bluesign®
SYSTEM PARTNER

GRAND TEXTILE CO., LTD

We don't just make, We create

BACKGROUND

Grand Textile was established in 1987 as a Woven based company and begin Knits business in 1991 as Great Chemical. With more than 30 years of industry experience, the company have obtained several certifications including Adidas certified Tier 2 facility, Bluesign, GRS and numbers of Patented Technology which received Industry Excellence Award. We are one of the few manufacturer from Taiwan to produce both Woven and Knits.

ABOUT US

Head Quarter: Taipei, Taiwan

Liaison Office: Seoul, Korea

Factory location: Taiwan & Vietnam

Product: Woven and Knits Fabrics for

Sportswear, Outdoor, Baselayer

Turnover: U.S 50 million

Website: www.grandtextile.com

Company promotional video:
http://www.grandtextile.com.tw/media.php






OUR VISION

Our vision is to create a sustainable development with new technologies and become your first choice for textile materials. We are inspired to connect our innovation with your ideas.

OUR RESPONSIBILITY

We take our responsibility very seriously.

- ✓ Our dyestuff and chemical are certified and approved by Bluesign.
- ✓ Our waste are collected via Government-licensed partners.
- ✓ We aim to increase our wastewater capacity to 100% recycle and reusable wastewater.
- ✓ We aim to replace all polyester fibers to post-consumer recycled polyester fibers.
- ✓ We aim to set up green energy such as solar panel and steam turbine generators to reduce CO2.

ACHIEVEMENTS

Adidas Level 3+(Taiwan) 2+(Vietnam) Laboratory Certification

Bluesign Certification

GRS Certification

Adidas Group Certified Dyehouse

Decathlon Certified Dyehouse

BSI Statement for CO2 Footprints

Stone Cold Technology obtained Industry Outstanding award

Coffee Charcoal Patent obtained

Stone Cold Patent obtained

Color Max Patent obtained

PRODUCTION LINE

- Knitting
- Brushing
- Weaving
- Lamination and Bonding
- Dyeing
- Digital Print

KNITTING

Capacity @ 1,000,000 Yards per month

Single Jersey	– 34″ 24G,28G,32G
Double Jersey	– 34″ 22G,24G,26G,28G
	– 32″ 42G
	– 30″ 28G,32G
Terry	– 30″ 26G
Thick Needle Terry	– 30″ 8G
Double Jersey Jacquard 2WT	– 30″ 28G

WEAVING

Weaving preparation	– Capacity @ 600~800 Beams per month
Auto Drawing-in Machine	– Capacity @ 12-16 Beams per day
Water Jet Loom Weaver	– Flat, Twill, Dobby & Rip Stop
	– Capacity @ 2,000,000 Yards per month

DYEING

Extreme-rapid, High-temperature & High-pressure Jet Dyer

CAPACITY @3 million yards per month (Vietnam)

@3 million yards per month (Taiwan).

Continuous Tensionless Shrinking machine

Dyer low bath ratio:

