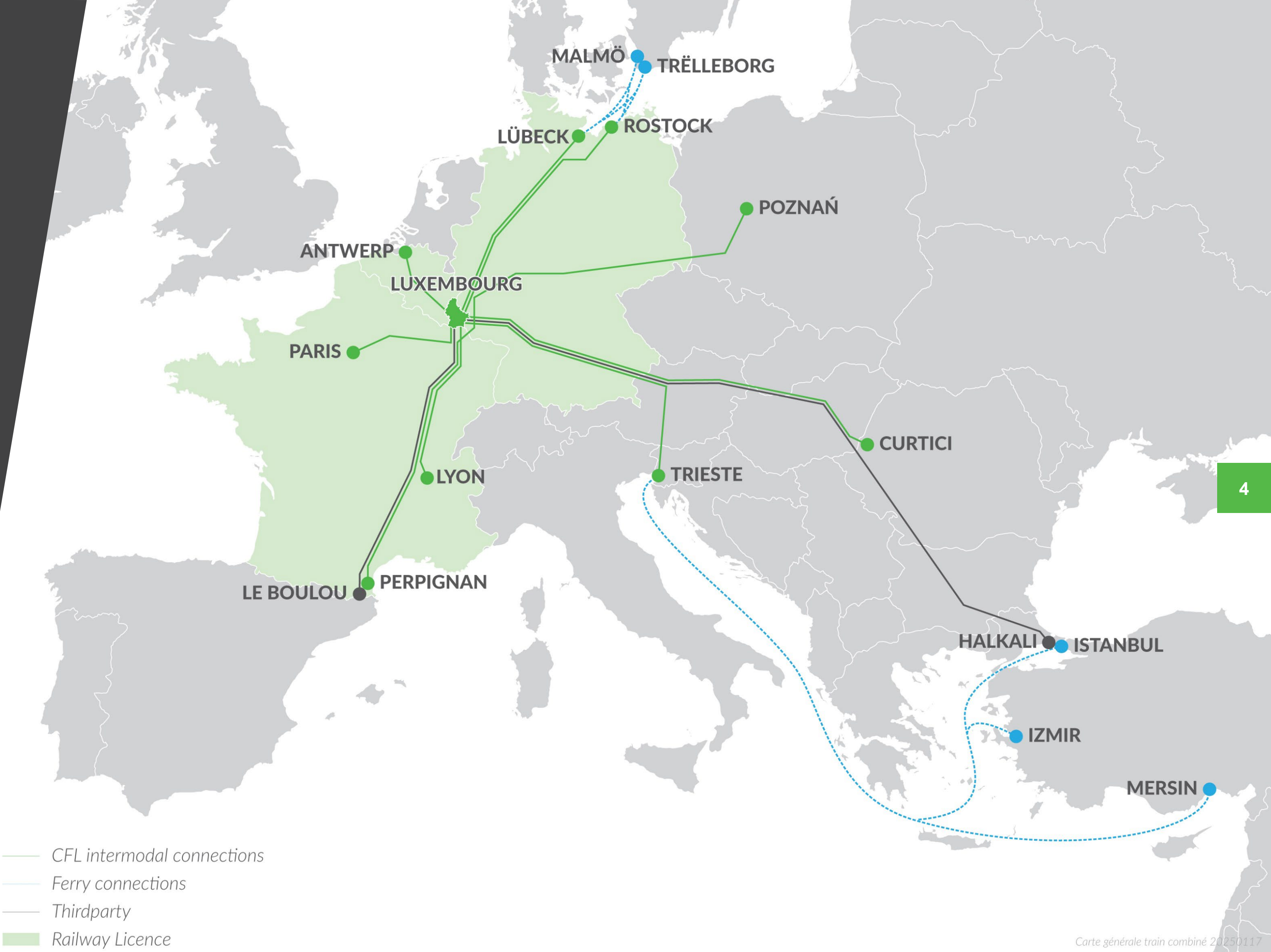


- Headquarters / operational centers
- Destinations / border crossings
- Operational hub
- ↔ CFL cargo freight corridor



