

# “Innovative Eco Products for Green Building and Landscape ”



Technology and Sustainable Landscape Design  
3 March 2017 ■ Furama Hotel, Singapore

3/2/2017

**Patrick CHAN**  
Chief Executive Officer, GAC Ventures  
Managing Director, VisionEdge Technologies





# Speaker

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- Managing Director, VisionEdge Technology and GAC Ventures
- Co-Founder, Green Trade Hub and Cleantech Marketplace Forum
- Practising Management Consultant (PMC) and PMC (Bilingual Chinese)
- ACTA Certified Trainer by Singapore Workforce Development Agency (WDA)
- Certified Green Productivity Consultant and Trainer by Asian Productivity Organisation (APO)
- Senior Advisor, Green Business Development, Green Business Forum, Asian Development Bank (ADB)
- > 20 years experience with close to 10 years in cleantech, energy and environment sectors.
- Past projects: ADB Low Carbon Technology Marketplace, ADB Dynagreen Corporate Governance & Sustainability Capacity Building, GGGI Waste-to-Energy Pre-feasibility Study for UB for GoM, Singapore Sustainability Alliance, Singapore Sustainability Awards, Singapore Sustainability Directory, Asia Pacific Sustainability Leadership Forum





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“Your one stop portal into a world of green products and services”

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# Green Trade Hub



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**News & Views**

- SICCI eyes new, emerging markets
- SICCI acts as a bridge in building relations with India
- SICCI Chairman retains post after hard fight.

**Events Highlights**

- Business Matching and Networking Session with Cashew Export Promotion Council (CEPC) of India
- Essential Negotiation Skills

**Featured Member**

**Aakash International Pte Ltd**  
Aakash International has been exporting consumer electronics out of Singapore for over 20 years. We carry major brand names like APPLE, SONY, PANASONIC, SHAI, CANON, LG and SAMSUNG.





# Value to Members

## Quick Access to Global Markets

- Wider regional business exposure
- Increased regional sales opportunities
- Access to regional investors and investment opportunities
- Understand and Use FTA Competitively



## Facilitate International Collaboration

- More business matching opportunities
- Access to competitive and FTA compliant suppliers
- Opportunity to band together to capture international orders



## Simple, Secure and Low Cost

- Minimal IT Outlay
- Leverage on GAC's expert resources
- Ease of Use
- Training support provided
- Low Cost based on utilization

arl



# First As a Member, You Get a BASIC Account

Each member gets an account to immediately be connected

**Trade Tools**

- My Contents
- My Messages
- My Contacts
- My Products
- My Buying Leads
- My Bookmarks
- My Block List

**Procurement**

- Quotation
- Purchase Order

**Account Settings**

- My Company Profile
- My Profile
- Change Password

### My Account

Quick Access: [My Profile](#) [Company Profile](#) [Sell Products](#) [Buy Products](#)

- Upload Product
- Browse Buy Leads
- Search Partners
- Document Library
- Upload Content

### My Trade Activities

You have 1 unread messages

<b>Seller</b>	Product(s) Added	14	<a href="#">Add New</a>
	Purchase Order(s) Received	2	
<b>Buyer</b>	Buying Lead(s) Added	1	<a href="#">Add New</a>
	Quotation(s) Received	0	

### User Guide

- [Edit Your Profile](#)
- [How to Sell](#)
- [How to Buy](#)