- Traditional: 1 : 10
- G&G: 1 : 6~7

FINISHING

Heat Setting Machines x 4 sets

Continuous Desizing Washing machine

BRUSHING, COMBING, SHEARING & ANTI-PILLING, PEACHING

Brushing machine

Combing & Shearing machine

Anti-pilling machine

Peaching machine

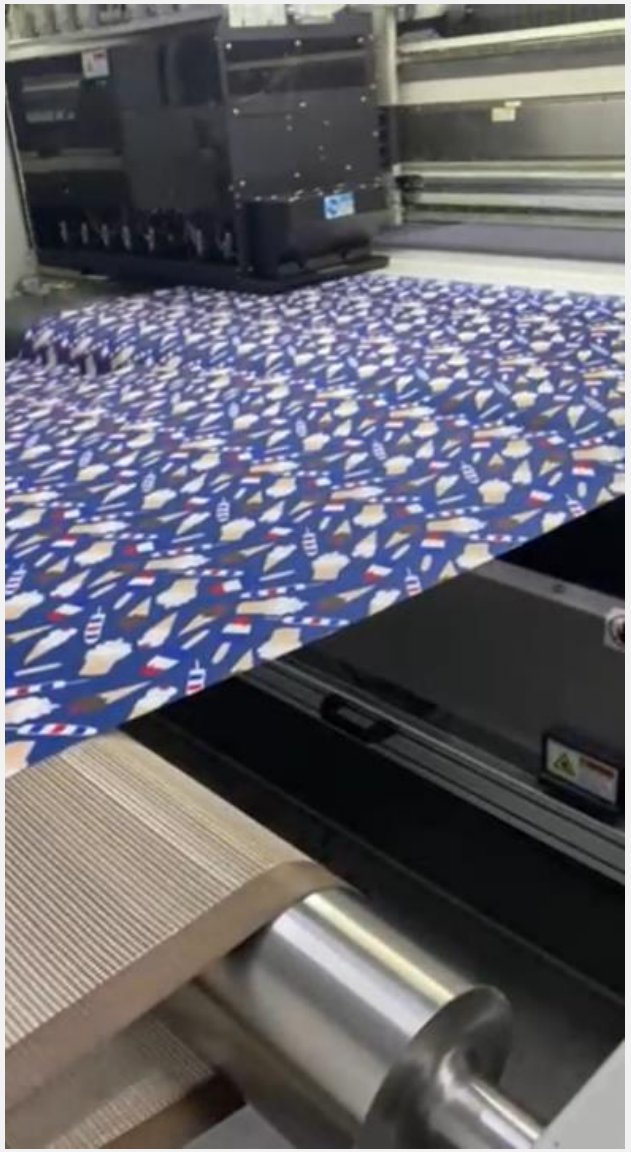
BONDING & LAMINATION

Bonding & Lamination machine

CIRE

Cire machine

DIGITAL PRINT



Print on both Polyester & Nylon

ECO Friendly

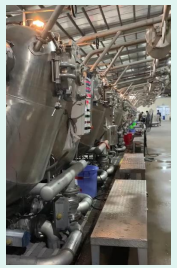
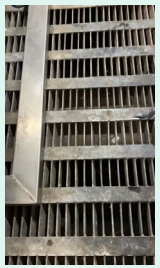
- Directly spray digital print, no water usage.
- No MOQ: no waste fabric usage due to MOQ.

WASTE WATER

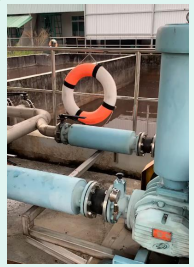
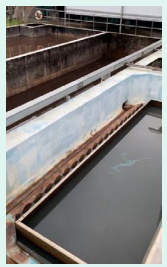
Biochemical and Physical Wastewater Treatment – Capacity @ 2,200 Tons permit

Physical & Chemical treatment, not expensive RO treatment.

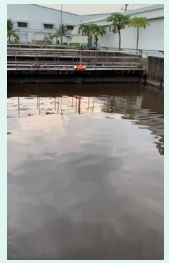
WASTE WATER PROCESS

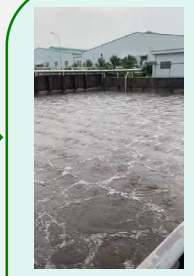
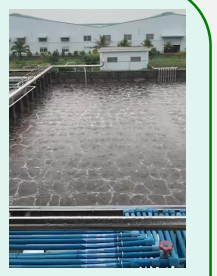
Two way water system 管線分流
*heavy chemical 重化學
*light chemical 輕化學

