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>
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<tbody>
<tr>
<td>Established</td>
<td>Jun. 2021</td>
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<td>Fund AUM</td>
<td>$1.1B</td>
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<tr>
<td>HQ</td>
<td>Tokyo, Japan</td>
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<tr>
<td>Representative</td>
<td>Yusuke Tanno, Yuichiro Iida</td>
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Our Partners

SUMITOMO MITSUI TRUST BANK

JERA

MIZUHO

SHARP

Mitsui Chemicals

GHG Calculation

■ Enabling efficient and effective GHG assessment for both enterprise (Scope1-3) and product (Carbon foot-print)

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

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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

Asian **largest renewable energy investment fund**, capable of investing in non-FIT power plants, adapting to business model changes

A model the government or utilities purchase renewables for a **fixed period, fixed price**
As the share of renewables increases, challenges will be appearing for maintaining stable grid

**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.
Our Solution

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
- ELIC Power
  - Prediction
  - Market Trading
  - Provides automated & optimal sales planning, enabling electricity sales to the highest-priced location for each second.

- ELIC Link
  - Logger
  - Fault Detection
  - Maximizes performance of your renewable energy portfolio through automated fault detection and edge data analytics.

Zero Blackout
- ELIC Storage
  - Battery Control
  - Renewable 24/7
  - Minimize electricity loss and become the solution for curtailment. Also enables 24/7 renewable supply by time-shifting.

- ELIC Grid
  - Grid Stabilization
  - Storage Control
  - Mitigate supply-demand imbalances by optimizing battery/pumped storage, and significantly reduce the risk of blackouts.

98% Generation Forecasting Accuracy
96% Market Price Forecasting Accuracy
30% Profitability Improvement for Storage Battery

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Today’s Speaker

Akifumi is taking the lead for global engineering team

Akifumi Ohashi

Sustech, Inc.
CTO/COO, Board of Directors

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

**Case Study | Virtual Corporate Grid**

Key digital technologies applied under 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

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Virtual Grid Zone Strategy

Development of urban-scale virtual grid is underway with local partners.

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

Partner
Vietnam’s leading real estate developer
As the result, by applying virtual corporate grid scheme, up to 100% of electricity can be covered within the roof-top power plants.

Share of renewables within electricity consumption

- As is: 0%
- Roof-top solar dev. only for on-site consumption: ~30%
- Roof-top solar dev. with virtual corporate grid\(^1\): 80\%\(-100\%\)

\(^1\): planned values based on simulations, and development is currently in progress.
Pathway towards decarbonization

Expansion of renewables is expected to be the most influential factor for the decarbonization, together with electrification of fossil energy sources.

Breakdown of GHG reduction factor for achieving Net Zero

- **Renewables and Electrification**: 45%
- **Energy Efficiency**: 25%
- **Hydrogen**: 14%
- **CO2 Removals**: 10%
- **CO2 capture and storage**: 6%

34 ton-CO2 emission in 2022

Source: IEA of OECD
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