



The Lightness of the Future

Boštjan KOROŠEC, Head of Energy Management Dpt.

www.talum.si



Basic information for 2018

| | |
|---|------------------------------------|
| Year of establishment, production: | 1942 ; 1954 |
| Number of employees: | 1.500 |
| Ownership: | ELES - 86 % (TSO) |
| Primary aluminum: | 84.000 t |
| Recycling: | 70.000 t |
| Net sales revenue: | 355 mio EUR |
| Power – base load: | 120 MW |
| Power – Pot room: | 110 MW |
| Energy consumption: | 1,1 TWh |
| Energy efficiency: | 2nd on the World |

Aluminum = Primary + Recycling + Remelting



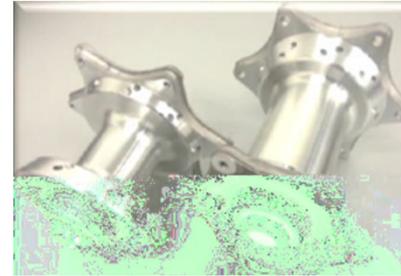
Billets



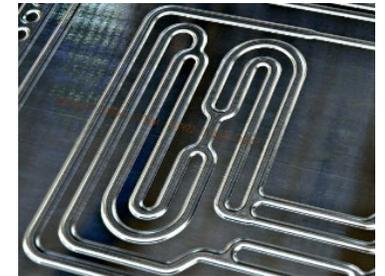
Foundry Alloys



Slugs & Discs



Castings



Evaporators

Doubts and questions before starting the project:

- **stability of the Process in Pot room ;**
- **Energy efficiency ;**
- **no references in the World ;**
- **scepticism on results and extern influence on our Process ;**



Our expectations:

- **stability of the Process VS dynamic changes ;**
- **additional costs in the Process ;**
- **Market potential ;**
- **experiences of other Partners ;**



Implementation of DR system and testing:

- directly into master Regulator ;**
- exclusive right to shut down the DR System ;**
- all testing agreed in advance ;**
- no complications with equipment ;**

Conclusions and benefits of the project:

- **the Process in Pot room is rigid enough ;**
- **end Consumers are vital parts of the Grids ;**
- **broad partnerships are „simple“ and have great results ;**
- **stability of the Grids is manageable ;**



Future participation in similar projects:

- critically dependent on Grid stability ;**
- decision and wish to participate in future R&D Projects ;**
- open to all new approaches in Energy Management ;**



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Thank you for your attention!

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www.talum.si ; bostjan.korosec@talum.si