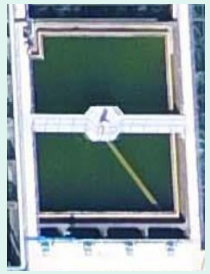

Heavy chemical treatment
重化學處理



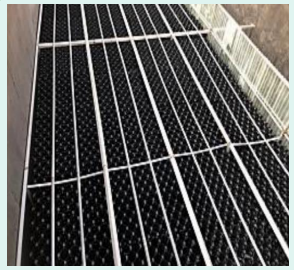

Sand precipitate pool
沉砂池

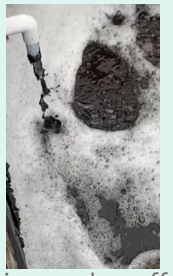
Evenly pool
調勻池



Chemical pool 1
化學池 1



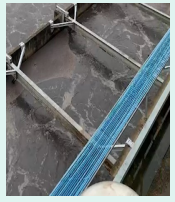

Bio pool x 18 生物池 x 18



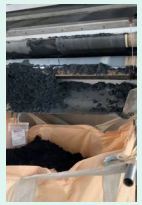

Bio pool+coffee charcoal x2
生物池+咖啡碳液 x 2

Final bio-precipitate pool
生物終沉池


Chemical pool 2
化學池 2

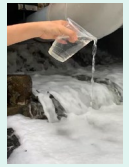


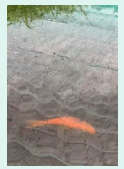
Sludge pool
汙泥池



Desliming machine
脫泥機

Filter barrel 1
過濾桶 1



Artificial wetland x 15 pool
人工溼地 x 15池

Filter barrel 2
過濾桶 2

Observe pool
觀察池

Ion exchange resin
離子交換樹酯

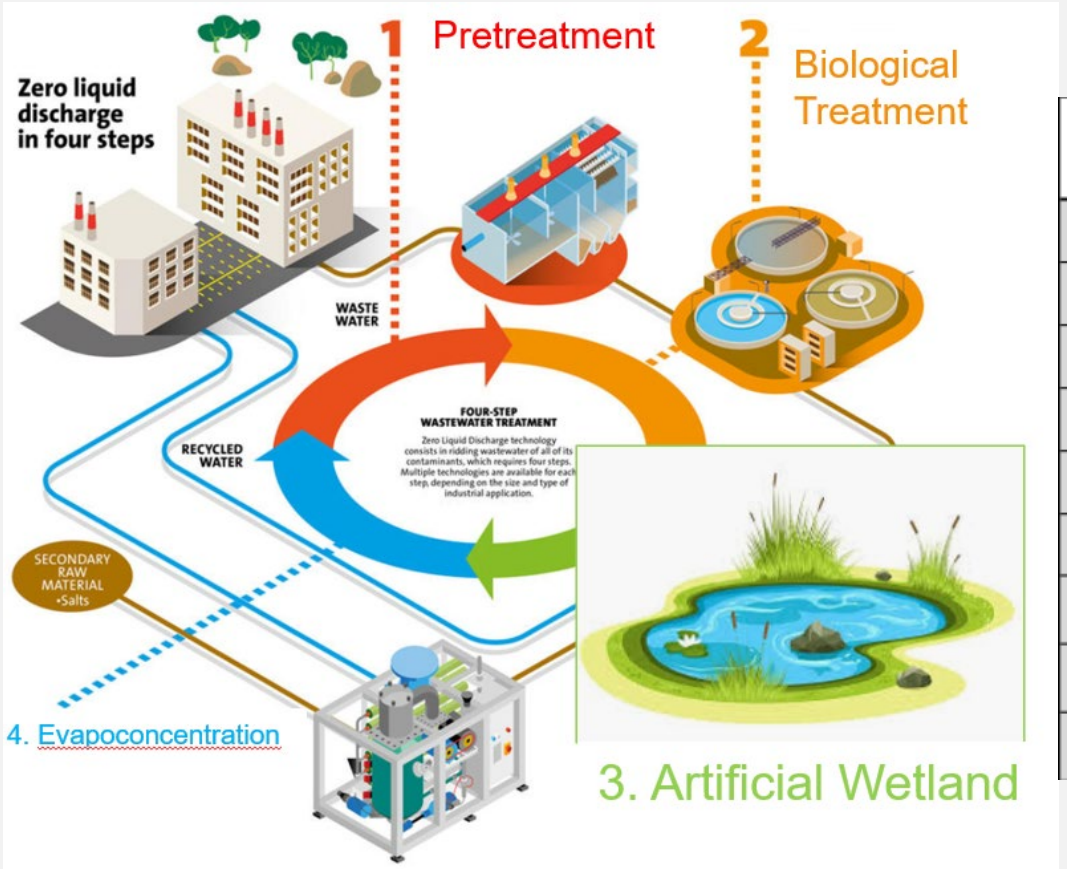
Recycle pool
回收池

ECO SYSTEM

- We have an eco system built at the very last stage of the wastewater system, this facility has a capacity of 5,000 Tons.
- Rain water is recycled through gutters and reservoir then pumped into the system.
- Treated water collected from the system is reused in our production.
- A second system with the same water capacity reserved is built underneath incase of emergency.
- We are the only Textile factory in Vietnam that is capable to use industrial water for dyeing. Whereas other factory uses tap water which have a cost difference of 1:3.

94% waste water recycle rate

- 3rd Party institute TUV conducts quarterly audit to confirm our waste water recycle rate
- In 2020, we have recycled up to 302,000 cubic meter of water which is equivalent to 120 Olympic size pool.



TÜVRheinland®
Precisely Right.

