| Kawasaki Green Innovation Cluster Member Information | | | Company | | | |
|---|-------------------------|--|----------|--------|--|--|
| Business Classification Soil, Water treatment Business | | | | | | |
| Business Field Sales and Development of Adsorbents for problematic soil and water contains. | | | r contam | inants | | |
| | | | | | | |
| Company/Organization Information | Company Name | 株式会社日本海水 | | | | |
| | Company Name (EN) | Nihon kaisui Co., Ltd. | | | | |
| | President | Masahiro Kanazawa | | | | |
| | Address | Ochanomizu-NK Building-7 F, 4-2-5, Kandaurugadai , Chiyoda-ku, Tokyo, Japan | | | | |
| izat | Contact | +81-3-3256-8311 | | | | |
| gani | Capital | Jyen 1,319 million (End of March 2018) | | | | |
| /Or | No. of Employees | 689 (End of March 2018, consolidated) | | | | |
| any | E-mail | read@nihonkaisui.co.jp | | | | |
| ďu | Website | http://www.nihonkaisui.co.jp/ | | | | |
| Co | Branches/ | Japan 7 offices | | | | |
| | Agencies | Overseas | | | | |
| tivities, Messages and Others | Business Activities | As a leading company in Japan having the top market share of salt, Nihon kaisui Co., Ltd has been delivering secure and safe salt to everyone for many years. Based on our spirit of "technological potentials" and "traditions of craftsmanship" developed through the production of salt as ocean's bounty, we engage in environment, foods and agricultural business by exploiting infinite seawater resource. The products of the Environment Division include: 1) magnesium hydroxide slurry used for desulfurization/neutralization of coal power plants, 2) the adsorbent READ series to remove arsenic, fluorine and boron which are often technically difficult to remove, 3) ozone treatment facility using nanobubbles capable of treating hardly decomposable organic matter. | | | | |
| | Message/ Other | Although we have abundant track record in Japan for the sales of the hazardous substance adsorbent, our business operation has just begun to overseas. We are seeking collaborators who have business interests in water business in Southeast Asia | | | | |
| s Ac | | * Adsorbent for fluorine removal READ-F (HG) | | _ | | |
| Business Activities, | | * Adsorbent for arsenic removal READ-As | | | | |
| | Examples of Products | * Adsorbent for boron removal READ-B (MC) | | | | |

| Kawasaki Green Innovation Cl | | tion Cluster Product Technology Information | Management Number | Section Number | Company |
|--|--|--|----------------------|-------------------|---------|
| Bus | siness Classification | Soil, Water treatment Business | | ' | |
| | Business Field | Sales and Development of Adsorbents for problematic soil and water contaminants | | | |
| | Company Name | Nihon kaisui Co., Ltd | | | |
| Pı | roduct/Technology | Adsorbent for arsenic removal READ-As | | | |
| Overview of Products/Technologies | Features | Higher Performance than other products in the Capable of processing regardless of number of Recyclable by regeneration process Potential applicability to beverage industry Abundant track record of sales in Japan. | | rsenic | |
| rview | Keywords | Wastewater treatment, applicability to beverage industry, arsenic, compact, advanced treatment | | | |
| Ove | Price | | | | |
| | Details | Arsenic in water can be continuously removed to achieve the Japan's environmental standard at 0.01 mg / L by using adsorption tower packed with the Adsorbent. The frequency of regeneration cycle depends on concentration and water flow rate. | | | |
| gies | Capabilities | The basic adsorbent volume is proportional to water volume treated per hour divided by 10 | | | our |
| olou | Cost | Installation of adsorption tower is necessary in addition to the adsorbent. | | | ent. |
| s/Techi | Life cycle | Normally it needs replacement every 7 years | | | |
| roduct | Remarks | In operating regeneration business, a base in the field is necessary. | | | |
| Detailed Information about Products/Technologies | Pictures relating to products and technologies | READ-As adsorbent Simplified arsenic processing equipment Spring water arsenic processing equipment (large scale) | | ent | |
| Advantages | Patent and award history | Global 100 Eco—Tech Awards in Exposition of Global Harmony http://www.expo2005.or.jp/jp/N0/N2/N2.6/N2.6.166/ | | | |
| | Examples of use (Domestic and overseas) | The Equipment installed in Bangladesh by UNIDO in 2006 Recent large scale contracts include: the two spring water treatment equipmen installed between the KEINAWA(connect the Kyoto-Nara-Wakayama) Expressway. | | | |

