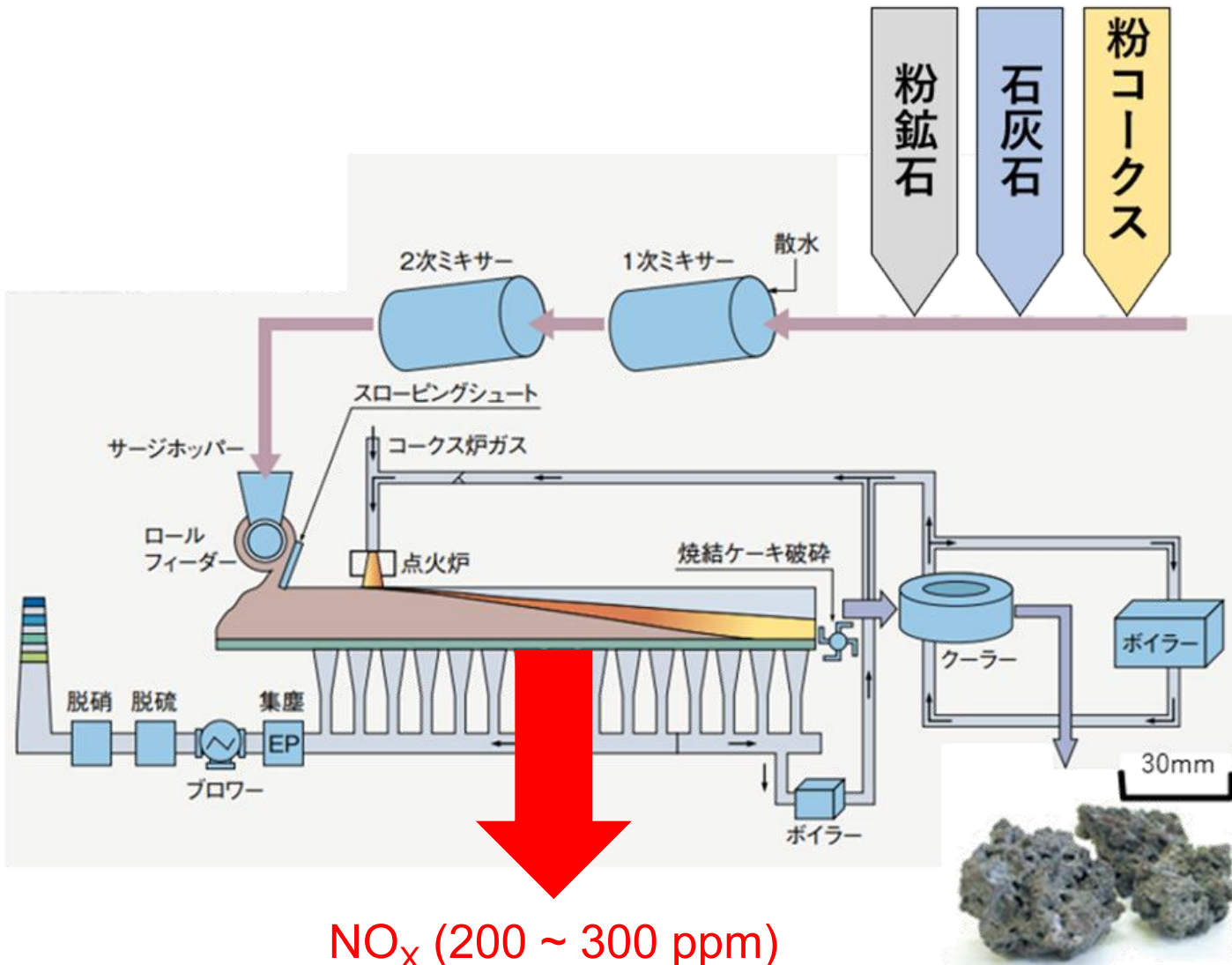


NO_x Emissions in the Steel Industry

NO_x generation in sintered ore production process:

Emission of NO_x is caused by the nitrogen contained in coke breeze.



NO_x (200 ~ 300 ppm)



Sintered ore



coke breeze
(website of Summit CRM, Ltd.)

Shunsuke Nagae:
Focusing on the NO_x Reduction Ability of
Reduced Calcium Ferrite.

Calcium Ferrite (CF): $\text{CaO} \cdot \text{Fe}_2\text{O}_3$

Research Objective

Quantitative evaluation of NO reduction performance using Reduced CF.

- Quantitative kinetic evaluation of the catalytic reaction under a CO-CO₂-NO-N₂ atmosphere.



- Experimental investigation of the **NO** reduction behavior under an O₂–CO₂–NO–N₂ atmosphere.
- Developing a device that continuously reduces NO by continuously supplying biomass char.