1 Supplier General Information

Facility Name	Grand and Great textile company limited		
Facility Address	Lot B_3F_CN, Bau Bang industrial Park, Lai Uyen town, Bau Bang District, Binh Duong Province, Viet Nam		
Main Product	WEAVING CLOTH, KNITTING CLOTH, PRINTING CLOTH, LAMINATION CLOTH	**Facility Establish Year**	2016
Wastewater Discharge Types (continuous or discontinuous)	Continuous	**Water Discharge Location** (River, lake, sea, ect)	River
ETP Design flowrate (m^3/day)	3000m3/day	**ETP Construction Year**	2019
ETP Actual flowrate (m^3/day)	3000 m3/day	**Discharge Water Amount** (m^3/Years)	2936
Fresh Water Amount (m^3/Years)	52061	**Recirculating Water Amount** (m^3/Years)	155496
Water System Discharging Rate	5.6% ← Government requirement		
Water System Recirculating Rate	74.9%		

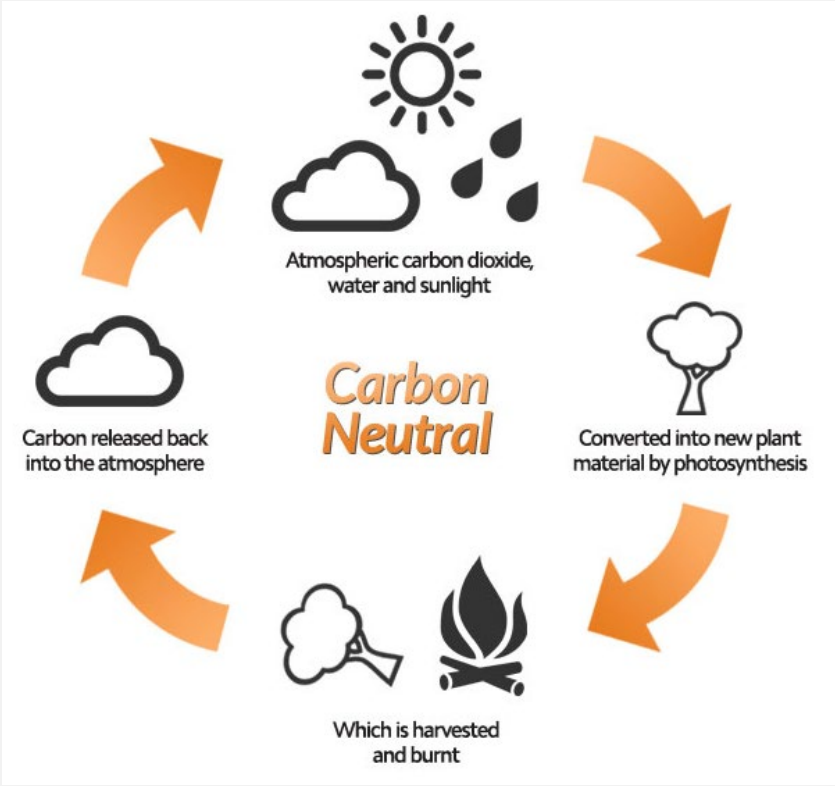
94% waste water recycle rate (including evaporation)

Energy Source: Biomass

Grand Textile Vietnam uses 100% biomass as energy source, Vietnam is a large agriculture country and has large supply of biomass fuel.

Our biomass is not just ordinary wood waste, we manufacture the biomass into compact and high burning efficiency.

We monitor closely on the waste gas quality before we release into the atmosphere.