| Kawasaki Green Innovatio | | tion Cluster Product Technology Information | Management Number | Section Number | Company |
|--|--|---|----------------------|-------------------|---------|
| Bus | siness Classification | Soil, Water treatment Business | | | |
| | Business Field | Sales and Development of Adsorbents for problematic soil and water contaminants | | | |
| Company Name | | Nihon kaisui Co., Ltd | | | |
| Product/Technology | | Adsorbent for fluorine removal READ-F(HG) | | | |
| Overview of Products/Technologies | Features | Higher Performance than other products in the Suited for advanced treatment process Recyclable by regeneration process Abundant track record of sales in Japan and over the product of the product | | | |
| | Keywords | Wastewater treatment, fluorine, advanced treatm | nent, cost red | luction | |
| Ь | Price | | | | |
| | Details | Fluorine in water can be continuously removed by using adsorption tower packed with the Adsorbent. Reusable by alkaline cleansing to remove fluoride. The frequency of regeneration cycle depends on concentration and water flow rate. | | | |
| es | Capabilities | The basic adsorbent volume is proportional to water volume treated per hour divided by 20 | | | |
| chnologi | Cost | Installation of adsorption tower and regeneration unit are necessary in addition to the adsorbent. | | | |
| cts/Tec | Life cycle | Normally it needs replacement of 10 to 20 % of the adsorbent /annum | | | |
| t Produ | Remarks | Application of the adsorbent to high concentration wastewater causes not efficiency due to adsorption capacity of the material. | | | |
| Detailed Information about Products/Technologies | Pictures relating to products and technologies | READ-F (HG) Adsorbent Fluoride Adsorption Single Tower Fluoride Adsorption Dual Tower | | | |
| Advantages | Patent and award history | Patented in Japan, PCT filled in China and Korea | | | |
| | Examples of use (Domestic and overseas) | Abundant track record of sales in Japan includir thermal power plants. In overseas market, the products were sold to Ja and thermal power plants. | | | |

| Kawasaki Green Innovation Cluster Product Technology Information Management Number Number Number | | | | | |
|---|--|---|--|--|--|
| Bus | siness Classification | Soil, Water treatment Business | | | |
| Business Field | | Sales and Development of Adsorbents for problematic soil and water contaminants | | | |
| Company Name | | Nihon kaisui Co., Ltd | | | |
| Pr | oduct/Technology | Adsorbent for boron removal READ-B(MC) | | | |
| Overview of Products/Technologies | Features | Higher Performance than other products in the market Suited for advanced treatment process Recyclable by regeneration process Abundant track record of sales in Japan. | | | |
| | Keywords | Wastewater treatment, boron, advanced treatment, cost reduction | | | |
| Ь | Price | | | | |
| | Details | Boron in water can be continuously removed by using adsorption tower packed with the Adsorbent. Reusable by acid cleansing to remove boron The frequency of regeneration cycle depends on concentration and water flow rate. | | | |
| ies | Capabilities | The basic adsorbent volume is proportional to water volume treated per hour divided by 10 | | | |
| chnolog | Cost | Installation of adsorption tower and regeneration unit are necessary in addition to the adsorbent. | | | |
| cts/Te | Life cycle | Normally it needs replacement of 10 to 20 % of the adsorbent /annum | | | |
| ıt Produ | Remarks | Application of the adsorbent to high concentration wastewater causes not efficiency due to adsorption capacity of the material. | | | |
| Detailed Information about Products/Technologies | Pictures relating to products and technologies | Comparison with competing product on ther performance Comparison with competing product on the performance Conditions B=20mg/L pH=7.0 SV=10/hr SV=10/hr | | | |
| Advantages | Patent and award history | | | | |
| | Examples of use (Domestic and overseas) | Abundant track record of sales in Japan including leachate treatment process for Industrial waste disposal site and wastewater from machine factory. | | | |