### My Account Status

- Member ID: wesley.1
- Member Type: Admin Eabex Pack



# An Account that will allow YOU to connect with members of Chambers in the Region

## EABEX COMMUNITY

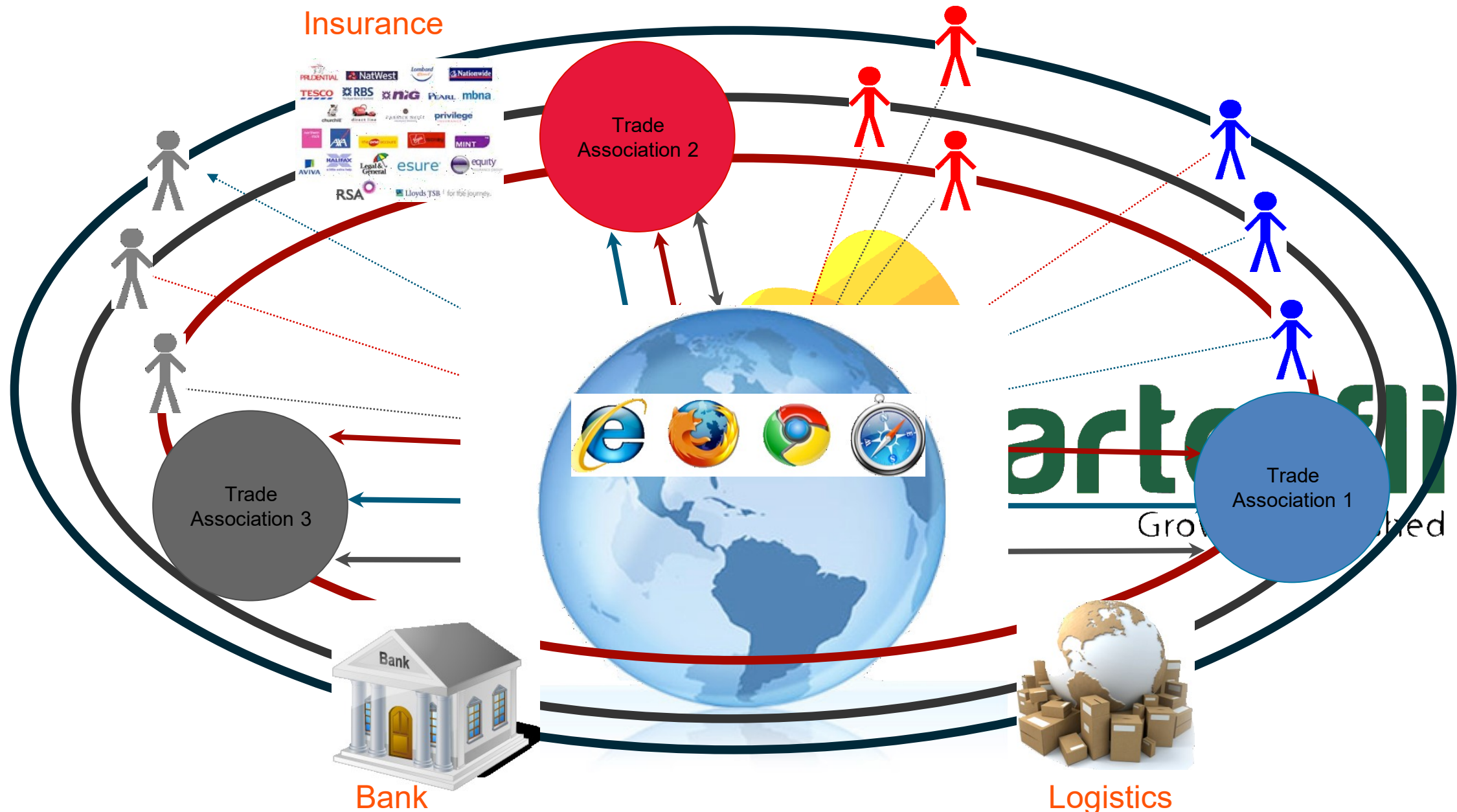


## Other GTH International Partners





# Direct Access to All Communities From All Sites



**Direct Access to Verifiable Community  
with Support and Better Visibility**



# Valued Membership

Valued members get access to Various Key Services (optional):

E-Commerce Packages

Member /Event Registration

3rd Party Services

Tariff /FTA Database

Digital Direct Marketing

M-Commerce Support



**REGISTRATION FORM**  
FAX COMPLETED FORM TO: 6720 2222

Enjoy a group discount of 10% for 5 or more delegates and a group discount of 15% for 10 delegates registered at the same time from the same organisation and of the same billing cycle.

1 <sup>st</sup> DELEGATE	2 <sup>nd</sup> DELEGATE
Solution: (Dr/Mr/Mrs/Ms)	Solution: (Dr/Mr/Mrs/Ms)
Name:	Name:
Email:	Email:
Designation:	Designation:
Department:	Department:
Mobile:	Mobile:
3 <sup>rd</sup> DELEGATE	4 <sup>th</sup> DELEGATE
Solution: (Dr/Mr/Mrs/Ms)	Solution: (Dr/Mr/Mrs/Ms)
Name:	Name:
Email:	Email:
Designation:	Designation:
Department:	Department:



Banking



Insurance



Logistics

Supplier Evaluation Plus Report



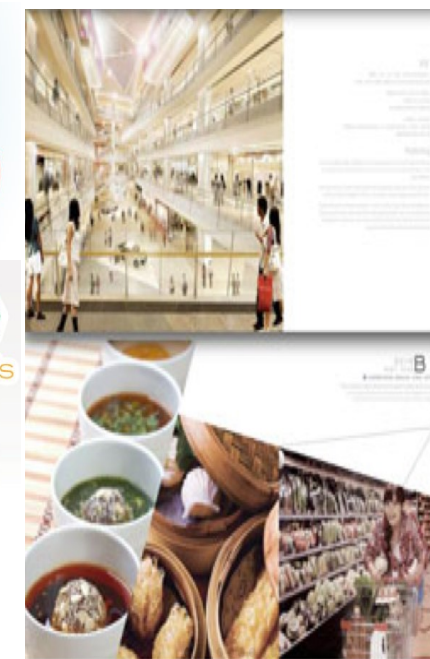
Credit Info

Records for 10 years

Export Country	Import Country	FTA	MFN (%)	2010
India	Cambodia	AIFTA	N/A	15%

Alternative Source

Export Country	Import Country	FTA	MFN (%)	2010
Australia	Cambodia	AANZFTA	15%	15%
New Zealand	Cambodia	AANZFTA	15%	15%
Indonesia	Cambodia	AANZFTA	15%	15%
Laos	Cambodia	AANZFTA	15%	15%
Malaysia	Cambodia	AANZFTA	15%	15%
Burma	Cambodia	AANZFTA	15%	15%





# Some of our notable clients/distributors



GAC Ventures  
新加坡亚世连企业

## Food Safety Solutions from Farm to Fork

### APPLICATIONS

### FEATURES

### PRODUCTS

- 10-Second Purifier – Ozone Filtration System**
  - Kill over 99% of bacteria &
  - Remove over 75% of pesticides
  - Remove odours & keep food fresh
  - Install in < 10 sec & used in many homes & restaurants
- Micro-Bubble Washing Stations**
  - Less water usage & reduced labor costs
  - Less wasted food & quick food produce washing
  - Modular approach for large/small produce quantity
- Micro-Bubble Bathtub System (Cabozi Micro Bubble System)**
  - Create billions of Micro Bubbles, turning clear water milky white in 30 sec.
  - Help deep clean skin pores & improve skin tone
  - Create large amount of anions to ease nerve system and relax body
- Micro-Bubble Industrial Applications in Agriculture, Rural Areas & Industrial Equipment**
  - Solar powered water purification system turning river water into drinkable water
  - Other applications in agriculture, fish & vegetable farming, industrial equipment washing, waste-water treatment, etc.



