



# Green Specifier

Promoting, Financing, Sustainable  
Products, Technology and Services

## Plastic Recycling

# Who We Are

- ▶ Green Specifier was originally founded in 2002 by Richard McMillan as a business to promote environmentally friendly products to Specifiers in the architectural, design and engineering markets in Sydney.
- ▶ Manufacturers and Suppliers of enviro-friendly products were approached, and Green Specifier represented these products to specifiers.
- ▶ In 2018, established relationship in the sustainable funding sector Green Specifier started introducing within the capacity as a facilitator of low interest loan options to businesses wanting to grow across the globe.
- ▶ Green Specifier has been providing consultation and business planning
- ▶ Setup Charitable foundation - Saffron Aid

# What We Do

- ✓ Green Specifier promoting and marketing selected enviro-friendly products that help reduce energy and water usage, plastic, carbon and other pollution.
- ✓ In 2018 we commenced the service of acting as the introducer for a reputed group of lenders of low interest US dollar loans to clients that are looking to expand operations across the globe.
- ✓ Green Specifier works with businesses and organisations that are working towards achieving the United Nation's Sustainable Development Goals (SDG)



# Product Ranges We Represent

Green Specifier represent products, technology and services such as (but not limited to):

- Carbon Offsetting
- Plastic Recycling Technology
- Led Lighting
- Solar Technology
- Water Saving Devices
- Commercial and Industrial Roof Ventilators
- Commercial Cleaning Products
- Enviro-friendly building product, material or technology
- Loans to sustainable businesses and organisations



# Projects and Clients

Some of our clients include:

- ▶ West Australia Art Gallery
- ▶ Sheraton Hotel, Sydney
- ▶ Bovis Lend Lease
- ▶ Accor Group, Australia
- ▶ Qantas
- ▶ Virgin Australia
- ▶ Sydney Water
- ▶ Air Road Direct
- ▶ Sydney Water
- ▶ Mirvac

# Plastic Recycling

Green Specifier has worked closely with Plastech Recycling to help develop the Plastech Mixer Melter. Green Specifier is the sole agent for Plastech in India, Pakistan, Bangladesh and Myanmar.

This technology uses an innovative, unique, and patented process using mechanical (frictional) heat to simultaneously melt and mix used plastics so that infeed mix materials (plastic waste) generally do not require washing, blending, drying, shredding, granulating, or pelletizing beforehand.

This process significantly reduces the handling and processing costs associated with in-feed material preparation and ultimately produces extrusion-ready plastics at an estimated processing cost of \$400 per tonne, up to 60% cheaper than conventional recycling methods.

**With waste plastic now having a value that can be recognised and easily upcycled into value-added products, both developed and developing economies can benefit from recycling plastic instead of disposing of it.**

# Plastic Recycling

The Plastech Mixer and Melter machine will:

- ▶ Take all types of plastics, from 1 - 7
- ▶ No need to separate before processing
- ▶ Rigid and Soft Plastics together if required
- ▶ No need to wash/dry the waste material before processing
- ▶ Saves Time and Energy