# CFL Intermodal network

- Intermodal shuttle network
- Focus on Quality, Frequency, Reliability, Visibility
- Specific expertise in transport of semi-trailers
- Security at the core of all activities





# ECOlogistics for our future

**147.000**

Containers and  
semi-trailers  
avoided on road  
every year

Objective of

**525.000**

**tCO2/year**

savings by 2025

**Rail means**  
(compared to road)

**-70%**

carbon emissions

**12x**

less external  
costs

**6x**

less  
specific energy  
consumption



# Evolution of Energy Purchasing for a Freight RU

Overall trend

From .....

Energy Formulae

Marchandises :  $4 \frac{kWh}{km} + 12 \frac{Wh}{tonnes \cdot km}$

One Supplier, One Price



ANNEXE 5.4

REDEVANCES POUR L'HORAIRE DE SERVICE 2022

Barème de redevances des prestations complémentaires, connexes et diverses en euros courants HT

Redevance pour la fourniture du courant de traction (RFE) avec télé-relevage	
Mode de calcul de la redevance	Prix du MWh en € HT
Consommation réelle en MWh issue d'un dispositif de télé-relevage	111,95

To .....

Meters



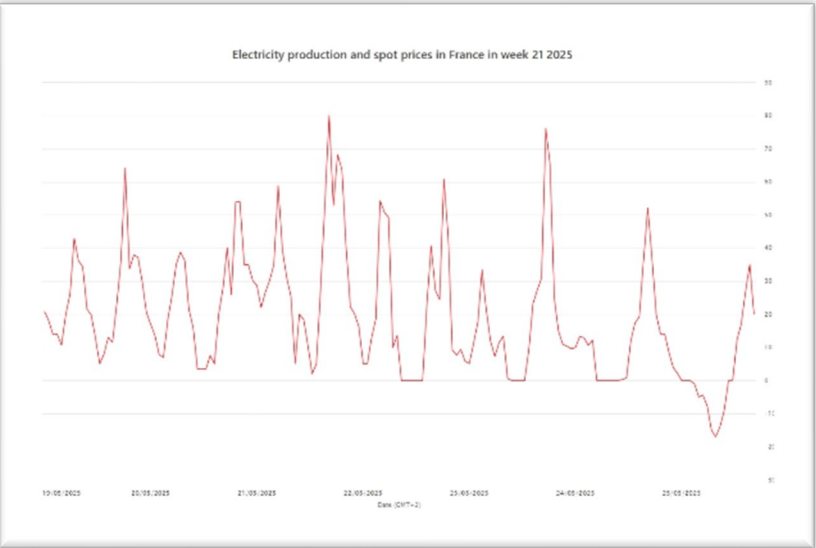
Many Suppliers, Many Prices

Les fournisseurs d'électricité pour professionnels en France

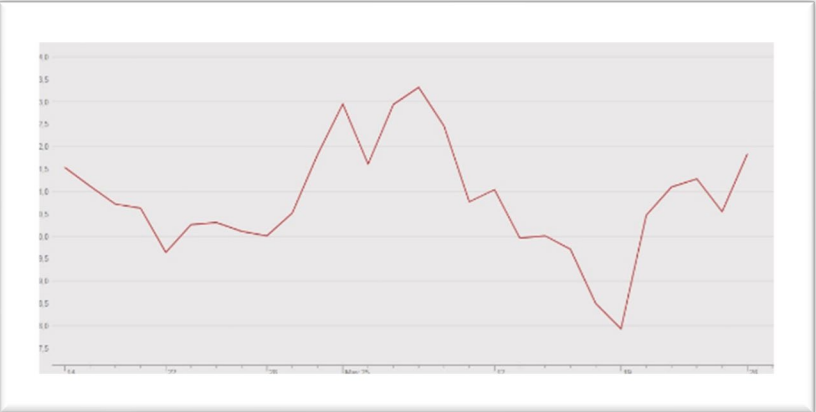


\*Liste non exhaustive

Selectra



eex Markets Market Data Trading Resources			
base			
Future	Last Price	Last Volume	Settlement Price
Cal-26	61.90	8,760	61.84
Cal-27	60.00	8,760	60.07
Cal-28	62.85	8,784	62.83