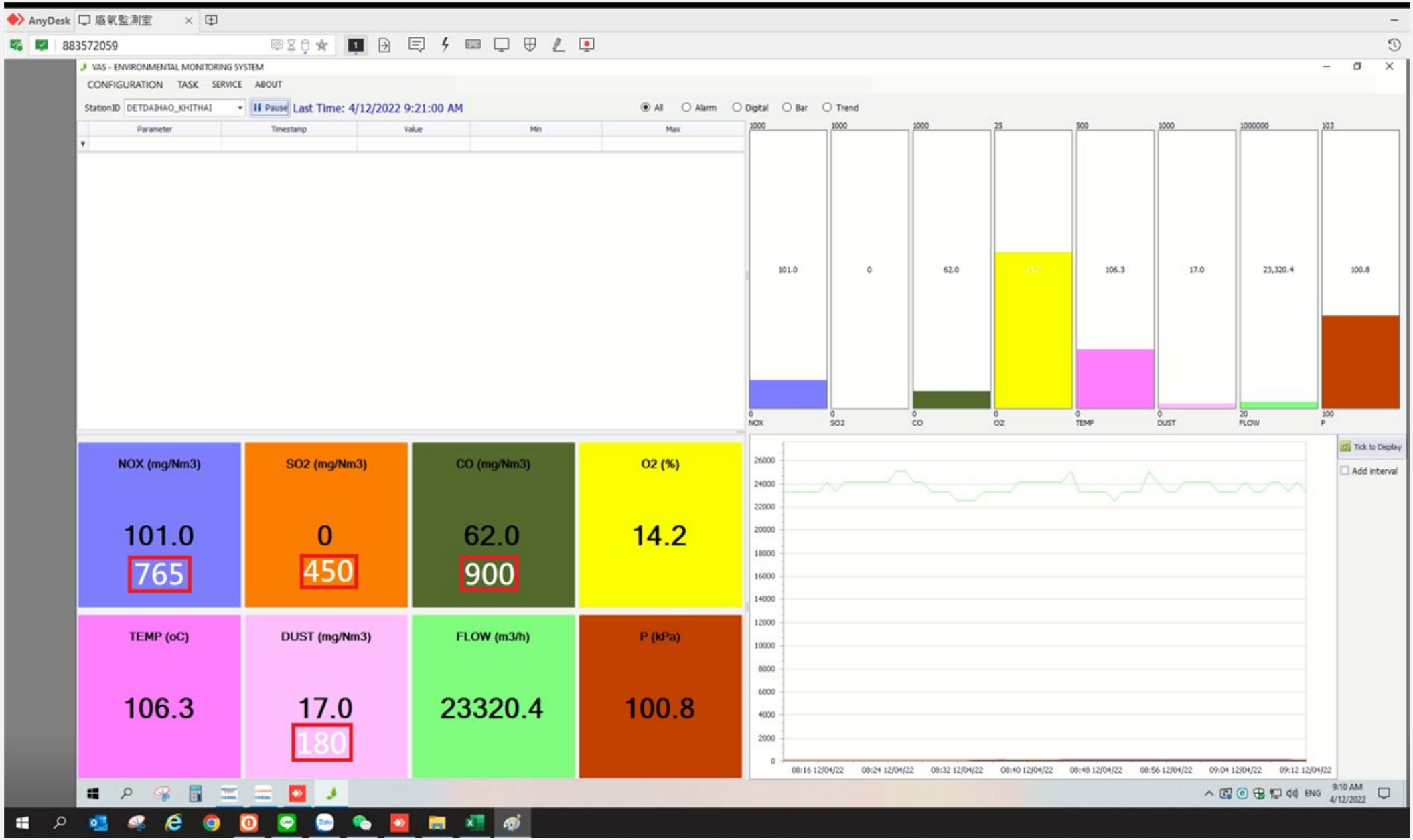

Biomass boiler


Biomass storage


Biomass is no wood waste


Air Quality Monitor room

Air Quality Monitor system – On Time

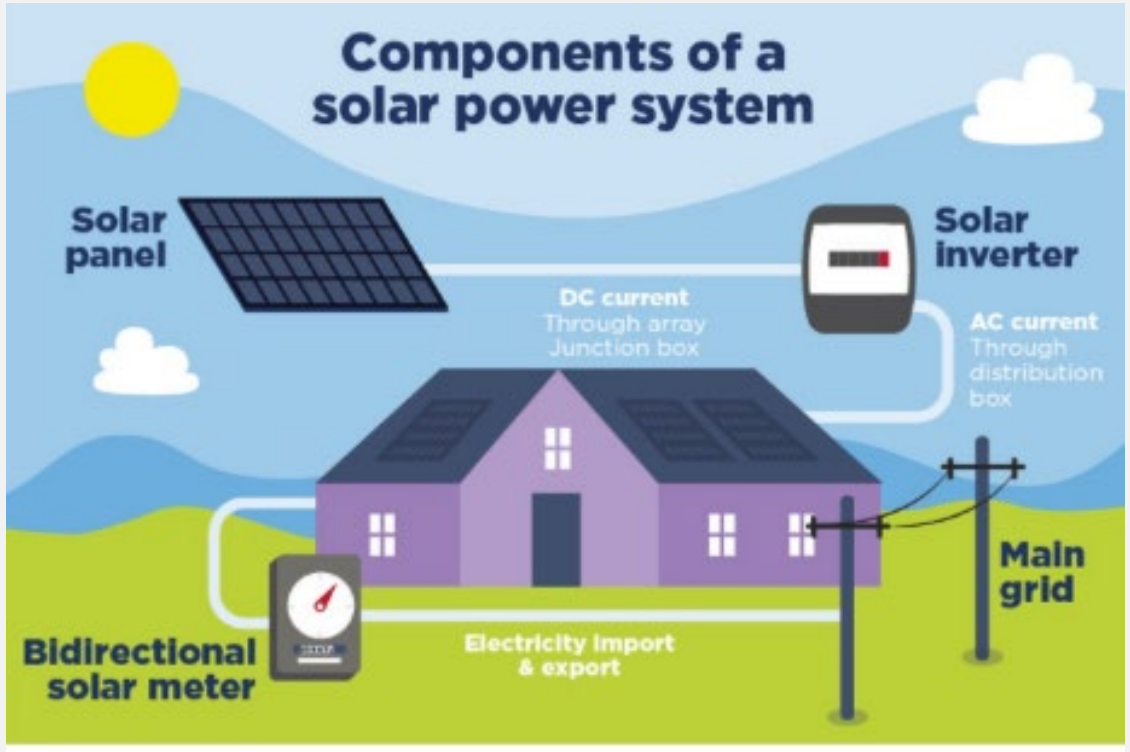


Energy Source: Solar Power

Grand Textile Vietnam plans to use solar power as energy source, there is enough sunshine time at south Vietnam.

We will set the solar power panels at factory roof, estimate the panels will be completed within 2022.

The solar power will cover around 40%~50% of our factory electric power nowadays.



Solar Power Plan

BLUEPRINT

Taiwan Capacity @ 3 Million yards per month

Vietnam Capacity @ 8 Million yards per month

Total employees: Approx. 500

Specialize:

Performance & Functional Fabrics

Dyeing and Treatment on Fabrics

2, 2.5 & 3 Layer Softshell Lamination

Digital print

Brush & Peach finish

Grand and Great Textile Vietnam

PATENT OBTAIN

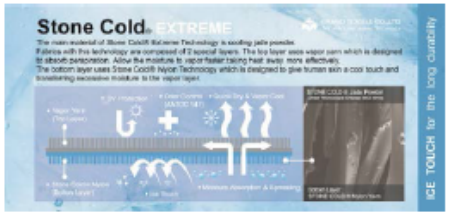
Recycle the coffee waste from coffee shop or beverage company, then use exclusive patented technology to convert coffee waste to activated carbon, finalize the powder and apply in textile production such as dyeing exhaust or yarn extrude process.

Functionality:

- Thermal Effusivity – fabric thermal ability changes when surrounding environment need it. ASTM D7984-16
- Thermal Enhancement – Ability to keep warm. ISO 11092, ASTM D7024, IH Heat Cycle Test
- Anti Microbial – Reduce microbial activity. Odor Control Claim. AATCC 147