## Innovative Headwear Preventing Heat Stroke for Outdoor Workers & Activities

**Soak in water, squeeze and put it on!**

- 1 Soak it in water for 1 minute.
- 2 Squeeze it lightly.
- 3 Keep cool putting it on under the helmet.

**10°C improved cooling effect. Feel the difference.**

**The surface of the helmet can reach extremely high temperatures in summer, but you can keep cooling your head back like blue graph.**

Temperature on helmet surface (Red line) vs Temperature on the back of coolbit (Blue line).

The back of the head keeps cool for about 3 hours. Re-soak it in iced water and benefit from its cooling effects for 3 more hours.

**Top seller with 7000 pieces sold!!**

- Keeps your head cool
- Eliminates direct sunlight
- Cooling mechanism through effective head vaporization
- Targeted at outdoor workers, particularly construction, port, power maintenance, postal, etc

**Increases productivity, staff welfare**

- Cools the back of the head
- Designed to be comfortable while working or playing sports
- Eliminates direct sunlight
- Targeted at outdoor workers or sports like golf, baseball, hiking

More than 1/2 million units sold!

## Solar Brick

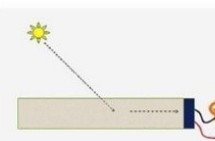
### FEATURE

### APPLICATIONS

### PRODUCTS

- Renewable Energy - Solar electricity generation, sustainable development growth, eco-friendly**
- Stylish Design - Looks like normal glass brick. Can be chosen as light transmission or not.**
- Innovation - Advanced light-guiding technology especially designed for vertical to ground installation of generating solar power.**

- Building wall, Greenhouse frame, Fence, Pillar
- Billboard, Lantern, Bus stop, Sound proof wall, Installation art
- Cell phone & Emergency power charge station



## Power Saving Reactance Filter

### FEATURE

### MODEL

### PRODUCTS

- Integrated to provide multi-functions and is installed in the input of power source**
- Filter out and prevent surging voltage / current, and make outputs of the three phases be balanced**
- Filter out non-effective harmonics of electricity; achieve reactance filtering**
- 3-phase voltage balancing; reduce power waste; recover the best quality and most usable voltage and current devices at the premises**

**Family type:** Single phase, 220 V/ 3KVA (for both 110V and 220V).

**Commercial type:** Single-phase or 3-phase voltage, 220 V or 380 V. Capacity: 10 KVA ~ 30 KVA.

**Factory type:** 50 Hz or 60 Hz, Customized. 3-phase voltage 220V or 380 V or 440 V. Capacity: 30KVA ~ 1000KVA.

**High-Voltage type:** 50 Hz or 60 Hz, Customized. 3-phase voltage 3300 V or 11.4 KV or 10 KV or 22.8 KV or 35 KV. Capacity: 300KVA ~ 20000 KVA. Worldwide voltages 3300 V or 11.4 KV or 10 KV or 22.8 KV or 35 KV are all applicable.



## Energy Saving Insulation Coating

### FEATURE

### PRINCIPLE

- Temperature reduction (energy saving)**
- NASA grade composite material process**
- Harmless to human body and environment**
- Strong against all kinds of weather conditions**
- Work as a protective shield for your house**
- Making your home a green building**



**Case Studies**

Chiayi: Refinery Institute-CPC Taiwan

Teoyuan: The honor through the clouds • GFC

Bangkok: Landscaped rental villa

## Bio-based/Bio-enzymatic cleaning products.

### FEATURE

### PRODUCTS

**FLOOR CARE**

- Finalize (Scrub & Recoat/High)
- Sealers
- Stippen
- Anti-Static Floor Finish
- Static Guard Floor Cleaner

**CARPET CARE**

- Extraction Cleaner
- Bornal and Traffic
- Moisture

**DISINFECTANTS**

- Food Service
- Cleaner & Odor Eliminator
- Neutral Cleaner
- Neutral High Concentrate
- Sanitizers/Disinfectant

**DISPENSERS**

- Variety of shapes & sizes from leading manufacturers such as Hydro Systems, Knight and HCN
- Single or Multiple Products
- High, Low or Combo Flow Rates
- Closed Cabinet/Lockable
- Washer
- Aud Cleaners/Dusters
- Food Plant Acid

**GENERAL PURPOSE AND SPECIALTY CLEANERS**

- General Purpose
- H2O2
- Spray & Wipe
- Heavy Duty Degreaser
- Waxing/Gloss
- Stainless Steel & Furniture Polish
- Grease Remover
- Disinfecting Liquid
- Liquid/Volatile Wash
- Traveller Cleaner

**WASHROOM CARE**

- Flouring Hand Soap
- Concentrate Toilet Soap
- Buy Hand Cleaner
- General Cleaners
- Cleaner
- Grease & Grease Remover
- Grease Remover & Disinfectant
- Drum Pump
- Fast Filling Industrial Stations
- Bink Dispensers
- Grease Trap Dispensers

**ODOR CONTROL**

- Enzymatic Odor Eliminator
- Bio-Enzymatic Odor Eliminator

**INDUSTRIAL COMMERCIAL**

- Citric Power Neutral Cleaner/Degreaser
- Citric Power Alkaline Cleaner
- Heavy Duty Citric Power Cleaner

