



- PORTABLE CONTINUOUS MONITORING
- CLOSING OF MERCURY BALANCE
- MERCURY REMOVAL CONCEPTS

APPLICATION	TECHNICAL DATA	SCOPE OF SUPPLY
<p>Fields of Application</p> <ul style="list-style-type: none"> ▪ Speciation and quantification of elemental, oxidized and particulate mercury ▪ Testing of permanent emission monitoring systems (single probes and long term) ▪ Plausibility checks ▪ Testing of influencing parameters (fast response time) <p>Benefits</p> <ul style="list-style-type: none"> ▪ Portable modular design ▪ Quick and easy transport ▪ Integrated calibration 	<ul style="list-style-type: none"> ▪ High sensitivity: 0.05 µg/m³ ▪ Fast response: t(90) = 180 s ▪ Calibration certified (U.S. National Institute of Standards and Technology) <p>FOCUSSED FUEL TYPES</p> <ul style="list-style-type: none"> ▪ Bituminous Coal ▪ Lignite ▪ Waste ▪ Sludge ▪ Oil 	<ul style="list-style-type: none"> ▪ Analyzer rental ▪ Measurement planning & execution ▪ Remote monitoring possible ▪ Consulting <ul style="list-style-type: none"> ▪ Closing of mercury balance ▪ Plant specific mercury removal concepts (choice of removal technologies) ▪ Engineering assistance, e.g. feasibility studies

REFERENCE LIST EXCERPT

REFERENCE	CLIENT
Recording of mercury removal in correlation to SO ₂ removal. Assessment of sources and sinks of mercury, 530 t/h, Bituminous Coal, CHP Fenne, Völklingen, Germany	STEAG AG, Saar-Völklingen, Germany
Switch of neutralizing agent in the FGD and evaluation its repercussion on mercury removal, 35 t/h, Lignite, Plant Brottewitz, Germany	Südzucker Werk, Brottewitz, Germany
Assessment of chemical heavy metal precipitation and corresponding adjustment of the absorber water cycle, 750 MWel, Bituminous Coal, Mehrum PS, Germany	KW Mehrum GmbH, Hohenhameln, Germany
Increase of the SO ₂ capture in the second stage of a two-stage wet scrubber without negative effects on the overall mercury removal rate, 5.2 MWel, Vera Hamburg, Germany	Hamburg Stadtentwässerung AöR, Hamburg, Germany
Increase of SO ₂ capture in a two-stage wet FGD scrubber without reducing mercury removal rate, 22 MWth, Herten Waste-to-energy plant, Germany	AGR Betriebsführung GmbH, Herten, Germany
BREF impact study and concept development on mercury removal in the FGD, Lignite, 227 MWel, Maritza East 3, Maritza, Bulgaria	ContourGlobal Maritza East 3, Sofia, Bulgaria
Petcoke (co-)combustion study, quantification of the corresponding increase in heavy metals' concentrations, 200 t/h, Heavy Fuel Oil and Low-Pressure-Gas, Shell Wesseling, Germany	Shell Deutschland Oil GmbH, Wesseling, Germany
Consulting & engineering support to assess sources and sinks of mercury in the power plant, Lignite, 188 MWth, Amsdorf PS, Germany	Romonta GmbH, Seegebiet Mansfelder Land, Germany
Consulting and engineering support to assess sources and sinks of mercury in the power plant, 11x250 MWel, Lignite, Jänschwalde PS, Germany	Lausitz Energie Kraftwerk AG, Cottbus, Germany

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