- Wicking – Natural Wicking Characteristic. Test protocol relates to customer protocol.
- Anti UV – Improve UV rating. UV improvement value relates to fabric construction.

Recycle the jade scraps from sculpture or mining field, then use exclusive patented technology to convert jade mineral to material compound, add the powder and apply in textile production such as dyeing exhaust or yarn extrude process.

The 2nd generation of Stone Cold; Stone Cold EX takes the cooling to the next level, considering all factors of cooling, including next to skin comfort. Not only targeting cooling and comfort, we also target the vapor speed in our 2nd generation cooling technology, making average MMT grade 3-4.



Functionality:

- MMT – Moisture Management Transferability, enhance the ability to move moisture to surface for evaporation. AATCC 195.
- Cooling – Contact Cooling Performance, enhance the ability to cool down skin temperature. Stone Cold EX Q-max Testing above 0.135. FTTS-FA-019
- Anti Microbial – Reduce microbial activity. Odor Control Claim. AATCC 147
- Wicking – Natural Wicking Characteristic. Test protocol relates to customer protocol.
- Anti UV – Improve UV rating. UV improvement value relates to fabric construction.

OUR CUSTOMERS

OUR BUSINESS PARTNERS

LI & FUNG

Environmentally Friendly TOPGREEN™ Recycled Yarn

財團法人
紡織產業綜合研究所
Taiwan Textile Research Institute

PARLEY

TENCEL®

drirelease® with FRESHGUARD®

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