# Energy Data Platforms

## Energy Consumption visible through :

- EREX in Luxembourg and Belgium
- DECOFER in France
- HASLER in Germany (feeding into DB Energie)

EREX

MonitorSettlement and verificationFleetInfrastructureAdministrationLuxembourg

Settlement base verificationSettlement configuration

Choose monthChoose yearEnergy use settlement area

April2025Luxembourg

Grid area +	Metered (MWh)	Estimated (MWh)	Supply (MWh)	Percentage metered	Total	
▼ Luxembourg	12.6267	149.3639	0	7.79	161.9906	☐

SACE Rte

My traction units and EMS

Paul HODGSON

My traction units and EMSConsumptionCounting

Search

Export the listUnit traction creation

HoldingTenancyPast or futur holdingSold or written-off

Traction unit No.	Denomination	Serie	Holder	Owner	
91 87 0006 010 9		EURO6000	CFL Cargo	Alpha Trains Luxembourg s.a.r.l	1-14 of 14 line(s)
91 87 0006 013 3		EURO6000	CFL Cargo	Alpha Trains Luxembourg s.a.r.l	1-14 of 14 line(s)
91 87 0006 014 1		EURO6000	CFL Cargo	Alpha Trains Luxembourg s.a.r.l	1-14 of 14 line(s)
91 87 0006 015 8		EURO6000	CFL Cargo	Alpha Trains Luxembourg s.a.r.l	1-14 of 14 line(s)
91 87 0027 121 9	BB27121	BB27000	CFL Cargo	AKIEM SAS	1-14 of 14 line(s)
91 87 0037 002 9	BB37002	BB37000	CFL Cargo	AKIEM SAS	1-14 of 14 line(s)
91 87 0037 006 0	BB37006	BB37000	CFL Cargo	AKIEM SAS	1-14 of 14 line(s)
91 87 0037 012 0	BB37012	BB37000	CFL Cargo	AKIEM SAS	1-14 of 14 line(s)

HASLERrail

English (GB)hodsgrp

Home PageOrganizationsUnit typesUnits

Units list

Show 50 entries

Code	Description	Type	Active today	Today Cons. [kWh]	Last consumption day	Last reading timestamp	Billing status	
188 060		TRAXX MS3	Active	2,236	--	2025-05-27 06:50	Production	Detail
188 061		TRAXX MS3	Inactive	--	2025-05-26	2025-05-26 20:15	Production	Detail
188 062		TRAXX MS3	Inactive	--	2025-05-26	2025-05-26 22:55	Production	Detail
188 063		TRAXX MS3	Inactive	--	2025-05-26	2025-05-26 15:15	Production	Detail
188 064		TRAXX MS3	Active	5,618	2025-05-27	2025-05-27 07:45	Production	Detail
188 065		TRAXX MS3	Active	1,050	--	2025-05-27 07:50	Production	Detail
188 066		TRAXX MS3	Active	3	2025-05-27	2025-05-27 08:15	Production	Detail
188 067		TRAXX MS3	Active	3,927	--	2025-05-27 03:40	Production	Detail
188 068		TRAXX MS3	Inactive	--	2025-05-25	2025-05-25 09:35	Production	Detail
188 069		TRAXX MS3	Active	725	--	2025-05-27 03:45	Production	Detail

Showing 1 to 10 of 10 entries (filtered from 1,884 total entries)

Previous1Next

# Data Opportunities

- Accurate measurement of energy consumed
- Managing performance improvement – PDCA
  - Energy consumption reduction
  - Improved cost control
- Matching consumption peaks with spot price troughs?



# Data Challenges

- Measurement - Installing Meters

- Interfaces Meters to Systems

- Aggregation of Data

- Analysis of Data

- Management of Change





# Thank you for your attention

## Contact

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