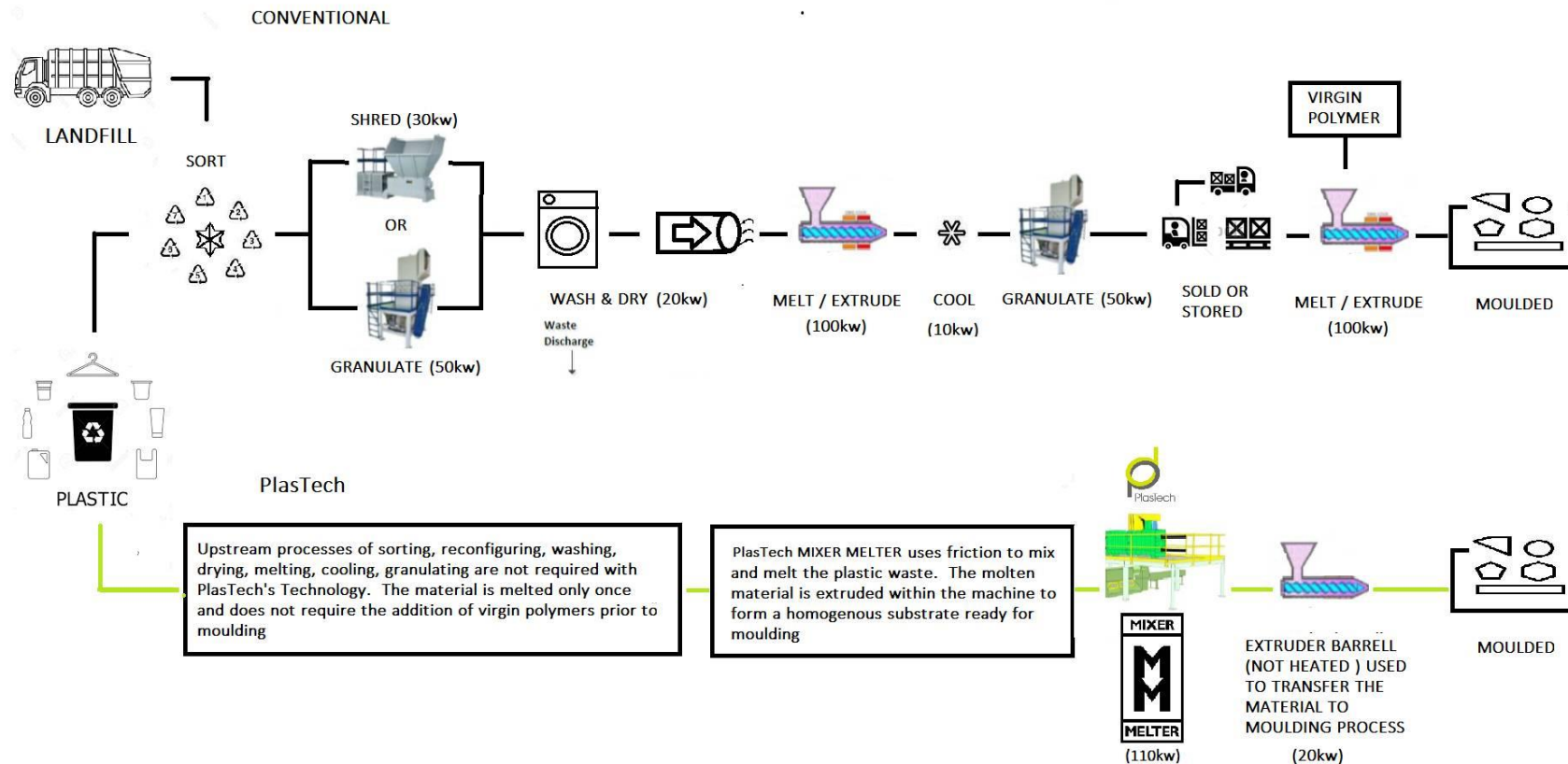
Benefits

- ▶ 50% of energy requirements of competing technologies
- ▶ Reduced Processing Cost
- ▶ Reduce Carbon Footprint
- ▶ Use of low grade and low-cost feedstock
- ▶ Reduces input costs
- ▶ Recycles materials that no other technology can
- ▶ Products produced made can be re-recycled over and over again
- ▶ Extends life of the polymer resource
- ▶ Reduces dependency on virgin plastics



# Comparison of the Recycling Processes

## COMPARISON OF PlasTech's DISRUPTIVE TECHNOLOGY TO CONVENTIONAL PLASTIC RECYCLING PROCESS



# Methods of Moulding

- ▶ Multiple types of moulding can be used on the Plastech Mixer Melter:
- ▶ Extrusion
- ▶ Injection
- ▶ Rotational
- ▶ Compression
- ▶ Casting





# Potential Products

- ▶ Car bump stops for parking stations
- ▶ Tomato and tree stakes
- ▶ Bollards
- ▶ Plastic wood for fences, decking etc
- ▶ Hoarding for construction sites
- ▶ Paving
- ▶ Roofing
- ▶ Low-cost modular huts
- ▶ Tubing for irrigation
- ▶ Water and feed troughs for farms
- ▶ Water tanks

Plus multiple more products





Plastic Wood



# Agriculture





# Cityscape furniture

# Green Specifier Team



**Richard McMillan (Managing Director)**

Richard is the founder of Green Specifier and has over 30 years of experience in the Australian sustainable market working in marketing, finance and project management. Founder and Chairperson of the Australian Not for Profit Saffron Aid. Richard has Bachelor of Education, Bachelor of Entrepreneurship, and a Masters of International Development



**Sanjay Bhatia (Director and Operations Manager)**

Sanjay has over 30 years of experience in India and Australia, joined, Green Specifier in 2019 after a career in Technology, Retail, Project Management in the Australian Sustainability market and Investment. With expertise in planning and operations Sanjay is focusing on expanding Green Specifier into the sustainable loans market. Sanjay has Bachelor of Commerce, Bachelor of Law.

