» Interim report Q1 2018

Joni Lukkaroinen CEO 2 May 2018

A New Year

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»Metals have a key role in the revolution of transportation and energy



and distribution





»Key events in January-March

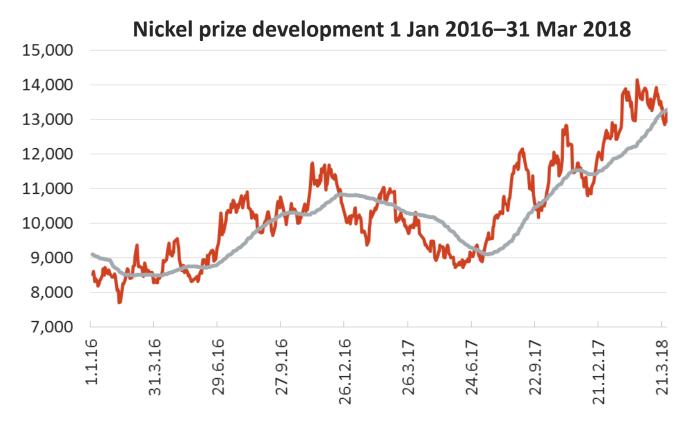


- EBITDA EUR 9,8 million.
- Sustaining capital expenditure EUR 5.4 million and EUR 10.1 million capital expenditure in productivity improvement and capacity expansions.
- Stacking of ore continued at a steady level of 4.5 million tonnes.
- 6,421 tonnes of nickel and 15,008 tonnes of zinc were produced.



» Metal prices developed positively

»Nickel price strengthening continued and stocks levels lowered



Day price for nickel on the London Metal Exchange (USD/t)

Day price for nickel on the London Metal Exchange (USD/t), 90 day average

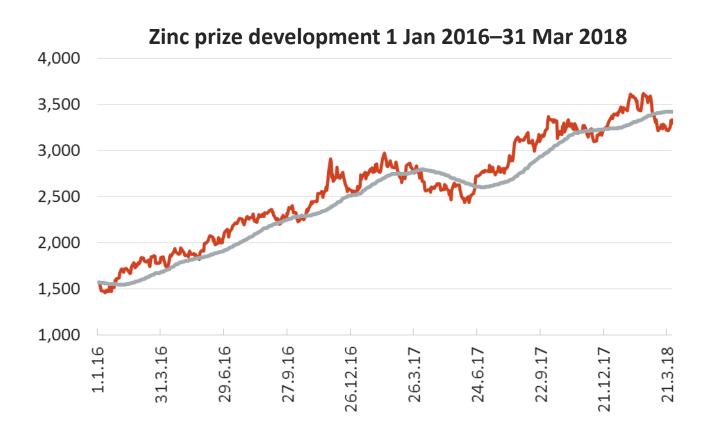
In Q1, average price was 13,277
 USD/t – 14.6% higher than in Q4.

- Compared with 2017 Q1, average price was 29.3% higher.
- The combined stock levels of LME and SHFE decreased by 43,000t in Q1 and were 368,000t at end of March.
- Key factors affecting price development were the growth in nickel demand for stainless steel production and for Asia's battery industry.



Data source: Metal Bulletin LME = London Metal Exchange SHFE = Shanghai Futures Exchange

»Zinc price increase continued but stock levels rose



Day price for zinc on the London Metal Exchange (USD/t)

Day price for zinc on the London Metal Exchange (USD/t), 90 day average

Data source: Metal Bulletin LME = London Metal Exchange SHFE = Shanghai Futures Exchange

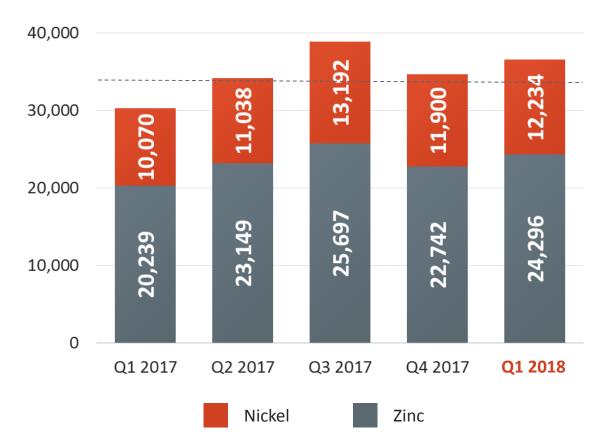
- In Q1, average price was 3,421
 USD/t 5.7% higher than in Q4.
- Compared with 2017 Q1, average price was 23.1% higher.
- The combined stock levels of LME and SHFE increased by 113,000t in Q1 and were 363,000t at end of March.
- Import duties set by the United States on steel and aluminium caused some volatility in the market.