**ISO CFIA**

# Solar Power Brick



GAC Ventures  
新加坡亚世连企业

- SPB builds a great balance between construction material and solar PV power.
- Feature:
  - [ Renewable Energy ] Solar electricity generation, sustainable development growth, eco-friendly.
  - [ Stylish Design, Customizable ] Looks like normal glass brick. Can be chosen as light transmission or not. Variety uses to old and new buildings.
  - [ Innovation ] Advanced light-guiding technology, especially designed for vertical to ground installation of generating solar power.
  - (Patents owned)
- **Application:**
  - Building wall, Greenhouse frame, Fence, Pillar
  - Billboard, Lantern, Bus stop, Sound proof wall, Installation art
  - Cell phone & Emergency power charge station





# Temperature Regulator Film



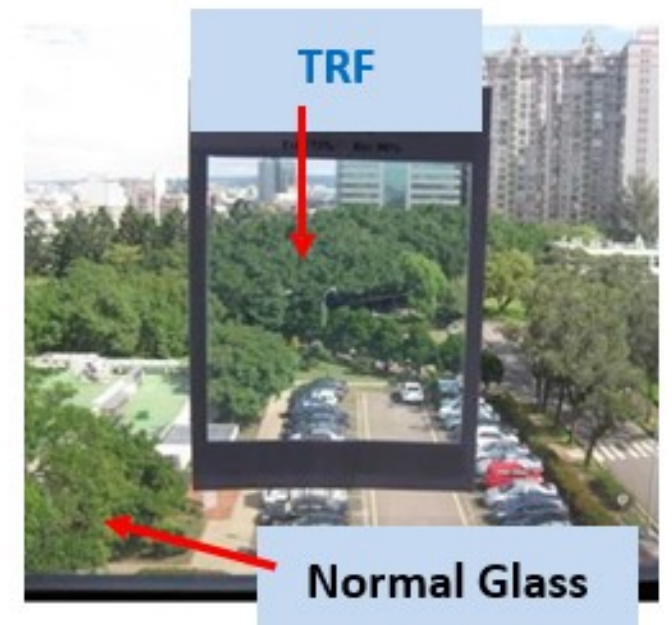
GAC Ventures  
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- Transparent thin film BIPV
- Features
  - [ Transparent ] 80% transparency rate.
  - [ Eco-friendly ] No harmful materials used in product. High safety rating
  - [ User-friendly ] Easy to be applied on all kinds of greenhouses. Very high C/P value.
  - [ No Harm to Photosynthesis ] 70% UV transparency rate. Almost no influence on photosynthesis
  - [ Energy saving ] Absorbing 90% of infrared rays to form a layer of heat to stabilize inside temperature under different sunlight which can save lots of energy from air conditioning.
- Application:
  - Multi kinds of greenhouses.
  - Glass curtain wall in high latitude area.



Glass Greenhouse with TRF  
**29.7 °C**

Glass Greenhouse  
**38.9 °C**



# Innovative Headwear Preventing Heat Stroke for Outdoor Workers & Activities

## Soak in water, squeeze and put it on!

1 Soak it in water for 1 minute.



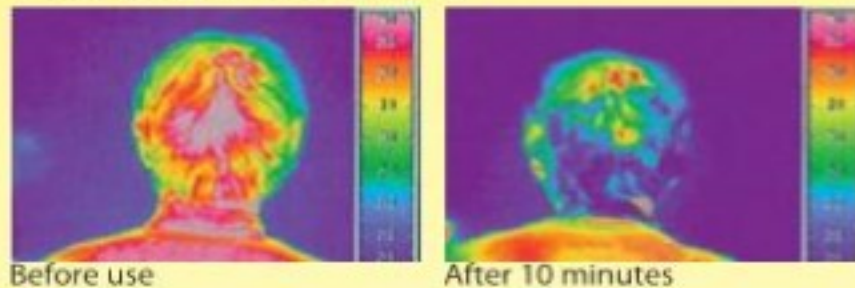
2 Squeeze it lightly.



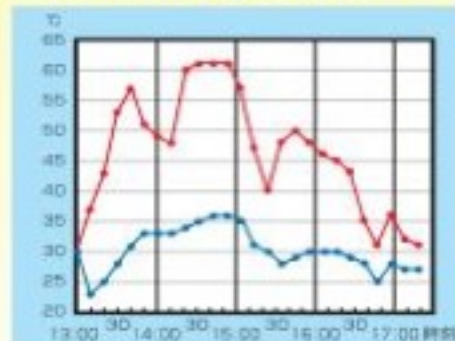
3 Keep cool putting it on under the helmet.



**10°C improved cooling effect. Feel the difference.**



**The surface of the helmet can reach extremely high temperatures in summer, but you can keep cooling your head back like blue graph.**



● Temperature on helmet surface  
● Temperature on the back of coolbit

The back of the head keeps cool for about 3 hours. Re-soak it in iced water and benefit from its cooling effects for 3 more hours.

Top seller with 7000 pieces sold!!



- Keeps your head cool
- Eliminates direct sunlight ☀️
- Cooling mechanism through effective head vaporization
- Targeted at outdoor workers, particularly construction, port, power maintenance, postal, etc

**Increases productivity, staff welfare**



- Cools the back of the head
- Designed to be comfortable while working or playing sports
- Eliminates direct sunlight ☀️
- Targeted at outdoor workers or sports like golf, baseball, hiking

More than ½ million units sold!

