COOPORATE HISTORY

In Aomori, we started a nursing care business such as Nursing home for elderly. With the advent of an aging society, we are steadily expanding our business in Aomori Prefecture. (AURA Co., Ltd)

A big earthquake occurred mainly in Tohoku region on March 11, 2011. Although the damage caused by the tsunami escaped at our nursing home, we have experiences that the building was damaged and the residents were put in danger of life due to blackouts.

On the occasion of the earthquake disaster, from the perspective of resilience against disasters and business continuity, we started a renewable energy power generation business to secure our own power supply and heat source. After that, we promoted a business model that combines renewable energy generation business with agriculture and fishery. That is because we have our business base in local cities.

Today, not only the renewable energy generation business (photovoltaic power generation, wind power generation, biogas power generation, biomass power generation), nursing care business, but also garlic production business utilizing biogas digestive liquid, sea cucumber cultivation business utilizing wind power generation. We are making efforts to expand complex related business while making full use of the regional characteristics of the site location.

2008 2019

Business Summary

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We promote...

“New Resources recycle business from Aomori”

We aim to realize recycling business with 100% renewable energy power supply. We will strive to realize a harmonious society of "low carbon", "Resource recycle" and "harmony with nature”

Since Renewable energy power generation is an independent power supply, utilizing the power/heat source for agriculture and fishery, it enable to make resilience system for local industries against disasters.

“From Aomori to Nation wide...to the world”

We will develop “New Resource recycling business” business to Asian country from Aomori'.

Resource recycling business utilizing renewable energy, We will expand the model to Southeast Asia.
We operate 20 nursing homes and 15 facilities in Aomori Prefecture, and qualified personnel include 19 nursing care specialists, 46 nurses, 3 physical therapists, 1 occupational therapist, and 126 care workers, 241 nursing helpers. We provide a comprehensive residential-type nursing home for the elderly and nursing care services that take into consideration the aging society of Aomori Prefecture.

LIST OF FACILITIES

Aomori City, Aomori
- Visiting care
- Aura Welfare Equipment
- Home care support center Aura
- Visiting nursing station Aura
- Day Service Center Aura
- Senior garden
- Senior Garden Apple Village
- Senior Garden Sakuragawa
- Residential pay nursing home aura
- Residential pay nursing home aura So yokaze
- Residential pay nursing home Aura Kagayaki
- Senior Garden Hamadate
- Residential pay nursing home Aurahamadate
- Senior Garden Yaeda
- Senior garden Minatocho

Mutsu City, Aomori
- Asunaro Helper Station
- Home care support center Asunaro
- Home care support center Namiko
- Senior Garden Matsukaze Forest A Building
- Senior Garden Matsukaze Forest Building B
- Senior Garden Matsukaze Forest C Building
- Day service Namiko
- Residential type nursing home Asunaro

Hachinohe City, Aomori
- Helper Station Aura Hachinohe
- Home care support center Aura Hachinohe
- Senior Garden Naganayo
- Senior garden family

Hirosaki City, Aomori
- Minori Helper Station
- Home care support center Minori
- Senior Garden Minori no Sato
- Senior Garden Ohara Minori no Sato
- Day Service Center Minori

Sendai City, Miyagi
- Pure Life Kyohara

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Cultivating garlic and producing black garlic in the local Aomori, utilizing residues from biogas power generation as liquid fertilizer.

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Agricultural Production Company AURA SMART Agri</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Office</td>
<td>Takashige Bld 2F 2-1-3 Dainitonyamachi Aomori City</td>
</tr>
<tr>
<td>Business</td>
<td>Garlic, Mellowed Black Garlic Manufacture</td>
</tr>
</tbody>
</table>

We are producing sweet and delicious black garlic by aging for 30 days by our own developed warefare equipped with special stone that gives infrared rays.

Business Summary

Sea cucumbers have been loved by Japanese since ancient times, and frequently eaten in Aomori Prefecture. In recent years its ingredients have been drawing attention, as studies have shown that it kills cancer cells. We will increase local produce of sea cucumber and aim to supply to the world.