» Production volume very close to the target level

»Mining and stacking of ore continued at the target level

Nickel and zinc to primary leaching (t)

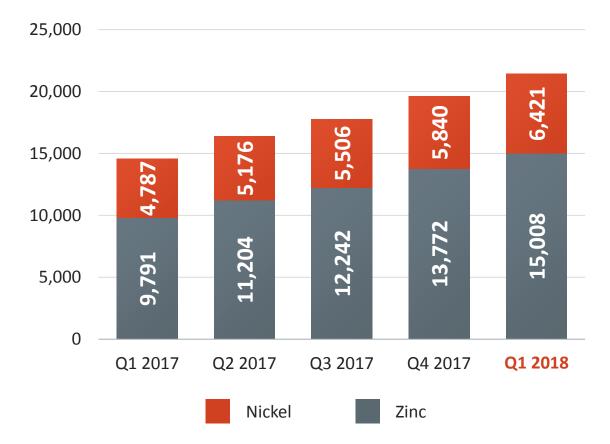


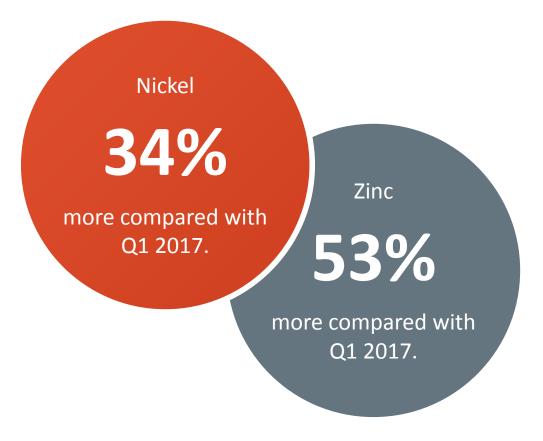




»At the metals production plant, steady growth continued

Nickel and zinc production (t)







» Safety at good level

»Lost-time injury frequency 3.5 for rolling 12 months

Lost-time injury frequency Terrafame employees





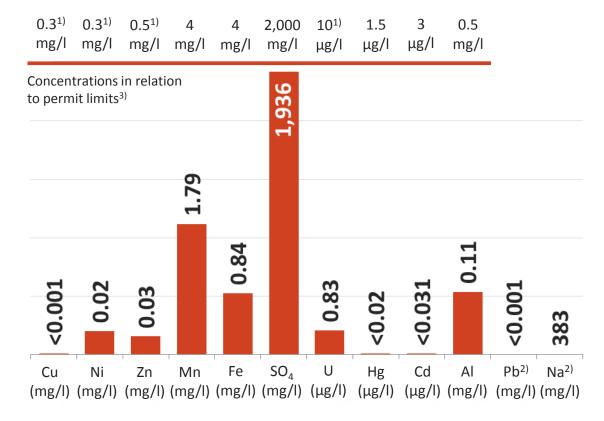
Lost-time injury frequency = number of injuries per one million personhours worked. Situation in 31 Mar 2018.



»Sulphate quota 475 tonnes clearly under the permit limit

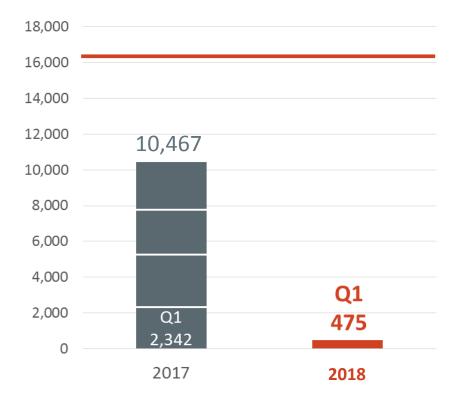
Concentrations in the water discharged

1 Jan 2018–31 Mar 2018



Sulphate quota 16,300 t in 2018

Discharge pipe 15,000 t/a and old routes 1,300 t/a





¹⁾ Max. allowed concentration in a single sample.

²⁾ No permit limits for lead (Pb) and natrium (Na).

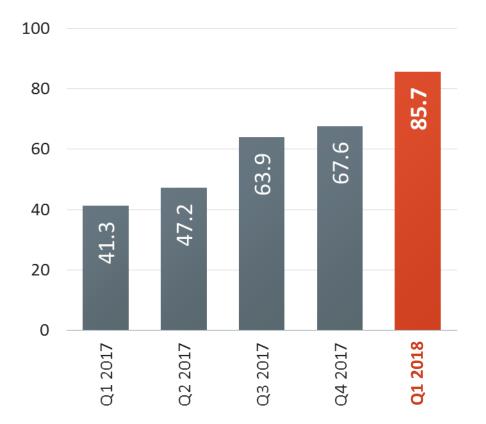
 $^{3)}$ In 2017, permit limit for manganese (Mn) 6 mg/l and for sulphate (SO₄) 4 000 mg/l.

