Investment Opportunities
Renewable Energy / Environment: Dissolved Ozone Flotation (DOF) System

Investment Highlights

- **Dissolved ozone flotation (DOF) system**: Our unique technology can control the levels of ozone to be injected into water. Our dissolved ozone flotation (DOF) system has a single process that combines ozonation and dissolved air flotation (DAF). In other words, it is designed to remove suspended solids and obtain ozone’s strong oxidizing ability by using ozone instead of air. The different treatment characteristics of the DOF process can be used to treat drinking water and sewage or wastewater. In addition, the application of DOF technology is considered effective in the disinfection of environmental surfaces in the context of COVID-19.

- **Environmental services industry outlook**: The sewage and wastewater sector accounts for approximately 40% to 50% of the global water market. The wastewater treatment services market size and the industrial wastewater treatment market size are projected to reach USD 355 billion and USD 57 billion, respectively, by 2025. In particular, the sewage/wastewater reuse sector size is expected to increase rapidly, reaching USD 21 billion by 2025 from USD 1.0 billion in 2007. The United States, the leader in the water market, has a market size of USD 102.1 billion. Meanwhile, the water market is projected to grow at a compound annual growth rate (CAGR) of 1.3%, with the wastewater treatment market and the water treatment construction market growing at a CAGR of 1.2% and 2.1%, respectively, over the next 5 years.

Products and Services

**Product and Technology**

- **Key features of core technology**
  - The self-control over levels of ozone to be injected ensures diverse applications to water and wastewater treatment processes.
  - The system can remove color, chemical oxygen demand (COD), nonbiodegradable organic matter, bacteria, odors, and toxic substances.
  - Pressurized ozone with higher-level contact requires a smaller tank, and the high electrochemical energy increases treatment efficiency.
  - In addition to superior treatment efficiency compared to other technologies, an additional ozone contact tank is no longer needed, thereby decreasing the site area required.
  - Because everything is done in a single process, the residence time is short, and the costs of construction and operation are affordable.

- **Competitiveness of core technology**
  - Our original technology is intended to control ozone levels in water by controlling air pressure to pressurize ozone into the pressure tank.
  - Our ozone level control technology is unique in the world, ensuring unmatched market competitiveness.
  - It regulates ozone levels depending on the characteristics of sewage or wastewater.
  - The DOF system is available in various sizes and provides a total solution that covers design, engineering, and construction.

**Potential Clients**

- Indonesia: PT PITTS (K-Water) and PT PP Infrastructure
- Vietnam: AIPT Group
- US: EST & ES, Inc.
- China: Four Star Corp.
- Kuwait: Castillo Co., Ltd.
- Egypt: International Desalination & Water Treatment Group
- Philippines: Michigan Technology Philippines
Company Profile

Date of Establishment • March 2002
Investment Performance • N/A
Listed or Unlisted • Unlisted
Patents and Certificates • The DOF system is a technology that combines DAF, which is excellent at separating water from solid components, with the most powerful oxidant, ozone, in a single process.
• Registration of 13 domestic patents
• Designated and verified as New Excellent Technology
• Acquired a Green Certification from the Ministry of Environment

Financial Figures

(Unit: USD million)

<table>
<thead>
<tr>
<th>Division</th>
<th>2017 (Unaudited)</th>
<th>2018 (Unaudited)</th>
<th>2019 (Unaudited)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td>0.52</td>
<td>0.78</td>
<td>0.97</td>
</tr>
<tr>
<td>Operating Income</td>
<td>(0.07)</td>
<td>(0.05)</td>
<td>(0.05)</td>
</tr>
<tr>
<td>EBITDA</td>
<td>(0.07)</td>
<td>(0.05)</td>
<td>(0.05)</td>
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</tbody>
</table>

Business Plan

(Unit: USD million)

<table>
<thead>
<tr>
<th>Division</th>
<th>2020 (Forecast)</th>
<th>2021 (Forecast)</th>
<th>2022 (Forecast)</th>
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</thead>
<tbody>
<tr>
<td>Sales</td>
<td>2.17</td>
<td>10.41</td>
<td>24.15</td>
</tr>
<tr>
<td>Capital Expenditure</td>
<td>0.83</td>
<td>1.25</td>
<td>0.42</td>
</tr>
<tr>
<td>Working Capital</td>
<td>0.42</td>
<td>0.58</td>
<td>0.67</td>
</tr>
<tr>
<td>R&amp;D</td>
<td>0.42</td>
<td>0.42</td>
<td>0.42</td>
</tr>
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• Sales plan: Our DOF system and electrochemical oxidation (ECO) system will be supplied to EST & ES (US) after the conclusion of a memorandum of understanding. Our company has completed a consultation on the supply of the DOF system and the private investment in the construction of a purification plant with PT PITS and PT PP Infrastructure (Indonesia). The use of DOF system technology is also being discussed with the consulting company Seven Gates. As a result, it is expected to achieve sales of USD 24.15 million in 2022.

• Investment required: Our company is planning to pursue a private investment in the construction of a water purification plant in Indonesia and to develop a personal water purifier (small) to be supplied to Southeast Asia, Africa, and India as well as a small ozone sterilizer in preparation for the post–COVID-19 era. In achieving the goals and the target sales, a total of USD 5.41 million (including USD 2.50 million in capital expenditures and USD 1.25 million in R&D) will be invested for the next 3 years.

Investment Requirements

Investment Structure • All available
Amount • USD 5 million
Region • North America, Europe, Japan, China

For more detail Teaser Memorandum and information please contact below Project Manager
Renewable Energy/Environment PM: ikmp@kotra.or.kr