# Key Contacts

Richard McMillan

- Managing Director
- 0411 703 044
- [richard@greenspecifier.com.au](mailto:richard@greenspecifier.com.au)

Sanjay Bhatia

- Director and Operations Manager
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- [www.greenspecifier.com.au](http://www.greenspecifier.com.au)



# Green Specifier

Promoting, Financing, Sustainable  
Products, Technology and Services

## Solar

# Solar Capabilities

- ▶ Using both Australian and international solar panels and batteries Green Specifier can instal and service:
- ▶ Domestic installations
- ▶ Commercial installations
- ▶ Solar farm installation
- ▶ Battery installation
- ▶ Connection to electricity network
- ▶ Construction of micro grid networks



# Commercial

- Installation on a logistics company's warehouse in Sydney Australia.
- 99kW Grid-connected system
- REC Solar Panels
- Fronius Inverter







# Domestic

- ▶ Installation in Sydney Australia.
- ▶ 6.6kW Grid-connected system
- ▶ Tindo Solar Panels (Australian made)
- ▶ Fronius Inverter
- ▶ Tesla battery

# Solar Farm



- ▶ Installation in Gatton Australia.
- ▶ 3.2 mW Grid-connected system
- ▶ Tindo Solar Panels (Australian made)
- ▶ Selectronic Inverters (Australian made)
- ▶ Power Plus batteries (Australian Made)





## SMART SOLUTIONS FOR WATER CONSERVATION



### ECOLOGICAL SHIFT

70% savings on hot water



### PROFITABILITY

Return on investment  
in 6 months



### POWERFUL USER EXPERIENCE



When I'm not home,  
I miss my HYDRAO



## SELF-POWERED AND EDUCATIONAL WATER MANAGEMENT SOLUTIONS TO MONITOR AND COMMUNICATE ABOUT YOUR ENVIRONMENTAL IMPACT

- Patented **SENSORS** : hydro-powered and connected
- 70% **SAVINGS** on water and energy
- Tools to **COMMUNICATE** about your savings and **CHANGE** behaviours

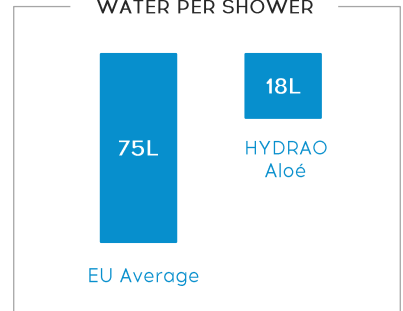
HYDRAO Showers drive:  
**-150€ SAVINGS**

Measured per person per year

An average shower in the EU is around 75L.  
HYDRAO Aloé monitored showers have an average of 18L

HYDRAO leverages on behavioural change and on its water efficient design to obtain these results.

### WATER PER SHOWER



### 0.42€ SAVINGS PER SHOWER



[...] providing real-time feedback has a large effect on water use [...]. The effect is stable over time. The technology used is **easily scalable to larger groups, and highly cost effective.**

Pr. Goette, in the study report.  
« Understanding resource conservation  
campaigns : Evidences from a field experiment »



HYDRAO provides real-time feedback on water usage through a colour code for helping users to manage their water and energy spending.



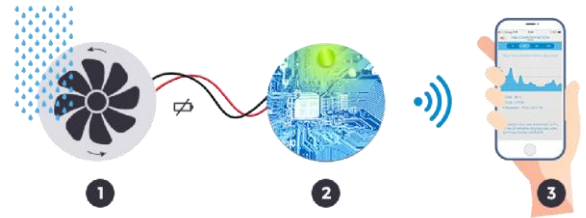
## OUR TECHNOLOGICAL EXPERTISE

Self-powered water management solutions

### BATTERY-LESS OPERATION

*Patented system : smart and water-powered*

1. Thanks to the water turbine, no battery needed!
2. HYDRAO lights change colors based on water usage
3. and connects with the app to sync data and monitor savings.

