

The Leader in Pollution Control Equipment



INTERNATIONAL ACTIVITY FOR ENVIROCARE ADVANCED WET SCRUBBER TECHNOLOGY

2020 International Activity

EnviroCare is active and engaged in the international market for our wet scrubber products and evaporative cooling technologies. We have several active scrubber projects in Finland and Russia with manufacturing partners in Estonia and Germany. We have pollution control partners headquartered in Germany.

Andritz - Finland

EnviroCare has partnered with Andritz to provide a new MicroMist Venturi scrubber to a Finnish paper mill. The scrubber is designed to scrub lime kiln dust consisting of submicron particulate matter (PM). The stainless steel unit is 4.4mØ x 12m tall and was manufactured in Estonia. Startup is scheduled for October 2020.

Stamicarbon - Russia

EnviroCare has just delivered our MicroMist Venturi scrubber to a 1,500 mtpd urea production facility (~460,000 Am³/hr flow) in Russia. Stamicarbon, based in the Netherlands, is our partner for the fertilizer industry. For this urea plant application, we are required to guarantee urea dust PM as well as ammonia emission limits. The scrubber will utilize internal stages and technologies that are identical to sewage sludge incineration applications for PM and acid gases including SO₂ and HCl. For this project, we are working with one of our fabrication partners in the US. The scrubber is 3.6m x 9.7m x 24m tall and was fabricated in 316 stainless steel boxes to facilitate shipment and

erection at site. Startup is scheduled for second quarter of 2021.

Another Russian urea scrubber (2,000 mtpd) was just ordered and will be manufactured in Germany. This unit is 6.4m x 7.4m x 24m tall and fabricated of 304/316 stainless steel. The scrubber will remove urea dust and ammonia. Delivery is scheduled for September 2021 with start up in the second quarter of 2022.



EnviroCare International is working with large international companies for sewage sludge incineration projects including Veolia and Suez



Asia

We are currently bidding the IWMF sludge incineration project, and have been supporting Black & Veatch, the owner's consultant, since 2019. We have five MicroMist wet scrubbers that have been installed in Singapore since 2005.

We have a regional office in India and have long standing customers all over South and Southeast Asia, primarily at cement plants.

Toronto Canada

We have previously supplied six VenturiPak Scrubbers in Toronto Canada and two MercuryPak Scrubbers. These existing facilities include:

- GE Booth Lakeview Wastewater Treatment Plant. EnviroCare treats the emissions from four 100 metric dT/day fluidized bed incinerators. The scrubbers are 2.75mØ and 10m tall constructed of 316SS.
- Duffin Creek Water Pollution Control Plant. EnviroCare treats the emissions from two 105 metric dT/day fluidized bed incinerators. The scrubbers are 2.75mØ and 10m tall constructed of 316SS.

We are currently under contract to design and supply equipment for two new 66 dT/day fluidized bed

incinerators. Our equipment includes new VenturiPak Scrubbers, new Wet ESP's, and new MercuryPak scrubbers for the City of Toronto to meet the world's most stringent sewage sludge incineration emissions standards. This facility has taken advantage of our scrubber and WESP technologies to combine them into a single vessel to reduce footprint. The scrubber/wet ESP combination vessel is 2.6mØ by 12m tall fabricated using 316SS.

North America - USA

Our technology is considered MACT and BACT in the US for the 2016 MACT 129 SSI Regulations. We have supplied over 100 VenturiPak scrubbers, Wet ESPs, and MercuryPak scrubbers for customers all across the US using fluidized bed incineration or multiple hearth furnace technologies. This experience over the past 25 years has allowed us to be responsive to international inquiries and resulted in our technologies and data to be referenced in the new EU BREF document.



We look forward to forming long lasting partnerships with our International customers to meet your air pollution control needs. Do not hesitate to reach out with any questions regarding our technologies.

Respectfully,

Marcel Pomerleau – VP Sales
EnviroCare International

Contact Us For More Information

Email:
marcel_pomerleau@envirocare.com

Phone:
+1.707.638.6834

Address:
507 Green Island Rd
American Canyon, CA 94503 USA

EnviroCare International
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