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Blue Ocean Trade Co., Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Office</td>
<td>2-10-13 Minatomachi Aomori City</td>
</tr>
<tr>
<td>Business</td>
<td>Dried Sea Cucumber, Sea Cucumber Supplement Sales</td>
</tr>
</tbody>
</table>

(c) 2019 AURA-Green Energy Co., LTD.
## Business Summary

### Directors

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Position/Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Representative</td>
<td>Yukio Kawagoe</td>
<td>Agricultural production corporation Aura Smart Agri</td>
</tr>
<tr>
<td>Director</td>
<td>Hiroshi Kawamura</td>
<td>Ex-General Manager of General Affairs Department, Aura Co., Ltd.</td>
</tr>
<tr>
<td>Part time Director</td>
<td>Yasufumi Furuya</td>
<td>Doctor of Engineering, Professor, Tohoku University, Emeritus Professor, Hirosaki University, Visiting Professor, Advanced Science Research Center, Yokohama National University</td>
</tr>
<tr>
<td>Audior</td>
<td>Kazumasa Odagiri</td>
<td>Ex-Micronics Japan Co., Ltd. Aomori Sales office manager</td>
</tr>
<tr>
<td>Part time Auditor</td>
<td>Shinich Ikubuki</td>
<td>Ex-Aomori Prefecture Planning Policy Department Deputy Director, Ex-Mutsu Bay Ferry Managing Director, Akita kenjinkai chairman, adviser of international exchange group</td>
</tr>
<tr>
<td>Part time Auditor</td>
<td>Shuichi Yoshimura</td>
<td>Co-representative of Picotec Co., Ltd., Representative Director of Sakura Research Institute, Ltd.</td>
</tr>
</tbody>
</table>

## Group Company

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Head Office</th>
<th>Representative</th>
<th>Established in</th>
<th>Capital</th>
<th>Business</th>
<th>Major bank</th>
<th>Audit corporation</th>
<th>Association, Affiliated organization</th>
<th>Group company</th>
</tr>
</thead>
<tbody>
<tr>
<td>AURA Green Energy Co., Ltd</td>
<td>Takashige Bld 2F 2-1-3 Dainitonyacho, Aomori City</td>
<td>Yukio Kawagoe</td>
<td>Oct. 2015</td>
<td>45,000,000 JPY</td>
<td>Renewable energy business</td>
<td>Michinoku Bank, Aomori Bank</td>
<td>Audit corporation Avantier</td>
<td>General Incorporated Association Resilience Japan Promotion Council <a href="http://www.resilience-jp.biz/">http://www.resilience-jp.biz/</a></td>
<td>agricultural production corporation Aura Smart Agri Blue Ocean Japan Co., Ltd. PT.AURA ENERGY PREMANUS</td>
</tr>
</tbody>
</table>

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NEW RESOURCES RECYCLE BUSINESS FROM AOMORI

Business Development in Local Resilience system for local industry
Utilization of surplus power source, independent power source, heat source, waste liquid etc in renewable energy generation

Development of regional industry by Utilization of surplus power, Heat, etc.

Wind Power Generation
compact wind power generation project in Aomori, Hokkaido district (acquired ID:500 around locations)

Geothermal power generation
Utilization of surplus power source, independent power source

Biogas Power Generating
Utilization of surplus power source, heat source, independent power source

Biomass Power Getting
Utilization of independent power source, waste liquid, etc.

Utilization of surplus power source, heat source

Agriculture/Fishly

By surplus power supply Server business
Black garlic production "Severe cold in Aomori" make it delicious

Sea cucumber cultivation business
Container type begetable factory

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OVERSEAS BUSINESS

Expansion to Asian Market
Export of “Local production for local consumption type power system” and “Resource recycling business”

Approach to Southeast Asia
- Contribute to mitigating global warming by promoting technologies, products, systems and services to reduce CO2.
- We also contributes to the sustainable development of developing countries.
- Help Japan to achieve greenhouse gas emission reduction reduction targets.
- Contribute to the achievement of the objectives stipulated by the UN Framework Convention on Framework Convention.

Approach to 12MW biomass power generation business by JV with local companies
Adopted JCM (Joint Crediting Mechanism) in 2018

Aiming for the creation of a sustainable community by utilizing the JCM “Joint Crediting Mechanism” to tackle global warming and to export the Aomori local production for local consumption model using renewable energy.

Utilization of power plant waste and heat sources for agriculture, etc.

Collaboration with government companies

Approach to 2MW Hydrow power generation business by JV with local companies
Adopted JCM (Joint Crediting Mechanism) in 2019

Selling electricity to power companies

Utilization of surplus power Used as an emergency power source

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OVERSEAS BUSINESS DEVELOPMENT

Hybrid power generation business by solar and biomass power generation in cooperation with Cambodia local companies (Major Rice Mill Company)

Cambodia has developed to maintain a GDP growth rate of 7% over the last 10 years, since it is a resource-poor country, power shortages are still an issue. On the other hand, the main industry is rice production, and there are 20,000-30,000 rice mills in Cambodia.