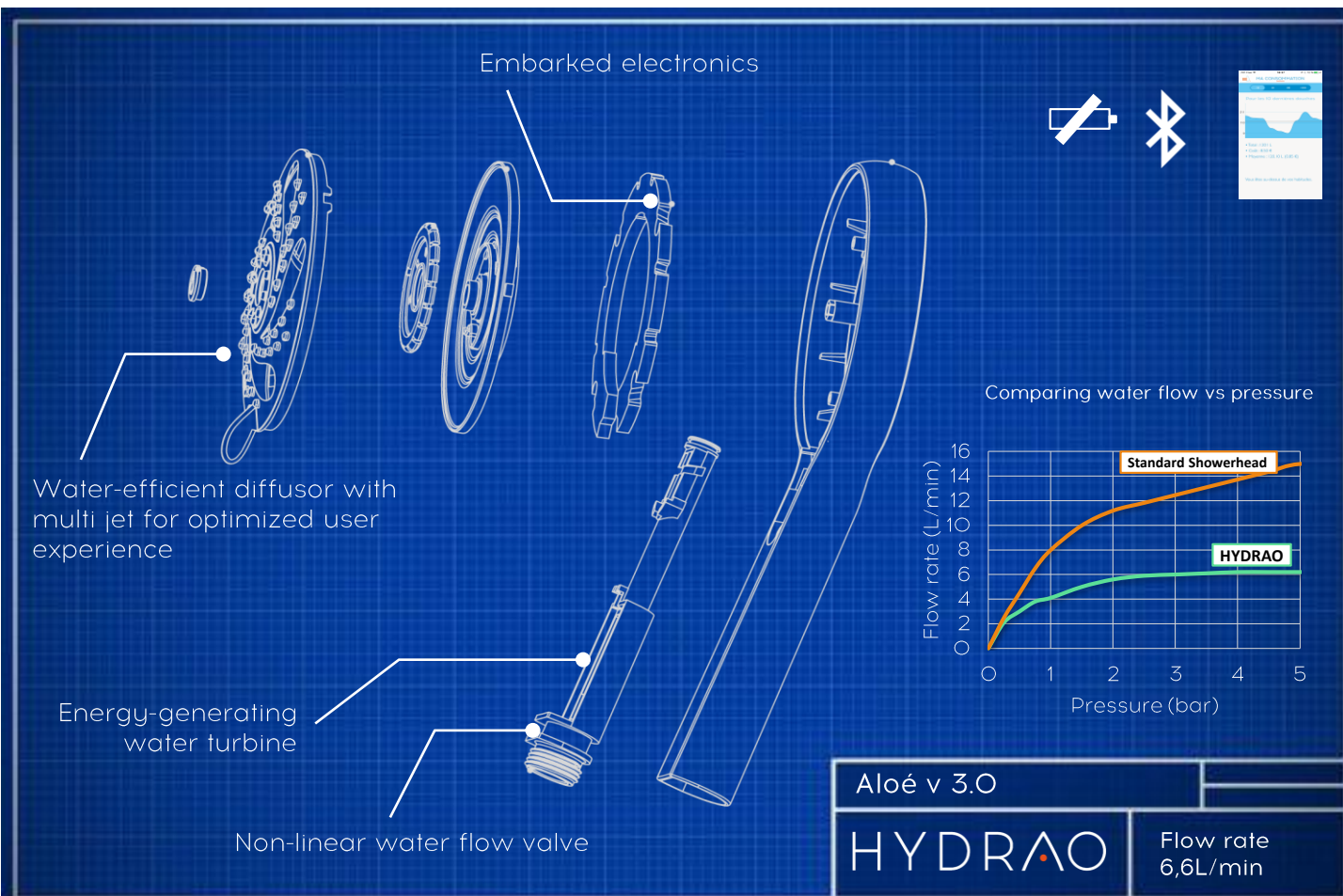


### MEASURE YOUR SAVINGS

*Thanks to our sensors wireless connectivity and our app*

### COMFORT AND WATER EFFICIENCY

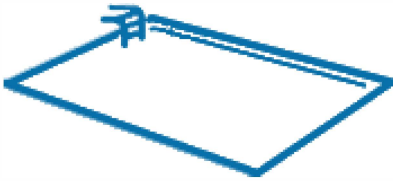
*Water-efficient design (6,6L/min) while maximising comfort (multi jet) and design innovation*





## OUR RESULTS

HYDRAO drove, in 2018, savings of:



x 200

Or 500 000 m<sup>3</sup> of water



x 2900

Or 2900t of CO<sub>2</sub>



x 1000

Or 16 GWh of energy

## OUR SOLUTIONS



## OUR TEAM

Grenoble-based  
company  
founded in 2015



Today 14 people  
of whom half  
are engineers

You have a project?  
Contact us!



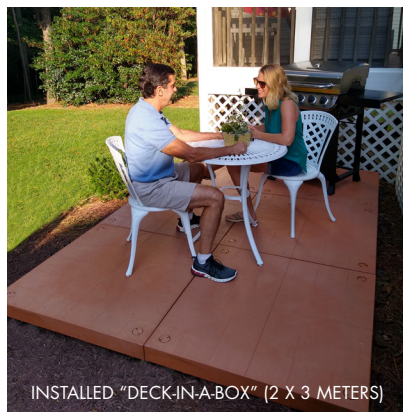
Green Specifier Pty Ltd  
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 M: 0411 703 044  
 Australian Agent





# enjoy a deck, landing or patio..anywhere you go

DRAMATICALLY ENHANCE YOUR OUTDOOR LIVING EXPERIENCE WITH UDECX™ MODULAR, PORTABLE AND DIY SYSTEM

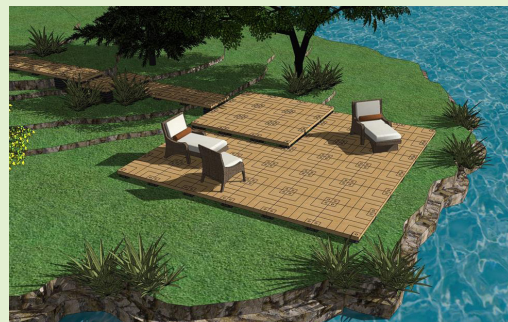


INSTALLED "DECK-IN-A-BOX" (2 X 3 METERS)

## DECK-IN-A-BOX — EASY DIY PATIO DECK SYSTEM

The UDECX surface is composed of one meter square pads. Pads are placed on top of piers and locked into place with a simple hand tool. Shims and risers enable the system to be leveled on uneven terrain.

