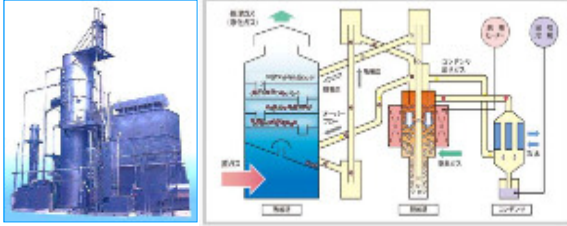
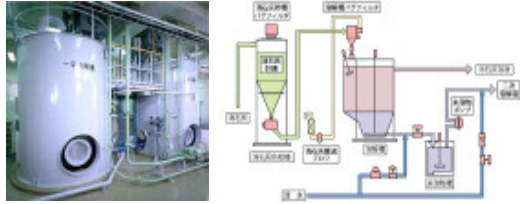


Kawasaki Green Innovation Cluster		Member Information		Management Number	Section Number	Company
Business Classification		Solid Waste and Recycling				
Business Field		Engineering services for collection, transportation and intermediate processing of waste				
Company/Organization Information	Company Name	株式会社クレハ環境				
	Company Name (EN)	Kureha Ecology Management Co., Ltd.				
	President	President & Representative Director - Katsuhiko NATAKE				
	Address	30 Shitanda, Nishiki-machi, Iwaki City, Fukushima				
	Contact	+81-246-63-1231				
	Capital	240 million yen				
	No. of Employees	344 (as of Sept. 2016)				
	E-mail					
	Website	http://www.kurekan.co.jp/en/				
	Branches/Agencies	Japan: Headquarter and 6 offices (Related to waste: Kawasaki, Sendai, Ibaraki, Tokyo, Mie; Related to environmental engineering: Osaka) Overseas: None				
Business Activities, Messages and Others	Business Activities	<p>We are working to preserve the environment through collection, transportation and intermediate processing of industrial waste, and comprehensive engineering service of environment related equipment.</p> <p>We develop technologies based on customer needs, supply VOC exhaust gas treatment equipment and wastewater treatment equipment, offer equipment operation and management support. contained in exhaust gas of production facilities in environment related facilities. We are playing a part in the industrial revitalization of "City of Manufacturing - Kawasaki" as a venous (recycling and detoxification) industry through the appropriate treatment of various types of waste such as detoxification treatment of POPs (low concentration PCB, PFOS) etc, handling medical waste, disposing of waste created by disasters.</p> <p>Wastech Kanagawa, a 4.8 MW biomass power plant, was established in order to help create a low-carbon society. Wastech Kanagawa is contributing to the regional energy supply.</p>				
	Messages / Others	<p>Kureha Ecology Management started participating in the Non-Profit Organization Liaison Center for Creation of Industry & Environment and then began working with companies in the Kawasaki coastal area. We've also cooperated with local environment-related enterprises to create new projects, and try to create new businesses with environment-related local enterprises in Kawasaki city. We are also participating in the formulation of the Kawasaki Coastal Area Vision, a plan for the development of the area into the next 30 years, and are continually making efforts to become the sort of company that is increasingly needed in the future.</p>				
	Examples of Products	<p>■Product/ Technology</p> <p>GASTAK: solvent recovery, deodorization, exhaust gas treatment equipment Honest Limer: water treatment facility, improvement of water quality, extension of pipe life cycle Activated carbon purification treatment equipment: Removal of mildew and other unpleasant odors and tastes from raw water; absorption and removal of fats and oils Air and water environment related equipment such as automated equipment</p> <p>■Technical service</p> <p>Proper collection, handling and incineration of difficult-to-process industrial waste Biomass (paper scraps, wood chips, fiber scraps, animal and vegetable residues) power generation</p>				