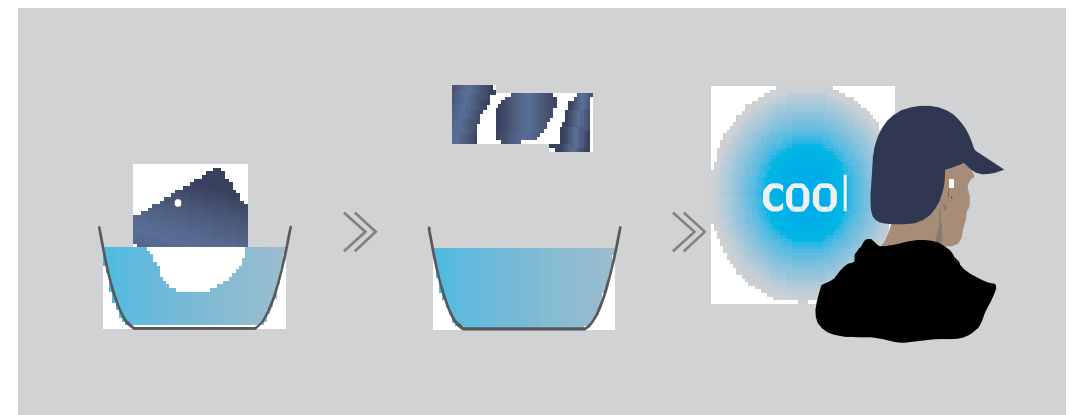
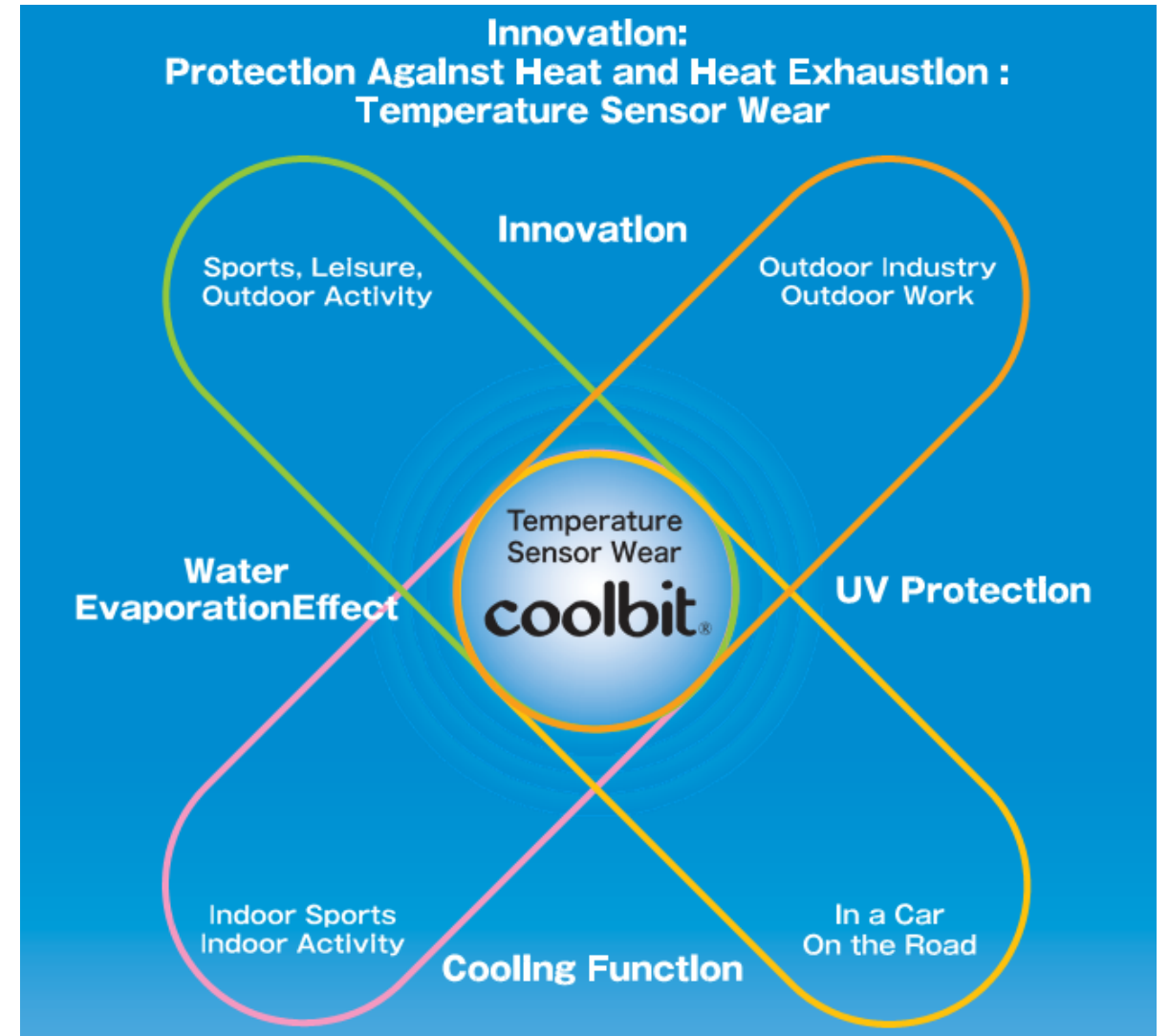