The modular design allows the UDECX system to easily adapt to future needs. Available in Red Cedar or Flint Grey. The dimensions of the assembled boxed kit is 2 meters by 3 meters. Each "deck-in-a-box" comes complete with all the needed components. Easily expand with additional kits or individual components.



"I researched decking for months and I am so glad I bought UDECX. I am stunned at how easy this was to install (I am not a handyman and did it alone) and how great the quality is...even more importantly, the wife loves it."

**For more information contact a store representative or scan this code**





# *Reduce Your Power Bill*



## Green Specifier



**AUDITING YOUR ENERGY  
ALLOWS FOR YOU TO BECOME  
MORE ENERGY-EFFICIENT AND  
IN DOING SO, REDUCE THE  
COSTS OF RUNNING YOUR  
BUSINESS. WE CAN LOOK AT  
HOW YOUR BUSINESS USES  
ENERGY AND RECOMMEND  
HOW TO IMPROVE EFFICIENCY,  
AS WELL AS ASSIST IN  
ALTERNATIVE ENERGY SUPPLY  
AND GENERATION.**

Our Advisors will help you to  
evaluate and implement  
changes to: minimise  
operating costs reduce  
carbon emissions raise your  
business profile



It is important to involve staff across the business when implementing changes to ensure success in achieving energy efficiency and cost savings. We can help you engage and communicate with your team to build awareness on best practices.

Our Level 1 and 2 energy audits are in accordance with AS/NZS 3598:2000.



**LED LIGHTING -  
WAREHOUSES, CARPARKS**

**SOLAR - OUTRIGHT OR  
PUBLIC PRIVATE  
PARTNERSHIP**

**CARBON ASSESMENTS**

Contact us;

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**Green Specifier**

## PolyWaste Substrate Properties

### Introduction

PolyWaste substrates are produced from co-mingled plastic feed materials that can include thermoplastic materials of all types. Generally the feed materials are predominantly LDPE, HDPE and PP but all other thermoplastic materials can be introduced including ABS, HIPS, nylons, PET, polyesters, urethanes, polycarbonate and more. The co-mingled feed material is homogenised within the unique PolyWaste mix-melt process, producing a mouldable/extrudable substrate with valuable mechanical and physical properties.

The substrates are suitable for use to produce extruded products or injection moulded products. It is a low to medium flow injection moulding grade developed for rigid components requiring good impact strength. It generally exhibits good UV resistance where used food packaging and used consumer goods have been utilised within the feed materials. Additional stabilisation can be added where feed materials are largely not already UV stabilised.

### Typical Properties

PolyWaste Substrate Properties			
Typical/Expected (from co-mingled feed)			
Property	ASTM Method	Unit	Value Range
Specific Gravity	D792	g/cc	0.92 – 0.98
Melt Flow Index	D1238	g/10 min	5 – 25
Mould Shrinkage	D955	%	0.7 to 2.0
Tensile Strength	D638	MPa	> 16
Young's Modulus	D790	MPa	200 approx
Thermal Expansion Coefficient	D696	per °C	$1 \times 10^{-5}$
Recyclability			100%
Insect Resistance			High
Termite Resistance			100%
Weather Resistance			High
Chemical Resistance			High to most chemicals



## **Processing**

### **Injection Moulding**

PolyWaste substrates can be processed in moulding machines provided any potential non-plastic contaminants (metals, etc) are verified as not present or are suitably screened. The processing temperature as the melt leaves the die should be between 150-200°C.

Mould temperatures are usually between 20-60°C with the higher temperature producing a better surface finish. Hold injection pressures for minimum shrinkage.

### **Extrusion Moulding**

PolyWaste substrates are suitable for extruding panels and profiles of various sizes for the construction and building industry. The extrusions serve as a timber substitute in a myriad of applications where structural certification is not required. Colouring can be added during the extrusion process although a painted finish is preferred in some applications.

## **Applications**

The homogenised PolyWaste process substrates are suitable for the manufacture of a wide range of products including:

- Furniture items;
- Decking;
- Raised garden beds;
- Pots;
- Mouldings;
- As a timber substitute;
- Car bump stops;
- Kerbing armour;
- Weather and rot resistant infrastructure items;
- Sheeting and panelling;
- Tiles, pavers; and
- Much more.

## **Safety Considerations**

### **Handling**

PolyWaste comingled substrates may generally be regarded as biologically inert and chemically unreactive and present no toxic hazard, either from skin contact or inhalation under normal conditions. However, contact with molten polymer should be avoided in all circumstances.