Aimed to build a system model in cooperation with the major rice mill company AKR, 1MW solar power generation and 500kW biomass power generation will be installed in the rice mill. The heat generated from the Biomass power plant will be used in the noodle factory to supply optimal energy to the region. (planned to be completed in 2020)

Hybrid power generation business by solar and biomass power generation in cooperation with Cambodia local companies (Major Rice Mill Company)

Other power generation projects in collaboration with local companies are under consideration.

Hydroelectric generation project

- Indonesia
  - 13MW MULUKU
  - 8MW JAWA
  - 2MW SUMATRA
  - 2MW BALI

Biomass power generation project

- Power generation business from waste liquid from food factories (Indonesia Sumatra)
- Palm Factory Waste Liquid (POME) Power Generation Business (Indonesia Sumatra)

Garbage power generation project

- Waste power generation by subcritical water treatment technology (hydrolysis treatment)

Contribute to solving the power shortage problems in Indonesia, Philippines, Cambodia.

Business Summary

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THE Biomass Powerplant

PT Primanusa Energi Lestari Tanjung Seumantoh, Aceh Project
A Cooperation between International Consortium, PT Gistec Prima Energindo of Indonesia and AURA Green Energy of Japan

PT Gistec Prima Energindo and AURA Green Energy of Japan started International Cooperation Consortium in developing EFB Biomass Power Plant to aim for global emission reduction and improving Indonesian grid stability in Aceh Tamiang, Indonesia

International Consortium focus on Building and Operating EFB Power Plant through PT Primanusa Energi Lestari in Aceh Tamiang to focus on EFB Power Generation
PROJECT OUTLINE

PT PRIMANUSA ENERGI LESTARI

The location: Aceh Tamiang province in Indonesia
The fuel for the power plant: EFB, Palm oil mills residue that is not utilized
The capacity of the power plant is 9.8MW electric power that sold to PLN.
The implementation structure has been comprised by international consoursium.
Shareholders include state own company PTPN 1

info@gistec-prima.com
www.a-ge.jp
JCM PARTICIPATION

This Particular Project has big Environment Savings, and already in the development for 5 years, but the performance of the project not very exciting

Now with Support from Japanese Credit Mechanism, the project was able to start and scheduled for operation in 2021

JCM concept of assisting projects of larger carbon savings is really a breakthrough in the industry.

This project has received Subsidy total of JPY899,999,000 through sales of CO2 of 31,322 ton/year or 626,440 tCO2 for 20 years

Reason for the subsidy amount is that the project
1. Replaces Diesel Generators in the area to generate electricity
2. Dispose of properly Empty fruit Bunches that are hazardous to the environment due to high methane content if left untreated
3. benefits social people through creation of Jobs and palm waste industry
4. Use of Japanese Technology in Equipment and Standard

"WE MET AURA GREEN ENERGY THROUGH CTBN BUSINESS MATCHING 3 YEARS AGO, AND ENCOURAGE FOR OTHER PROJECTS TO APPROACH THEM IN THIS FORUM"

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PROJECT IMPACT

EMISSIONS SAVING
31,322 tCO2/ year or equivalent to 17,401 passenger car commuting 1 year or 20,000 km

HOUSEHOLD SUPPLIED
9800 kW is good for 4,454 medium house or 10,888 small house

JOBS CREATED
more than 174,000 tpy of EFB needed will create 6,400 new jobs
TECHNOLOGY USED

Tanjung Seumantoh Biomass Power Plant utilized proven, combustion Power Plant

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TECHNICAL CHALLENGE & SOLUTION

HIGH MOISTURE CONTENT

65% Moisture content

- Low Energy about 1,800 Kcal at 65% Moisture Content
- Need to utilize hammer mill in pressing and shredding for lower moisture content

CLINKER FORMING IN LOW TEMPERATURE

Low ash melting point

- Low Temperature Ash Melting Point
- Clinker Forming at very low temperature (<600 deg)
- Combustion temperature must be lower and air mixture optimized to maintain efficiency

STICKY TAR FORMING

High Potassium Tar Forming

- Low ash melting point forms Tar that might be hazardous to power plant equipment can cause downtime
- Need high degree of automation to control the combustion chamber to preserve temperature
- Automated cleaning in power plant to minimize downtime

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THANK YOU

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