# Scaling Rare Earths for Sustainable World

**Rare Earth Industry Association (REIA)**

**&**

**EIT RawMaterials**


**Date:** Tuesday, May 12, 2020

**Time:** 8:30AM - 5:30 PM

**Location:** EIT House, Brussels, Belgium

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Connecting matters

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REIA

# 1.Background

Rare earths are widely considered as critical metals, which various green technologies heavily depend on. How to scale rare earth industry for our sustainable future? At present, there is no single environmental footprint representing the rare earth sector. Thus, when the industry and its consumers wish to market themselves as environmentally friendly, they face a confusing range of choices and methods for environmental evaluation. The Rare Earth Industry Association (REIA) proposed their state-of-the-art method as a common way of measuring environmental performance of rare earths demonstrated at its first life cycle assessment workshop held in Brussels in 2019.

The REIA second life cycle assessment workshop is scheduled for 1 April 2020 in Brussels. REIA will launch its global first life cycle environmental footprint, and also invite experts for their valuable experience and insights for sustainable policies and practice toward a green rare earth industry.

Please join us for a training workshop featuring leading researchers from around the world sharing their insights into these increasingly significant issues for modeling REEs in Life Cycle Assessment.

*"Rare earths don't harm the environment, but bad practices do"*

# 2. Agenda

**Workshop Session**

| Time | Content | Presenter |
|---|---|---|
| **08:30-09:00** | Participants arrive – coffee/networking | |
| **9:00-9:15** | Welcome and Inauguration | Michel Vanavermaete<br>EIT Raw Materials |
| **9:00-9:15** | REIA efforts for sustainable REEs | Nabeel Mancheri<br>Secretary General, REIA |
| **9:15-9:45** | Keynote: Why LCA matters | Jeroen Guinee<br>Leiden University, Netherlands |
| **9:45-10:15** | Understanding basic LCA methodology | Gwendolyn Bailey<br>UMICORE, Belgium |
| **10:15-10:45** | Coffee Break | |
| **10:45-11:15** | Building an LCA flow sheet for REEs | Anne-Marie SYLVESTRE<br>Lynas Corporation, Malaysia |
| **11:15-11:45** | Integrating product & process information into LCAs via manufacturing process models | Devarajan Ramanujan<br>Arhus University, Denmark |
| **11:45-12:15** | Applying LCA in the development stage of rare earth projects | Robert Pell<br>Minviro, U. K |
| **12:15-13:00** | Lunch | |

**Training Session**

| Time | Content | Presenter |
|---|---|---|

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|---|---|---|
| **13:00-13:40** | Sharing environmental burdens among co-produced REEs: allocation needs and best practices | Dieuwertje Schrijvers<br>University de Bordeaux, France |
| **13:40-14:30** | Prospective LCA and scenario modelling in LCA | Bernhard Steubing<br>Leiden University, Netherlands |
| **14:30-14:40** | Coffee Break | |
| **14:40-15:40** | Practice and progress of REE environmental governance in China | Ying Ma<br>Baotou Research Institute of Rare Earth, China |
| **15:40-16:00** | Coffee Break | |
| **16:00-16:30** | Uncertainty in life cycle inventory modelling | Johannes Gediga<br>Sphera, Germany |
| **16:30-17:00** | Wrap Up and Q&A | |

# 3. Key Information

**OBJECTIVE:**
Learn how LCA for REEs is conducted and how these can be applied for eco-design of products, based on real examples
**TARGET AUDIENCE:**
Master and PhD students, Consultants and Companies

**PRICES:**
For Academic Participants: Euro 150
For Industrial and General Participants: Euro 250
**REIA Members: Free**
Maximum Participants: 25
Participants are requested to bring their laptop
**REGISTER BY EMAIL:** info@global-reia.org