**Processing**

When compounds are heated during processing traces of fume will be produced from decomposition or oxidation. Any hazards can be eliminated by ensuring adequate fume removal and all work areas should be thoroughly ventilated. In some circumstances where odour may be generated from contaminants or polymers containing halogens are present in significant quantities, the ventilations system may require the addition of dry scrubbing system (eg activated carbon or similar).

**Fire Precautions**

In common with most other organic polymers PolyWaste substrates are combustible. However, fire retardants can be added to specification during compounding in order to achieve many fire resistance ratings.



# Water - Energy Nexus

1

## Vortex Process Technology (VPT) for Cooling Towers Physical Water Treatment to Reduce Water - Energy - Chemicals

### Background

Water in cooling towers needs to be treated to control microbial growth, scale formation, and metal corrosion. Also, the heat transfer performance of the cooling tower must also be maintained, which correlates to the energy consumption. Approximately 98% of the US cooling towers use only chemical water treatment.

The use of Physical Water Treatment technologies for water-cooled cooling towers is growing in the U.S. and has been more widely used primarily in the EU where restrictions on chemical discharge and environmental policies encouraging lower chemical usage are wide- spread.

The innovation, developed by the manufacturer Watreco AB, Sweden, has achieved reduced water and energy usage and lowered chemical usage in the cooling towers in Europe where the technology has been developed and deployed at breweries, data centers, refrigeration warehouses and other commercial locations. The VPT solution has also been successfully deployed and verified at SCE customer sites that include, a biotech company, hospital R&D facility and large hotel resort. VPT for cooling towers is intended to supplement traditional water treatment practices with a more environmentally sound, consistently repeatable and efficient approach.

Funding for the projects originated from the SCE Emerging Products Group and the California Energy Commission's Electric Program Investment Charge (EPIC) Program. These investments follow an emerging technology innovation pipeline design, funding technology demonstration and deployment, and market facilitation for commercially ready but under utilized technologies. The goal is to create new energy solutions, foster innovation, and bring clean energy ideas to the marketplace.

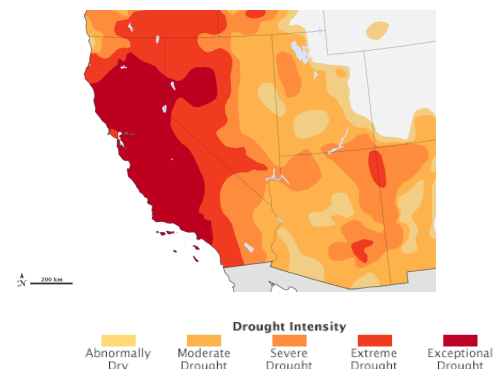
### SCE customer assessments

#### Biotech and Resort



## 3,285,000

This is the annual total gallons of water saved from California assessment projects



Currently installed by 50+ customers in in the EU

Deployed at installations in the EU: Breweries, Food Processing, Commercial Office, Data Centers, Ice Rinks, Chemical Manufacturing



C Y P R E S S L T D

Energy Advisory  
[www.cypress-ltd.com](http://www.cypress-ltd.com)  
[support@cyp-res.com](mailto:support@cyp-res.com)  
<https://www.h2ovortex.com>

## End Use Applications



Save Water Energy and  
Chemicals



Prevent / Remove  
Calcium Scale



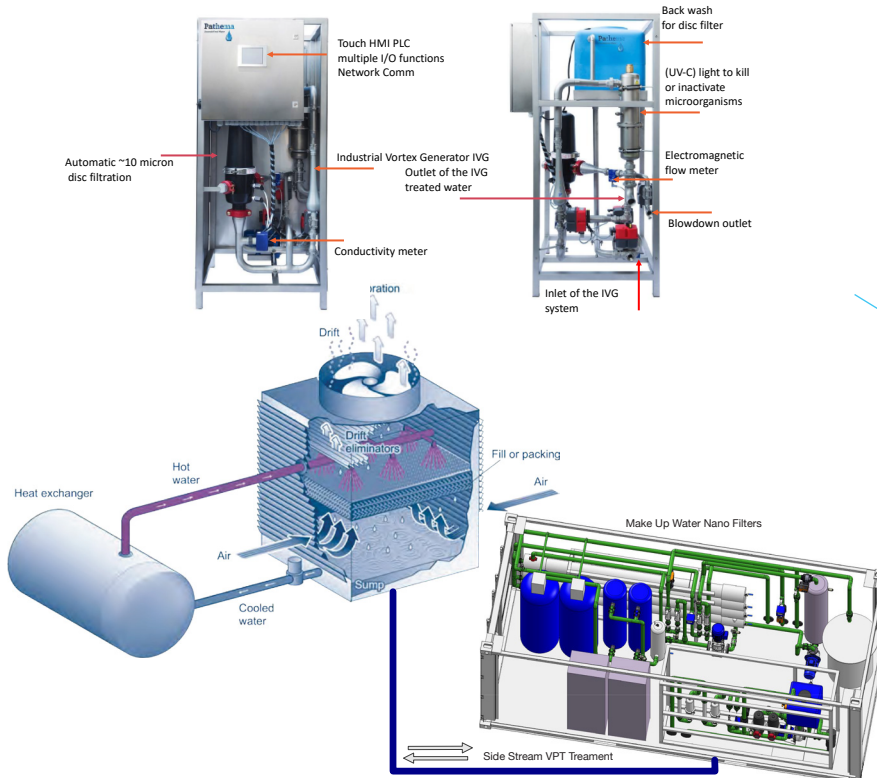
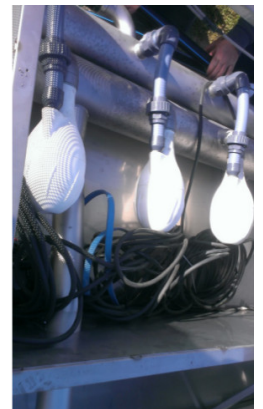
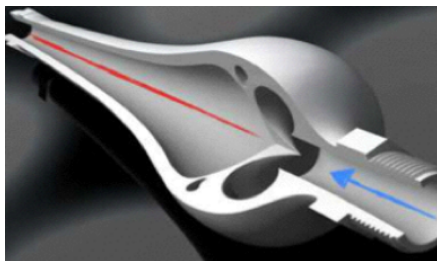
Higher Yield  
Less Water



