



Title: Electrification of Glass Conditioning: The SORG Viking Forehearth

New government rules require the global glass industry to stop using fossil fuels and quickly lower CO₂ emissions. Most green projects focus on the energy-heavy melting stage. However, glass conditioning is also a major and inefficient process. Conditioning usually takes 10% to 20% of the total furnace energy. This share is even higher for high-quality tableware, pharma glass, and longer forehearth. Other ideas like oxy-fuel heating did not work well in practice. Instead, oxygen burners often cause heavy damage to the material, corrosion, and high repair costs. Therefore, direct electric heating is now the best, safest, and most efficient solution for modern glass conditioning.

This presentation shows the different ways to change conditioning from gas to electricity. Finally, it introduces SORG's newest innovation, which has already been running for a few months: the SORG Viking forehearth. This system gives maximum energy efficiency and completely removes the need for fossil fuels.