“Innovative Eco Products for Green Building and Landscape”

Technology and Sustainable Landscape Design
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Patrick CHAN
Chief Executive Officer, GAC Ventures
Managing Director, VisionEdge Technologies
Speaker

- 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
Green Trade Hub

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

HTTP://WWW.GREENTRADEHUB.COM
Green Trade Hub

Find Business Partners in Taiwan!

Search by Category

Search

Join as Member

Home  About Us  Member Benefits  E-Commerce Resources  News and Events  Contact Us

Site Search

We are excited to announce a new powerful search service that will allow you:

- post your product and be discovered by all our partnering trade associations' business communities
- do a single search to locate genuine and verifiable suppliers across our network of regional trade association business communities.

Use Your FREE Account to Reach International Buyers and Grow Export Revenue

POWERFUL E-COMMERCE PACKAGES FOR SMEs

Exclusive e-Commerce Solutions with all the essentials to grow your business online.

UPGRADE NOW

News & Views

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

Events Highlights

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

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

Featured Member
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
First As a Member, You Get a BASIC Account

Each member gets an account to immediately be connected

My Account

Upload Product
Browse Buy Leads
Search Partners
Document Library

Upload Content

My Trade Activities

Seller
Product(s) Added: 14
Purchase Order(s) Received: 2

Buyer
Buying Lead(s) Added: 1
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

Japan Chamber of Commerce & Industry (Tokyo)
China Council for the Promotion of International Trade
Korea International Trade Association
Federation of Malaysian Manufacturers
The Union of Myanmar Federation of Chambers of Commerce & Industry
Thai Chamber of Commerce
Thai Federation of Industries
Philippines Chamber of Commerce & Industries
Confederation of Philippine Exporters
Indonesian Chamber of Commerce
Indonesian Chamber of Commerce (Batam)
Singapore Business Federation
National Chamber of Commerce & Industry Brunei
Vietnam Chamber of Commerce & Industry
Lao Chamber of Commerce & Industry
Cambodia Chamber of Commerce

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

- Banking
- Logistics
- Insurance
- Credit Info
Some of our notable clients/distributors

**Food Safety Solutions from Farm to Fork**

- **APPLICATIONS**
  - 10-Second Purifier – Ozone Filtration System
  - Micro-Bubble Washing Stations
  - Micro-Bubble Bathtub System (Cabozi Micro Bubble System)
  - Micro-Bubble Industrial Applications in Agriculture, Rural Areas & Industrial Equipment

- **PRODUCTS**

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

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

- **PRODUCTS**

**Power Saving Reactance Filter**

- **FEATURE**
  - 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

- **MODEL**
  - 3-phase voltage balancing: reduce power waste; recover the best quality and most usable voltage and current devices at the same time

- **PRODUCTS**

**Energy Saving Insulation Coating**

- **FEATURE**
  - 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

- **PRINCIPLE**

- **PRODUCTS**

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

- **FEATURE**

- **PRODUCTS**

**Solar Brick**

- **APPLICATIONS**
  - Building wall, Greenhouse frame, Fence, Pillar
  - Billboard, Lantern, Bus stop, Sound proof wall, Installation art

- **PRODUCTS**
Solar Power Brick

• SPB builds a great balance between construction material and solar PV power.

• Feature:
  – [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

• 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.
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.

Before use
After 10 minutes

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

- 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
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

Remove Pesticides
No worries about unsafe fruits and vegetables

Remove Odor
Washing eliminates unpleasant smells

Ozone oxidation 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 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.**

• **Remove Odors** - Ozone can remove unpleasant odors, fish-smell and the smell of smoke.

• **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 the bathroom
Washing dishes
Washing clothes

Food Preparation

Wash vegetables
Wash meats
Keeps food fresh
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

Efficiency >92%

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

Light Source: 500Watt
Light distribution could be adjusted by changing the tube positions to accommodate different ceiling heights.
OFRL Product Range
What Can OFRL Do?

- 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%

<table>
<thead>
<tr>
<th>Height (1.8 M)</th>
<th>Traditional</th>
<th>OFRL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Consumption</strong></td>
<td>20W x 4 (115W include ballast)</td>
<td>14W x 2 (31W include ballast)</td>
</tr>
<tr>
<td><strong>Illumination</strong></td>
<td>283 LUX</td>
<td>430 LUX</td>
</tr>
<tr>
<td><strong>Within 50CM Diameter</strong></td>
<td>248 LUX</td>
<td>380 LUX</td>
</tr>
<tr>
<td><strong>Within 100CM Diameter</strong></td>
<td>183 LUX</td>
<td>322 LUX</td>
</tr>
<tr>
<td>Product Description</td>
<td>O.F.R.L.</td>
<td>LED</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Power Consumption (based on Traditional)</td>
<td>Low</td>
<td>Medium</td>
</tr>
<tr>
<td>Heat Dissipation</td>
<td>Good</td>
<td>Bad</td>
</tr>
<tr>
<td>Weight (based on same power)</td>
<td>Light</td>
<td>Heavy</td>
</tr>
<tr>
<td>Light Quality (C.R.I.)</td>
<td>Good</td>
<td>Bad</td>
</tr>
<tr>
<td>Future Replacement</td>
<td>Easy</td>
<td>Difficult</td>
</tr>
<tr>
<td>Cost (based on 150W)</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>Power Range</td>
<td>Unlimited</td>
<td>Limited (due to technology)</td>
</tr>
</tbody>
</table>
Singapore Changi Airport
Application Example (3)
Application Example(6)

Panasonic Taiwan

Jason Lee
Application Example (7)

Traditional

OFRL
Power Saving Reactance Filter

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
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

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.
Thank You

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