# Coolbit Hats



GAC Ventures  
新加坡亚世连企业

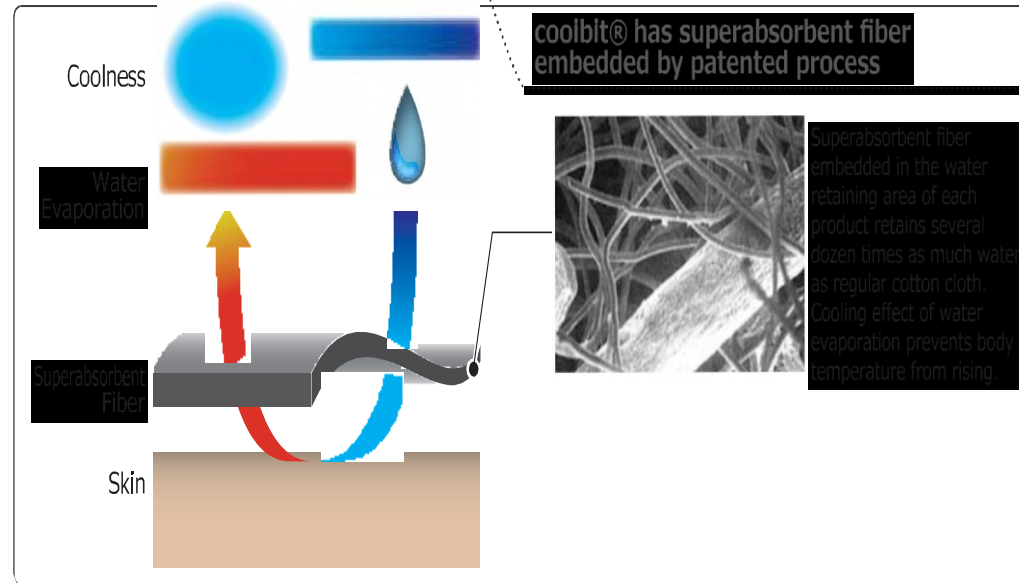
- **Functional textiles for indoor/outdoor activities**
- **Great when exercising in high intensity sun conditions or doing indoor/outdoor activities.**
- **Protects the back of your head from the UV and heat ray, keeping it cool.**
- **Instructions are provided**





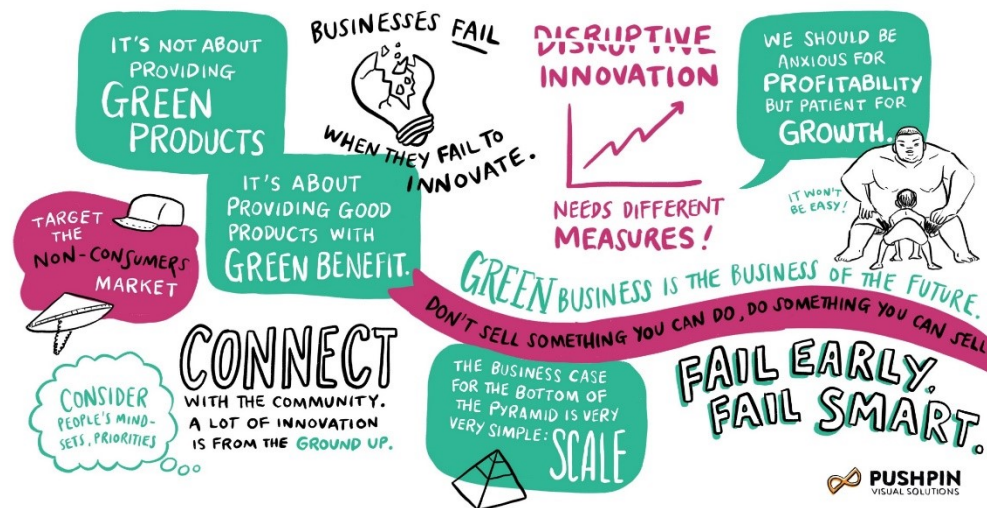
# Value Propositions

- **High Quality Fabrics**
  - **Super-absorbent fiber embedded by patented process**
- **High Compatibility**
  - **Corresponds with various anti-heat exhaustion products.**
- **Good design – detachable flap**
- **Suitable for all ages**
  - **Kids**
  - **Workers**
  - **Sports**



## INNOVATION AND GREEN BUSINESS

GREEN BUSINESS FORUM FOR ASIA AND THE PACIFIC | 22-24 NOV 2016



# The 10 Second Solution

Air Enters



The machine instantly turns on and fills the water with ozone



**Kills Bacteria**

Frequent washing promotes a cleaner environment

**Removes Pesticides**

No worries about unsafe fruits and vegetables

**Removes Odor**

Washing eliminates stench

**Keeps Food Fresh**

Reduces waste

Ozone oxidization kills bacteria on contact.

Ozone is efficient, safe, natural, has no lasting side effects and does not pollute the environment.

SGS test results achieve standards set by the **USA Food and Drug Administration (FDA)**.

# Benefits of Washing in Ozonized Water

- **Kill bacteria** - Ozone is nature's sanitizer. When ozone contacts bacteria, it destroys the membrane layer causing it to disintegrate. The bacteria-killing ability of ozone is 3,000 times that of chlorine.
- **Kills over 99% of bacteria in 10 seconds, including e. coli and salmonella.**
- **Remove Odors** - Ozone can remove unpleasant odors, fish-smell and the smell of smoke.
- **Remove pesticides** - Ozone is an oxidizer, it can quickly destroy the chemical make-up of pesticides found on the surface of fruits and vegetables.
- **Removes over 75% of pesticides in 10 seconds.**
- **Keep Food Fresh** - Ozone can kill the bacteria on fruits and vegetables that makes it spoil quickly, thus extending its life 2-3 times.