Hard Clear Ice  
Use Cold Water  
Saves Heating and Chiller  
Energy



Mix Efficiently  
Aerate



The VPT for Cooling Towers  
can be applied as a basic  
side stream treatment or  
with nano-filters to achieve  
maximum COC



CYPRESS LTD

Energy Advisory  
www.cypress-ltd.com  
support@cyp-res.com  
<https://www.h2ovortex.com>

# Technical Summary- Cooling Towers

1. Eliminates or significantly reduces lime scale in water treated using the VPT-CT system. Soluble forms of calcium such as calcium bicarbonate ( $\text{CaHCO}_3$ )<sub>2</sub> are transformed into calcite and aragonite, which do not attach to pipes, nozzles or other warm surfaces and which are also removed.
2. Removes micro-bubbles of air, air, resulting in decreased viscosity from 5-17%, as well as better heat transfer than untreated water
3. Scale control and partial bacteria cell wall disintegration
4. Removes unbound gas (air, CO<sub>2</sub>) from the water by a vacuum in the middle of the vortex – controlled cavitation due to the design of the unit
5. Calcium bicarbonate ( $\text{CaHCO}_3$ )<sub>2</sub> in the water is forced to precipitate out in the form of calcite ( $\text{CaCO}_3$ ) – primarily aragonite crystals which have minimal scaling properties – does not precipitate on surfaces
6. Decrease viscosity due to removal of micro-bubbles of ~5%-18%; improves heat transfer
7. Nano -Filtering: Automatic, continuous filtering of the make up and cooling water
8. UV-C microbiological control system
9. Performance Monitoring: Industrial PLC control with sensor inputs with both local cloud based remote monitoring, alarming, trending and reporting to control COC based on water quality conditions

Based on a review of CEC data we have estimated that 6,985 GWh or ~35% out of the total 20,061 GWh used in California on cooling and refrigeration is for water- cooled equipment. We also estimate conservatively that 1.17 Billion Gallons of potable water is used per year in cooling towers for commercial buildings alone. Given California's current prevailing drought conditions, this is a prominent concern.

## Benefits for Cooling Towers

### Water savings

1. by operating the cooling towers at higher cycles of concentration (COC @ 8 - 10 with optional nano-filtration)
2. Can reuse up to 100% blowdown water for other purposes such as irrigation and lowers onsite waste water treatment requirements
3. Avoids waste treatment and pumping costs

### Reduced chemical use

1. Lower usage of purchased chemicals and services
2. Reduction of toxic elements in blowdown water less stress on water treatment and runoff

### Save energy

1. Degrading and preventing cooling tower scale- Estimated from 2% to 5% improvement at site and has better heat transfer properties
2. Additional upstream kWh/kW savings from reduced water pumping and water treatment

### Ongoing monitoring of performance

1. Performance Monitoring and integrated PLC control system
2. Consistent with Best Practices
3. Cloud based dashboard, alarming, trending and reports

Example at Heineken: "After deployment of the VPT-CT, the evaporative condenser can be operated without chemicals. The application was without the formation of lime scaling, corrosion or microbiological activity. By recycling the tower water it is possible to achieve 100% water savings by deploying rinse water from the brewery."



Energy Advisory  
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[support@cyp-res.com](mailto:support@cyp-res.com)  
<https://www.h2ovortex.com>



## Example Results - Cooling Towers

Based on detailed Measurement and Verification following the IPMVP standards and conducted by an independent Professional Engineer the VPT as applied to cooling towers has shown promising results.

