



## Enabling a more sustainable future

### Pre-Conference Day Workshops – Tuesday, 29<sup>th</sup> of November 2022

#### 15.00 – 16.30 Impact of ESG clauses on Aluminium industry

- What is Environmental, Social, and Governance
- How to embrace ESG and remain competitive?
- Drivers for ESG clauses:
  - Rising purchaser and consumer demands
  - Hefty regulatory fines and government monitoring
  - Boardroom and C-suite executives are under pressure
  - Changes in the labour force
- ESG initiatives for Aluminium
- Technology's role in the implementation of ESG initiatives for manufacturers
- Low carbon aluminium: pricing transparency, integration with low carbon certification, and verification chain of custody
- Carbon Border Adjustment Mechanism (CBAM)
- ESG challenges on project financing
- ESG standards - what's the progress on measurement methodology, emissions benchmark, data and reporting framework?
- Assessing pricing impact of LME trading platform for sustainably sourced aluminium

#### 16.30 - 17.00 Coffee Break

#### 17.00 – 18.30 Meeting disruption in Aluminium sector with Industry 4.0

- How is digital technology challenging traditional business models?
- Improving efficiency and productivity through intelligent use of the data and information available within the smelter
  - Impact on cost, quality and customer satisfaction
  - Better protection against external factors
- Digital technologies and other elements of Industry 4.0
  - Impact on productivity
  - Better control over the production process
  - Access to customers.
  - Better safety and environmental sustainability
- How can producers leverage digital technology to maintain their competitive edge?
- Industry 4.0 in the Aluminium industry:
  - Digital production process and control with digitisation
  - Automation and robotics
  - Big data
  - Machine learning and artificial intelligence

#### 19:00 Arabal Welcome Cocktail reception



**Conference Day 1 Wednesday, 30<sup>th</sup> of November 2022**

**08.30 – 09.30 Registration and Welcome Coffee**

**09.30 – 09.50 Welcome & Keynote Opening from Hosts and Arabal Chairman**

**09.50 – 10.30 Official Exhibition Opening and Ribbon Cutting Ceremony**

**10.30 – 11.30 Session 1**

**Arab Smelter Panel – Current challenges future opportunities**

- Uncertainty over China's production levels
- War in Ukraine and the impact on prices with loss of alumina supply
- Economic, political and market factors impacting production
- Gearing up to deliver a more sustainable future
- Integrating ESG standards
- Advancing Diversity, Equity & Inclusion (DEI) – are we being fast enough?

**11.30 – 11.45 Coffee Break**

**11.45 – 12.45 Session 2**

**How is the industry meeting the booming demand with the resurgence post-Covid with tightness resulting from the war in Ukraine?**

- What are the plans to avoid inventory depletion?
- Can we assess the consequences of the forced shut down by the power disruptions in China?
- What is the impact of the premium of backwardation and of the elimination of tariffs on key commodities?
- Can we forecast the expected demand from the solar power sector?

**12:45 – 13:45 Session 3**

**Aluminium key enabler of the path towards a more sustainable economy and a 'green' recovery**

- How to support the role of aluminium as a beacon for the circular economy?
- What are the steps being taken towards greener aluminium namely the platform for low-carbon aluminium and supply-chain decarbonisation collaboration?
- Capturing the opportunities in new mobility and smart and environmentally friendly cities of the future
- What examples do we have of legislative/regulatory support for infrastructure, recycling and low-emissions production?

**13:45 – 14.45 Lunch**

**14:45 – 15.45 Session 4**

**Aluminium dashboard – costs, logistics, input materials**

- How has the industry weathered rising power and input materials costs? Are there regional differences in the approach?
- Overcoming the logistical challenges regarding metal supplies and the sanctions on Russia
- What's the direct and long-term forecasted impact on transportation and supply-chain challenges?
- What are the plans to overcome the demand stress for scrap caused by the market drive to reduce carbon content on metal and the impact of slow logistics?

**15:45 – 16.00 Spotlight on new developments**

**GCC's first plant for premium quality Aluminium grain refiners and master alloys, critical products for the csthouses:** Reducing lead times and strengthening supply chains for the Aluminium industry in the region and neighbouring markets, to meet global economies' reboot and capacity expansions"

**Enrique Sela**, Bahrain Country Manager, **Aleastur**

**16.00 – 16.15 Spotlight on Carbon Border Adjustment Mechanism (CBAM)**

Speaker TBC

**16.15 – 17.15 Session 5**

**Aluminium market SWOT – Strength, Weakness, Opportunity, and Threat analysis and forecast**

- Assessing the sources of disruption for the aluminium industry – can they be turned into opportunities?
- What are the current industry drivers for growth and expansion?
- Besides logistics and political landscape, what are the industry-specific challenges and risks?
- How quickly do we anticipate a two-tier pricing system deriving from carbon taxes in the EU, USA and Japan?

**17.15 End of Day One**

<b>Conference Day 2 Thursday, 1<sup>st</sup> December 2022</b>
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**08.30 – 09.30 Welcome Coffee**

**09.30 – 09.45 Welcome**

**09.45 – 10.45 Session 6**

**Understanding the market demand for aluminium sector by sector and update on refineries**

**10:45 – 11.00 Spotlight on new developments – Future Cities/Energy Transition**

**11.00 – 11.30 Coffee Break**

**11.30 – 12.30 Session 7**

**Are VAPs – Value Added Products the route to better margins?**

- What is the growth share of VAPs?
- Can we evaluate the incremental cost and potential earnings in both domestic and foreign markets across VAPs?
- Understanding producers' competitive position
- What will be the drivers of future demand?

**12.30 – 12.45 Spotlight on new developments – Technology Showcase**

**12.45 – 13.45 Session 8**

**The Future is now - Technology Game-Changers in the Aluminium industry such as Internet of Things (IoT) and deployment of Machine Learning (ML) and Artificial Intelligence (AI)?**

- Impact of the IoT as an ecosystem of connected machines, equipment, devices and physical objects and of the deployment of Machine Learning (ML) and Artificial Intelligence (AI) solutions to improve process control?
- Potential cost savings by forecasting equipment failures and process deviations through data analytics
- How can we safely maximise production, reduce raw material costs, and optimise energy consumption?
- What is the digital twin concept in control and monitoring allows real-time simulation of the process, advanced control and remote expertise

**13.45 – 14.15 Arabal outreach – collaboration for growth**

**14.15 – 14.30 Closing Session**

**14.30 – 15.30 Lunch**