# Applications At Home

**Mopping  
the floor**



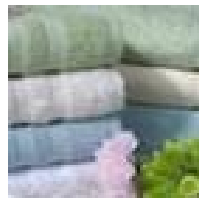
**Washing  
dishes**



**Washing the  
bathroom**



**Washing  
clothes**



# Food Preparation

**Wash  
vegetables**



**Keeps  
food fresh**



**Wash meats**



**Better drinking  
water**

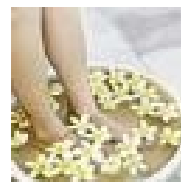


# Personal Hygiene

**Brushing teeth**



**Soaking  
feet**



**Washing  
face**



**Washing  
pets**



# 10 Second Machine Commercial

- ▶ A single food poisoning case will damage the reputation of a restaurant. The 10 Second Machine will kill over 99% of bacteria in 10 seconds, including e. coli and salmonella.
- ▶ Ozone is 3,000 times faster and stronger than chlorine.
- ▶ Cost savings - reduced food waste, reduced use of chemicals, reduced labor cost.
- ▶ Reduce risk - additional layer of protection.
- ▶ According to the USA FDA ozone is Generally Recognized as Safe for use in food processing, this includes for washing meat and vegetables.





# 10 Second Machine Commercial Applications

- ▶ Surface cleaning agent.
- ▶ Does NOT leave water marks on stainless steel and glass, reduces cleaning time.
- ▶ Clean restrooms, removes odors, reduces risk of cross-contamination.
- ▶ Removes unpleasant chlorine taste from tap water.
- ▶ Extended hours of continuous operation - appropriate for extended cleaning applications.



# What is O.F.R.L.?



**Optical Film Reflection Lamp is a lamp with delicate optical film, which is made by sophisticated and advanced technology and reflects 90% of the light generated from the lamp to the desired location in combination of well designed curvature control.**

**In year 2004, the Olympic Fire was lit by focused sunlight in Athens by this optical film reflection bowl.**





# Reflector Efficiency Test

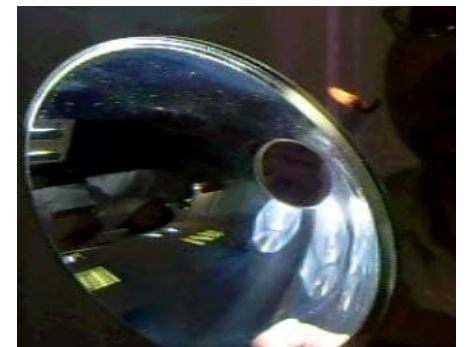


**Light Source:  
500Watt**



**Efficiency >92%**

**Tested by : Lighting  
Test & Evaluation  
Laboratory, ITRI,  
Taiwan**





# Better Light Distribution

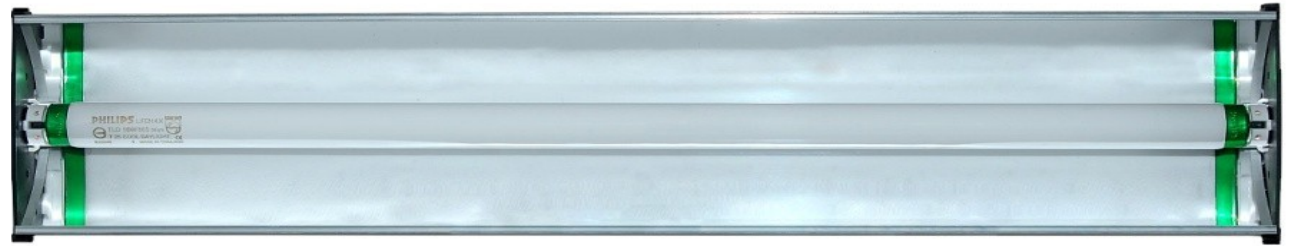
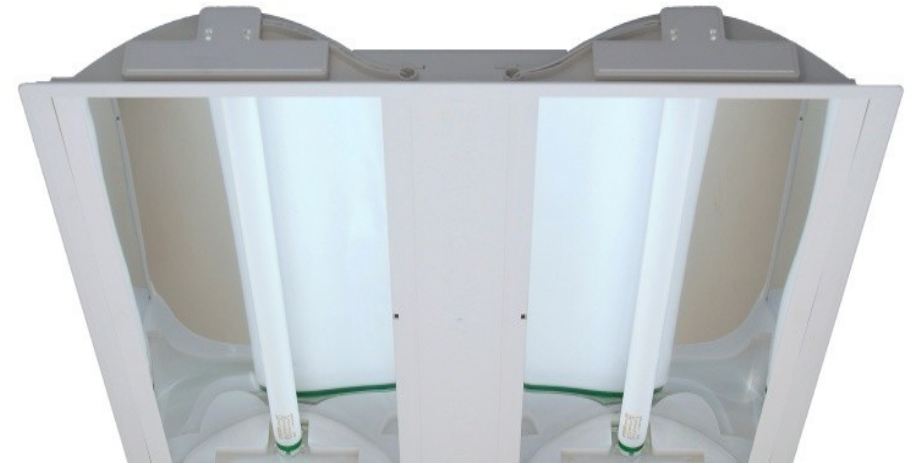