Kawasaki Green Innovation Cluster Product/Technology Information		Management Number	Section Number	Company
Business Classification		Solid Waste and Recycling		
Business Field		Engineering services for collection, transportation and intermediate processing of waste		
Company Name		Kureha Ecology Management Co., Ltd.		
Products/Technology		Environment-related equipment (VOC exhaust gas treatment equipment GASTAK, water treatment equipment Honest Limer)		
Overview of Products/Technology	Features	<p>① GASTAK: a VOC / exhaust gas treatment system using reusable granular activated carbon (Kureha's unique technology) as an adsorbent. It is aimed at recovering the organic solvents and removing harmful and malodorous substances from exhaust gas. "Kureha spherical activated carbon" "G-BAC" is high-strength activated carbon with high sphericity, and it has excellent abrasion resistance and fluidity.</p> <p>② HONEST LIMER: It is slaked lime automatic dissolution injection equipment for water utilities. It has been implemented in many water purification plants throughout the country and contributes not only to the prevention of rusty water but also to the prolonged life cycles of water supply equipment (water purification water distribution equipment) and pipes by preventing corrosion. Safe and delicious water can be provided by improving the Langelier Index (an indicator of water corrosiveness).</p>		
	Keywords	<p>① VOC exhaust gas treatment equipment, volatile organic solvent recovery, air purification, BAC spherical activated carbon, circulating deodorizing equipment</p> <p>② Purified water distribution equipment, calcium hydroxide, rusty water prevention</p>		
	Price			
Detailed Information about Products/Technology	Details	<p>① GASTAK: A lineup of products to suit needs up to a process rate of ~ 1,400 m³/min</p> <p>② Honest Limer water amount: Slaked lime injection up to ~ 500,000 m³/day.</p>		
	Capabilities			
	Cost			
	Life cycle			
	Remarks			
	Pictures relating to products and technologies	<p>① GASTAK system photo and system flowchart for reference.</p>  <p>② Honest Limer system photo and system flowchart (for reference)</p>  <p style="text-align: center;"> 《HN Type》 《SN Type》 </p>		
Advantages	Patent and award history	<p>① GASTAK: Japan Industrial Machinery Industry Association Chairman's Award Winner in 2003</p> <p>② Honest Limer: several domestic patents</p>		
	Examples of use (Domestic and overseas)	<p>① GASTAK: Japan: more than 550 units, Overseas (Taiwan, China,...): 40 units</p> <p>② Honest Limer: more than 300 units in water purification plants, etc., throughout Japan</p>		

Kawasaki Green Innovation Cluster		Service Information	Management Number	Section Number	Company
Business Classification		Solid Waste and Recycling			
Business Field		Engineering services for collection, transportation and intermediate processing of waste			
Company Name		Kureha Ecology Management Co., Ltd.			
Services		Proper treatment of difficult-to-treat industrial waste, power generation project from waste			
Overview of Services	Features	Wastech Iwaki, an incineration facility located in Iwaki City, Fukushima Prefecture, is well-suited for processing waste containing harmful substances such as halogenous waste, medical waste and heavy metals including fluorine and chlorine. In "Kanagawa West" of Kawasaki city, we are performing the thermal recycling using electricity generation using biomass (paper scraps, wood chips, fiber scraps, animal and vegetable residues), waste plastics, waste heat from medical waste incineration. We have also established "Kawasaki Logistics Center" as a logistics center in the Keihin area and provide services that can respond to a wide range of customer needs.			
	Keywords	· POPs (low concentration PCB waste, PFOS) · halogen compounds such as chlorine, fluorine and bromine · dioxins · reaction intermediates in the production of chemicals and pharmaceuticals · sulfuric acid pitch · specially controlled industrial waste · specified hazardous industrial waste · Biomass · Thermal recycling · Material recycling			
	Reference price				
Advantages	Achievements	<ul style="list-style-type: none"> · FY 2013 Ministry of the Environment Japan Circulation Industry Overseas Expansion Business Promotion Project: "Industrial Solid Waste Suitable Harmless Treatment Project for Jiangsu Province, China" Project (survey support, etc) · FY2016 NEDO Global warming vs. technology promotion project (JCM feasibility study) "JCM feasibility study through packaged introduction of wood biomass power generation technology in Penang province, Malaysia" · On November 26, 2015, obtained certification for the detoxification treatment of low-concentration polychlorinated biphenyl waste from the Minister of the Environment 			