» Net sales developed favourably

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»Net sales continued to grow

Net sales (M€)



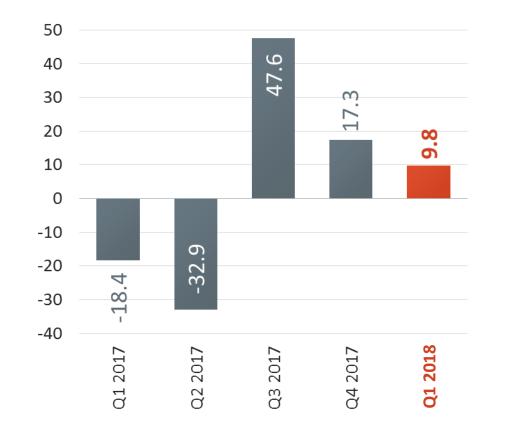
- Compared to Q1 2017, net sales more than doubled.
- Compared to Q4, the average nickel price in USD was 14.6% higher and in EUR 9.8% higher.
- Compared to Q4, the average zinc price in USD was 5.7% higher and in EUR 1.3% higher.



Audited 2017 figures (FAS).

»EBITDA without change in WIP turned positive

EBITDA (M€)



EBITDA excl. change in WIP (M€)

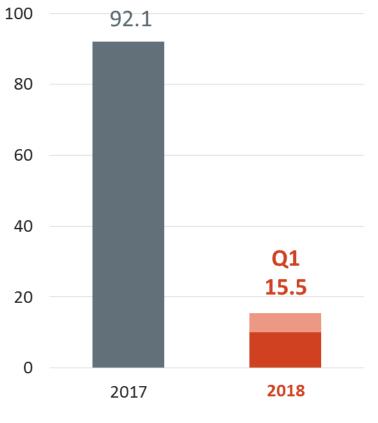


WIP = Work in progress. Audited 2017 figures (FAS).



»Investments in improving productivity and increasing capacity continued

Capital expenditure (M€)



Sustaining capital (5.4 M€):

- Ore transport equipment
- Alteration work related to relocation of the secondary bioleaching area ore transport line

Productivity improvements and capacity increases (10.1 M€):

- Construction of the foundations for block 2 in the waste rock area
- Installation work of the new hydrogen sulphide production line
- Construction of block 4 in the secondary bioleaching area



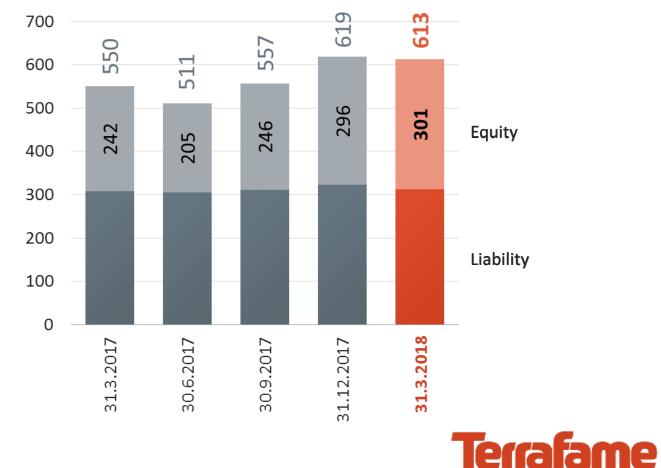
Audited 2017 figures (FAS).

»Terrafame's solidity at good level

Value of work in progress (M€)

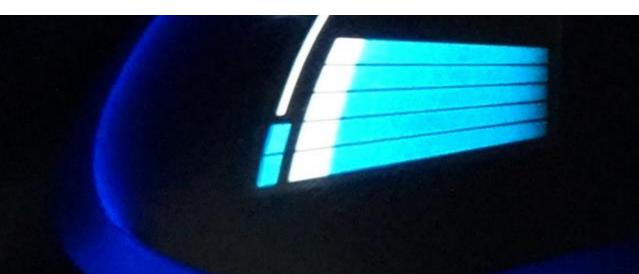


Equity and liabilites (M€)



Audited 2017 figures (FAS).

Project Battery Chemicals Plant proceeds





POWER

»Terrafame is aiming at becoming a significant producer of battery grade chemicals globally

- Feasibility studies and project planning as well as permit processes have advanced according to schedule.
- In addition to nickel and cobalt sulphates, the plant would produce ammonium sulphate.
- The Board of Directors has made a decision to proceed from planning phase to detailed engineering phase.
- Building of the project management organisation has been started.



»Near-term outlook

- Terrafame will continue ramping up production, stabilising operations and improving profitability.
- A spring maintenance stoppage in May will affect the production and sales volumes of Q2.
- In the battery chemicals plant project, the company will proceed to detailed engineering phase. At the same time, permit processes will be advanced.
- The recovery of rare earth elements and uranium will also be explored further on a laboratory scale.
- We will employ approximately 90 summer employees.









www.terrafame.fi www.terrafame.com