**Light distribution could be adjusted by changing the tube positions to accommodate different ceiling heights.**





# OFRL Product Range





# What Can OFRL Do?

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- Energy saving 75% ↑**
  - Good light quality (CRI) as traditional lamp**
  - Less heat , save more on air conditioning**
  - Big CO2 reduction & saving (Kyoto Protocol)**
  - Better light distribution**
  - Longer light source lifetime**
  - Very short payback period**
-





# Less Heat Generation



**Save more energy on air conditioning**



















# Energy Saving > 75%



Height (1.8 M)	Traditional	OFRL
Power Consumption	20W x 4 (115W include ballast)	14W x 2 (31W include ballast)
Illumination	283 LUX	430 LUX
Within 50CM Diameter	248 LUX	380 LUX
Within 100CM Diameter	183 LUX	322 LUX

# OFRL, LED, Traditional



Product Description	O.F.R.L.	LED	Traditional
Power Consumption (based on Traditional)	Low 	Medium	High 
Heat Dissipation	Good 	Bad 	Bad 
Weight (based on same power)	Light 	Heavy 	Medium
Light Quality (C.R.I.)	Good 	Bad 	Good 
Future Replacement	Easy 	Difficult 	easy 
Cost (based on 150W)	Medium	High 	Low 
Power Range	Unlimited 	Limited ( due to technology) 	Unlimited 



# Singapore Changi Airport



GAC Ventures  
新加坡亚世连企业



SINGAPORE CHANG I AIRPORT





Saturn Power Ltd.

# Application Example (3)



GAC Ventures  
新加坡亚世连企业



*Jason Lee*



Saturn Power Ltd.

# Application Example(6)



GAC Ventures  
加坡亚世连企业

## Panasonic Taiwan



*Jason Lee*





Saturn Power Ltd.

# Application Example(7)



GAC Ventures  
新加坡亚世连企业

**Traditional**

**OFRL**



*Jason Lee*

# Power Saving Reactance Filter



GAC Ventures  
新加坡亚世连企业

## Value propositions

- **Reduce power waste**

- Filter out non-effective harmonics
- Achieve reactance filtering
- 3-phase voltage balancing;
- High energy recovery from current devices at the premises

- **Applicable in all sectors**

- Integrated to provide multi-functions
- installed in the input of power source

- **Comes in 4 models**

- Factory type
- Commercial type
- Family type
- High-Voltage type





# About GAC Ventures

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GAC Ventures (GAC) operates the Green Trade Hub, an online platform not only promoting and profiling eco-products and environmental solution companies to the international marketplace, but also allows for 1-to-1 business matching with companies in 13 different markets across ASEAN, China, Japan and Korea by being plugged into the East Asia Business Exchange.

GAC also operates a **Growth Acceleration Centre (GAC)** in Singapore that offers physical space and facilities and growth acceleration support for both early and growth stage cleantech and IT companies, and the China-Singapore Cleantech and Fintech Accelerators together with IUIA backed by China Investment Promotion Agency.

GAC is behind the **Cleantech Marketplace Forum (CTMF)** connecting clean technologies with investment, financing, projects and markets across the region. It currently facilitates projects across different cleantech sectors including renewable, energy efficiency, waste management, environmental pollution control, water, sustainable agriculture, sustainable transport, control, water, sustainable agriculture, sustainable transport, etc. seeking investment and financing. CTMF is behind the **Asia Pacific Cleantech Marketplace Forum** held in conjunction with Global Cleantech Cluster Association (GCCA) Asia Pacific Gateway meeting during the Singapore International Energy Week.





## About GAC Ventures

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Regionally, it is also part of the GYRA consortium that is driving the growth and development of the **Creative, Greentech and Soft Infrastructure clusters** at **Clark Green City**, 90 km away from Manila, with the support of Bases Conversion and Development Authority of Philippines (BCDA).

GAC Ventures is an associate company of VisionEdge Technologies (VT) which is currently engaged by **Asian Development Bank (ADB)** as its implementation consultant to design and roll out a **Low Carbon Technology Marketplace (LCTM) for Asia Pacific**, another ADB-funded project with **HKEx listed Dynagreen**, a **China State-owned Enterprise in Waste-to-Energy**, based in **Shenzhen.**, and also Korea-based **Global Green Growth Institute (GGGI)** for a **Waste-to-Energy pre-feasibility study for Ulaanbaatar City for the Government of Mongolia.**

VT is a **Microsoft BizSpark Network and ISV Partner** and a member of **Singapore Business Federation (SBF)** and **Singapore Chinese Chamber of Commerce & Industry (SCCCI)**. VT is also a partner of **WIPO Green** and is able to tap on its network of associate partners across Bangladesh, China, Hong Kong, Japan, India, Malaysia and Philippines.

VT has been honoured as the **Best Company for Sustainability Cleantech South East Asia in International Alternative Investment Review (IAIR) Awards 2014** for its commitment to promote green businesses by assisting the expansion of high-growth technology-based companies, esp in the cleantech sector, and for its Business Incubator and Enterprise Accelerator Programmes which have been recognized by the most important sustainable and governmental institutions around.

An aerial photograph of a vast, cracked, and textured landscape, possibly a salt flat or a dry lake bed. The ground is a mix of light and dark grey tones, with numerous cracks and small pools of water. In the distance, a faint rainbow is visible against a clear blue sky. The overall scene is bright and expansive.

# Thank You

Contact:  
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GAC Ventures & VisionEdge Technologies Pte Ltd  
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Email: [patrickchan@gacventures.com](mailto:patrickchan@gacventures.com)