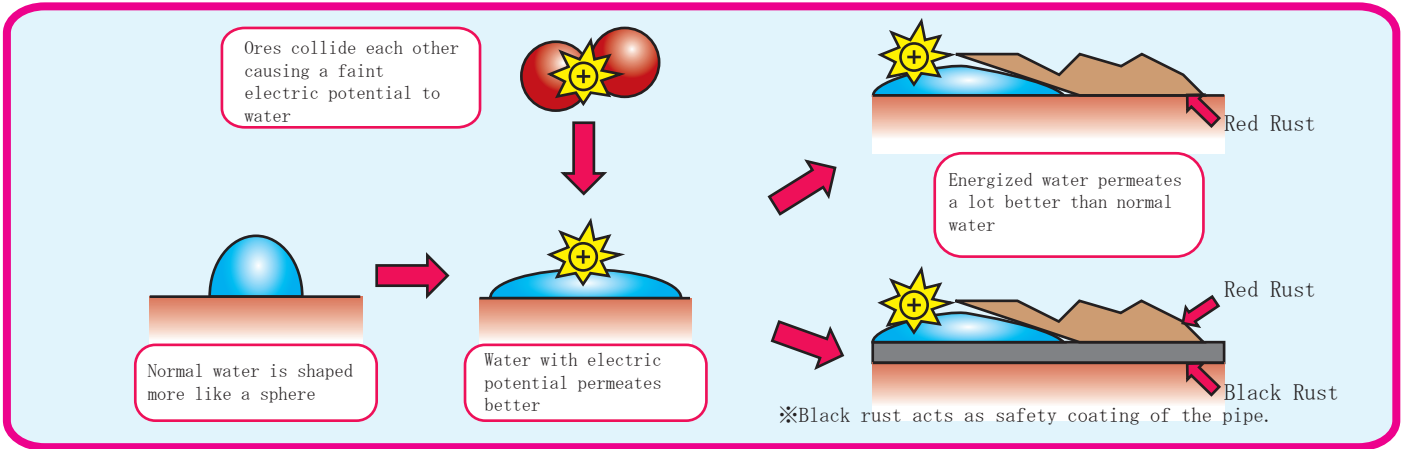
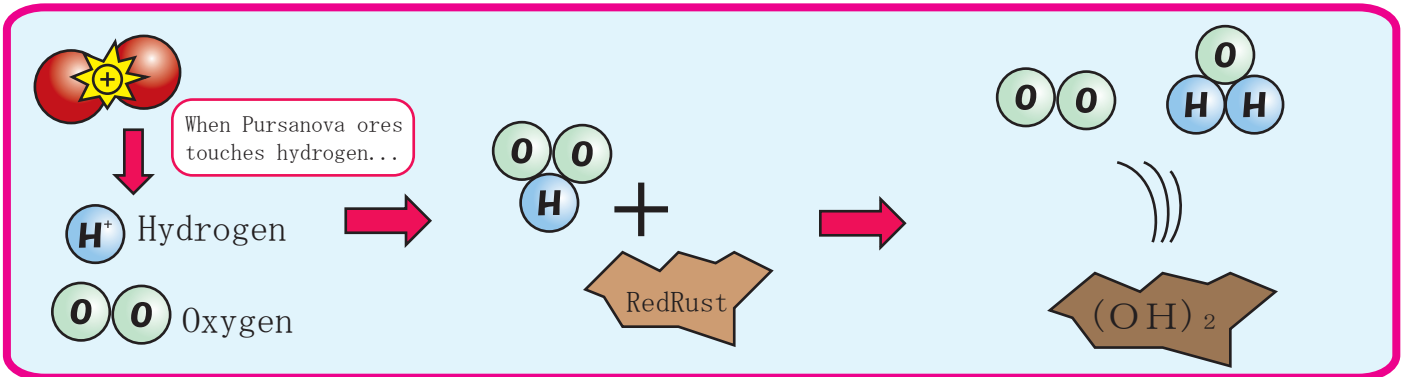
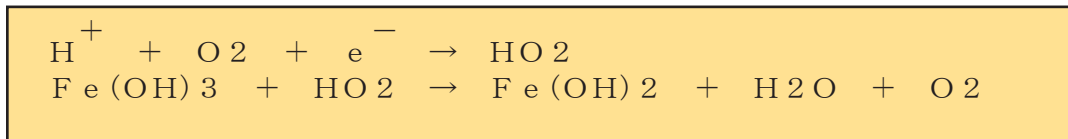


# The Cause of Red Rust

Red rust is caused by the steel pipe oxidation.  
 Electrokinetically energized water permeates to red rust and detaches red rust in the following continuation:  
 Water permeates & swell -> break down -> detach



Hydralex water causes the following chemical reaction in the water: Red rust  $Fe(OH)_3$



$Fe(OH)_2$  is a reduced version of the red rust.  
 The reduced  $Fe(OH)_2$  binds with  $Fe(OH)_3$  and changes into black rust (magnetite)  $Fe_3(OH)_8$   
 Black rust will act as a coating agent to protect the pipe.

