

# OSCAR Pilot Scale Demonstration Process

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## Abstract

While dry sulfur dioxide scrubbers offer promising cost and simplicity benefits to flue gas scrubbing, they historically have not performed as well as wet scrubbers. As-mined calcium sorbents experience kinetically limited calcium diffusion through a developing calcium sulfate layer. OSU's work reforms the morphology of as-mined dry sorbents to increase pore sizes to 100-250A, with a revolutionary improvement in dry scrubber performance.

The process is currently being tested at Pilot Demonstration Scale, using a coal-fired slip stream. Work on the sorbent shows that it scrubs Hg<sup>++</sup>, As, and Se as well as sulfur dioxide, providing a promising multi-pollutant control system for utilities.