ITA Study of Life Cycle Assessment for Lifts

presented by Alfredo Gomez Espinosa

as a result of an **ELCA** initiative

First conclusions & further developments

What is ELCA?

European association for manufacturers of lifts and lift components

based in Brussels

secretary Luc Rivet
www.elca-eu.org

represented by Thomas Birnbaum, board member

ELCA – priorities of its activity

representation of interests of manufacturers of lifts and components

1.
political activities to European associations, the European commission, committees for norms and directives, notified bodies...

2.
technical activities for its interests in codes and standards (e.g. CEN) and regulations (European directives)

some examples of recent activities

- **AMEV Germany** issue – ELCA eliminated the unfair and unjustified exclusion of hydraulic lift technology from public tenders
- **Analysis of the need to adapt the safety requirements of 1.2 million installed hydraulic lifts** in the EU to the state of the art by a common risk analysis with involved all relevant manufacturer
- **Promotion of 'Home Lifts',** their acceptance and distribution; participation on prEN81-42; focus on accessibility
- **Creation of a common European interest group by** strengthening cooperation of national and European associations with similar interests
- intensive participation to the **PCR work (Product Category Rules Lifts)**

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all relevant European manufacturers are involved as members or on a freelance basis

activities of ELCA WG Hydro as part of the PCR / LCA:

PARTICIPATION TO THE PCR WORKGROUP

3 members (Blain, GMV, Hydroware) participate with the PRIORITIES:

- Represent the hydraulic lift technology
- Make the PCR applicable for complete hydraulic lifts and for the assembly of various components into a complete lift
- Make the PCR applicable in case of modernizations of lifts !

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activities of ELCA WG Hydro as part of the PCR / LCA:

COMMON STUDY LCA FOR LIFTS BASED ON THE NEWEST PCR

1. Comparison of the ecological footprint over the lifetime of elevators with traction drive and hydraulic drive
2. Fair, honest and comprehensive view on the recourses consumption and pollution by all phases of the production, installation, usage, maintenance and dismantling of the lift
   (not only limited to energy consumption during use!)
3. First joint, quasi-official life cycle study according to the latest PCR with a notable, expert institute (**ITA**INNOVA – Technology Institute of Aragon)

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activities of ELCA WG Hydro as part of the PCR / LCA:

COMMON STUDY LCA FOR LIFTS BASED ON THE NEWEST PCR

4. Existing lifts: analysis & comparison of partial modernization of the elevator and its complete replacement – what is more sustainable ?
5. Conclusions for the selection of components and the selection of the drive system in case of an investment in a new elevator, and …
6. Conclusions for the decision of a modernization or a total replacement of an elevator and its impact on sustainability, the significance and the impact on the recourses pollution and its financial amortization

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activities of ELCA WG Hydro as part of the PCR / LCA:

COMMON STUDY LCA FOR LIFTS BASED ON THE NEWEST PCR

The publication of this study and an analysis of consequences for lifts and lift components, new installations and modernizations made by ITA and ELCA will take place at the end of 2015 or the beginning of 2016.

An **ELCA expert panel** will be set up for the interested industries to:

- inform and support producers & installers about PCR and LCA
- offer a platform for clarifications and activities
- transfer PCR and LCA conclusions to regional and European committees and relevant bodies, as well as into standards and directives, representing the interests of ELCA members

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COMMON STUDY LCA FOR LIFTS BASED ON THE NEWEST PCR

Thank you for your attention!

Interested?

Questions and comments? Direct them to luc.rivet@elca-eu.org

Meet Luc Rivet at ELCA booth Hall 2

Meet Thomas Birnbaum, GMV, Hall 1