the Green Hydrogen Ecosystem harnessing the Power of Technology
Company Overview

Our vision is to forge the world’s foremost renewable energy generation enterprise, leveraging cutting-edge technology for unparalleled efficiency.

### Company Overview

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Sustech, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established</td>
<td>Jun. 2021</td>
</tr>
<tr>
<td>Fund AUM</td>
<td>$1.1B</td>
</tr>
<tr>
<td>HQ</td>
<td>Tokyo, Japan</td>
</tr>
<tr>
<td># of Employees</td>
<td>40 employees</td>
</tr>
<tr>
<td>Representative</td>
<td>Yusuke Tanno, Yuichiro Iida</td>
</tr>
</tbody>
</table>

### Our Partners

- SUMITOMO MITSUI TRUST BANK
- JERA
- MIZUHO
- NITORI
- SHARP
- YONDEN
- NGK
- Mitsui Chemicals
- SUM GROUP
- ... 

### 3 main AI solution

#### AI Fault Detection/Prediction
- Monitor power plants, predict faults, mitigate supply and demand imbalances caused by sudden drops.
- Maximize operational efficiency in monitoring power plants.

#### Advanced Re-Energy Management
- With unique leading energy management system “ELIC”, providing highly profitable non-FIT re-energy plant operation and management.
- Accumulated strong 3GW+ pipeline globally

#### GHG Calculation/Assesment
- Enabling efficient and effective GHG assessment for both enterprise (Scope 1-3) and product (Carbon foot-print)
Asia No.1 Renewables Fund
We have successfully formed Asia's largest renewable energy fund.

Asia No.1 Renewables Fund: $1.0Bn

- A subsidiary of Sustech acts as the GP overseeing all aspects of fund management.

Business Model Change

- Onsite / Offsite Corporate PPA Model
- Energy aggregation Model

Onsite
Build power plants on or near warehouses and factory roofs to purchase electricity

Offsite
Build a power plant in a remote location and purchase electricity by way of grid

A model the government or utilities purchase renewables for a fixed period, fixed price

Asian largest renewable energy investment fund, capable of investing in non-FIT power plants, adapting to business model changes
Sustech, Inc.
CTO/COO, Board of Directors

Akifumi Ohashi

• Master's degree in Astronautics from the University of Tokyo
• Specialized in liquid rocket engines and cryogenic liquid fuel management such as Liquid Hydrogen
• Contributed to collaborative development of hydrogen transport ships
• Served as a director in a subsidiary of a listed company, overseeing the execution of business and technologies
• Led the development of new business for clients in multiple ASEAN countries (Vietnam, China, Mongolia etc.)
• Launched and managed a Tech platform, serving as the PMO, and successfully facilitated its acquisition by a listed company
• As the CTO/COO, responsible for business development, strategy execution, and product development at Sustech
The most crucial factor in the widespread adoption of Green H$_2$ is determining how much we can reduce the final cost.
Drastic growth of renewables are indispensable for establishing the large-scale green hydrogen value chain.

500 Mt
Required green hydrogen volume in 2025 under the Net-Zero scenario

x 8.3
Total solar and wind electricity generated in 2023

2: Assuming 50kWh/kg-H2, Energy Institute Statistical Review of World Energy
Sustech offers next-gen energy solution which enables the “Performance Improvement” of renewables and “Zero Blackouts” in the era of transformative energy transition.

**ELIC**
Next-gen energy management platform with the world-best-in-class AI performance

**Performance Improvement**
- Provides automated & optimal sales planning, enabling electricity sales to the highest-priced location for each second.
- Maximizes performance of your renewable energy portfolio through automated fault detection and edge data analytics.

**Zero Blackout**
- Minimize electricity loss and become the solution for curtailment. Also enables 24/7 renewable supply by time-shifting.
- Mitigate supply-demand imbalances by optimizing battery/pumped storage, and significantly reduce the risk of blackouts.
Sustech offers next-gen energy solution which enables the “Performance Improvement” of renewables and “Zero Blackouts” in the era of transformative energy transition.

Costly Storage Battery

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>CAPEX / MW</th>
<th>Lifespan</th>
<th>CAPEX / Lifespan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>~$2.1b</td>
<td>15yrs</td>
<td>$140m</td>
</tr>
<tr>
<td>Wind</td>
<td>~$1b</td>
<td>40yrs</td>
<td>$38m</td>
</tr>
<tr>
<td>Solar</td>
<td>~$1.5b</td>
<td>30yrs</td>
<td>$33m</td>
</tr>
<tr>
<td>Hydro</td>
<td>~$1b</td>
<td>100yrs</td>
<td>$10m</td>
</tr>
<tr>
<td>Thermal</td>
<td>~$0.5b</td>
<td>50yrs</td>
<td>$10m</td>
</tr>
</tbody>
</table>

In addition to implementation cost, large amount of rare metal (Cobalt, Nickel, Lithium, etc.) as raw material casts geographical risk for large installation.
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Mission

Design the Energy New Era

A world driven by renewable and new energy sources, can be realized by our cutting-edge technologies, such as power generation forecasting, supply and demand adjustment, grid load shedding and fault detection AI.
As the share of renewables increases, challenges will be appearing for maintaining stable grid

Upcoming challenges

Phase 1
As the large and decentralized renewable energy power plants increase, making it more difficult to detect and manage faults of plant

Phase 2
Unpredictable renewable energy generation increases the loads on the grid and causes blackouts

Phase 3
New policy is starting adoption, and power generator started to owe obligation and penalty

Phase 4
Discrepancy btw supply and demand peak require large CAPEX of storage installation

Share of Variable Renewables

0% 50%+

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Sustech, in collaboration with Japanese retail companies, is working on power management which enables the optimized RE sharing btw remote locations, and maximizes the use of rooftop spaces for the solar plant development.

**Case Study | Virtual Corporate Grid**

Forecasting of power generation and on-site power consumption

Optimization of storage battery operation

Monitoring of real-time performance and status of every equipment
Development of urban-scale virtual grid is underway in Vietnam

Vang Phong Economic Zone
- 150,000ha of planned development
- Commercial, Port Development, Residential, etc.

Partner

Vietnam’s leading real estate developer