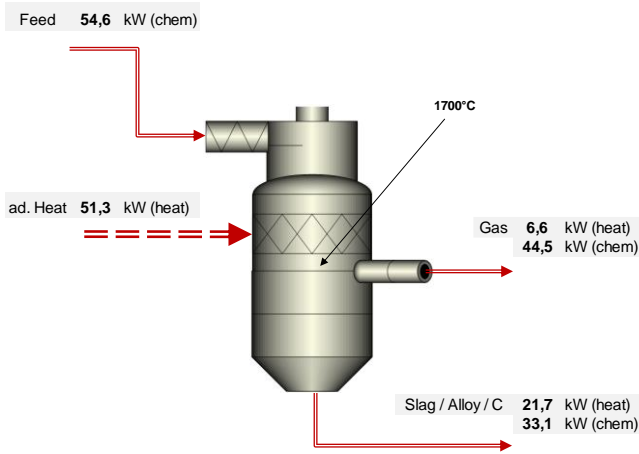
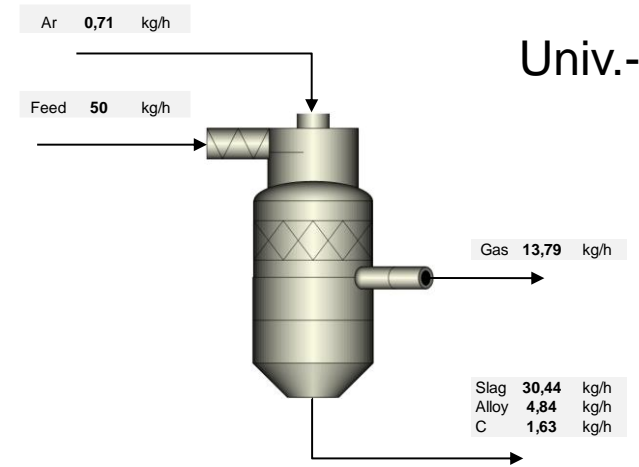
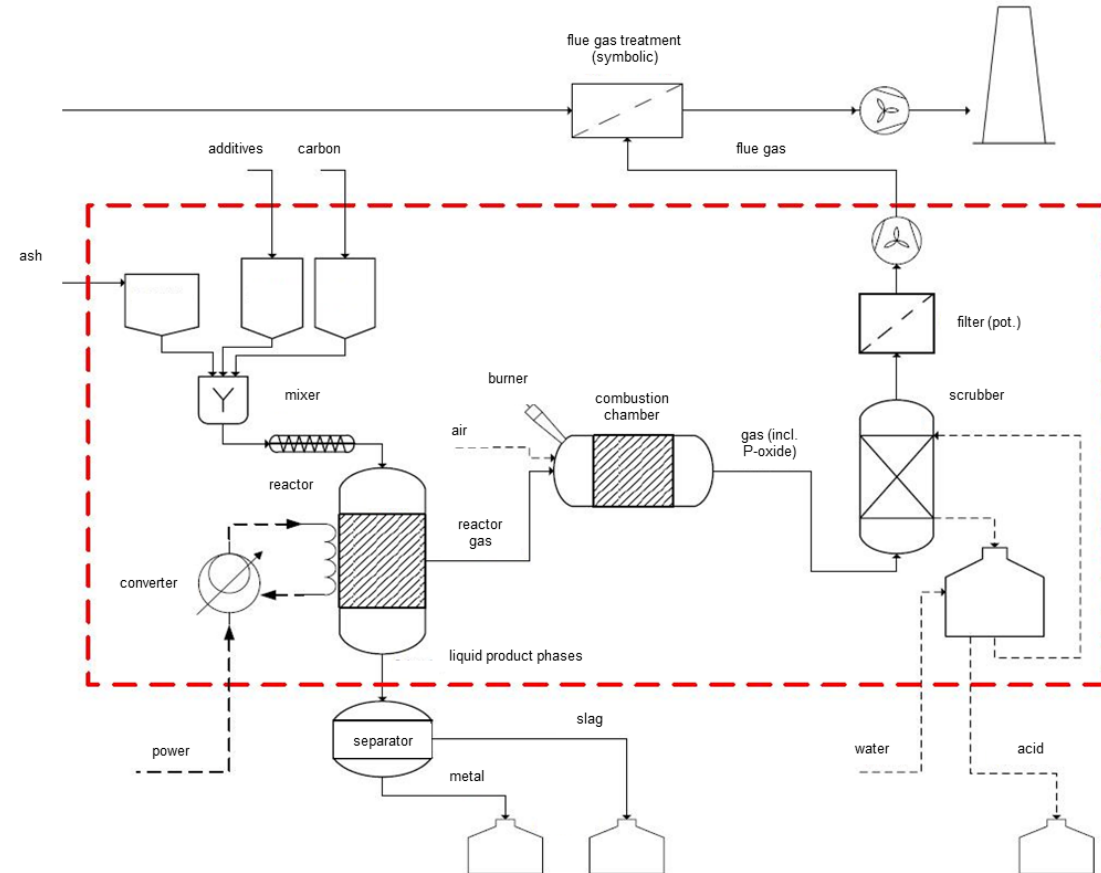


RecoPhos – process and pilot plant

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 Univ.-Prof. Dipl.-Ing. Dr.techn. Harald Raupenstrauch



50 kg/h specs



Conducted experiments and results

- sewage sludge ashes
 - >99% reduction of P- and Fe-components
 - >80% of P removed in elemental form
 - production and dry granulation of iron- and P-free product slag
- Li-ion batteries
 - 80% Li-gasification in preliminary experiments
 - potential production of any desired Li-compound
 - process adaption and improvement/reactor adaption and improvement, patent pending
- steelmaking slags
 - 85% P-gasification
 - iron-chromium-manganese alloy produced
 - production and dry granulation of metal- and P-free product slag

Project timeline and scale

- scale-up to 50 kg/h completed (engineering)
- 2021/2022: construction and test trials of 50 kg/h scale in international consortium
 - Montanuniversität Leoben
 - Christof Industries Austria GmbH
 - Wien Energie GmbH
 - S-PEC e.U.
 - Bay Zoltán Nonprofit Ltd.
- 2022-2024: scale-up to 500 kg/h based on 50 kg/h scale results

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