**Location:** Hospital R&D Facility, Duarte CA, 240 Ton Chiller, Fall of 2015

**Challenge:** Demonstrate reduced water, energy and chemical usage by implementing an innovative 'physical water treatment' technology.

**Solution:** SCE sponsored Emerging Technology Assessment installation of the VPT technology and a 3-month detailed Measurement and Verification

### Results:

240 ton

Reduced Energy Use	3.8%
Reduced Chiller Use	9%
Reduced Water Use	42%
Reduced Chemical Use	42%

**Location:** Resort, Rancho Mirage, CA

**Challenge:** Demonstrate reduced water, energy and chemical usage by implementing an innovative 'physical water treatment' technology.

**Solution:** California Energy Commission EPIC project to measure and verify energy, water and chemical reductions from VPT

### Results:

900 ton

Reduced Chiller Use	6.4%
Reduced Water Use	30%
Reduced Chemical Use	33%
Improved COC from 2.3 to 7.5 COC	
Expected ROI 48% 2.3 Yr Payback	

**Location:** Thousand Oaks, CA One of the world's leading biotechnology companies

**Challenge:** Demonstrate reduced water, energy and chemical usage by implementing an innovative 'physical water treatment' technology.

**Solution:** California Energy Commission EPIC project to measure and verify energy, water and chemical reductions from VPT

### Results

2000 ton

Reduced Chiller Use	6.5%
Reduced Water Use	15%
Reduced Chemical Use	50%
Improved COC from 3.6 to 8 COC	
Expected ROI 43% 2.5 Yr Payback	

Example: Existing VPT-CT Installed on EVAPCO towers in Europe

- 3,500 tons operating currently at 12 COC and zero chemicals





# Water - Energy Nexus

Vortex Process Technology (VPT) for Agriculture, Aquaculture, Hydroponics

INNOVATION TO TRANSFORM TO A HEALTHY, SUSTAINABLE AND COST EFFECTIVE  
GROWTH SYSTEM

## Challenge

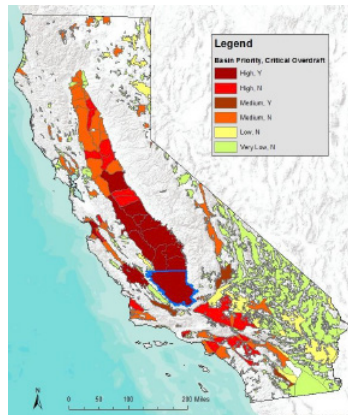
Ensure that **Food, Energy and Water** resources are sustainable and reduce energy-water use and improve crop productivity.

## Context

Agriculture is the largest consumer of all available freshwater: 70% of "blue water" withdrawals from watercourses and groundwater are for agricultural usage - and it is growing. In California major aquifers are vulnerable and in decline, can have minerals and other substances harmful to crops... And the drought continues.

We offer technology that supports healthy growth, reduce toxins and improve production

- Optimization of water and nutrients
- Saving water and energy resources
- Maximizes the environmental benefit to natural resources
- Offers small micro-growers the same high tech corporate growers have



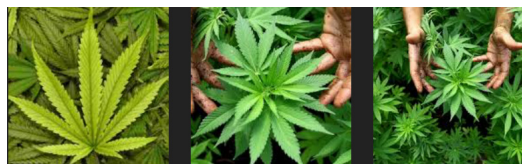
Industrial Vortex Generator IVG



Flowmixer™  
Aeration - add sO2 Mixes



IVG and Flowmixer Grow Kit



## Effects:

- Softens water, introduces oxygen micro-bubbles to the water, improves water/soil penetration, bonds more completely with plant nutrient inputs, enhances root and plant growth, induces seed germination, saves 10-20% on water consumption.
- Lessens need for plant fertilizers, insecticides, herbicides and fungicides by increasing solubility of inputs, lessens need for wetting agents, saves 30-50% on chemical inputs.
- Increases plant yields due to improved nutrient absorption, increases plant vigor and disease resistance, productivity boost of 10-30%
- No adverse by-products created, no energy-input requirements, benefits health of people, plants and livestock
- Oxygenation of irrigation water can lead to yield increases varying from 10-80%, depending on crop type and soil type. It can also increase water efficiency with savings of up to 27% compared to non-oxygenated water.

**Example: Greenhouse** at Advanced Horticulture Company

**Challenge:** Study the effect of using IVG on enhancing the productivity and crop properties under the local greenhouse conditions. Improve yield with same amount of water

## Results:

- Faster growth growing +2 cm higher
- Equal number of seeds creating +10% viability
- Crop yield was +6.35% higher
- Lower rejection rate of nearly -20%
- +5% increase in the weight of the roots

**Example: Swedish University of Agricultural Sciences**

**Challenge:** Examine if treatment of the water used in nutrient solution with the IVG and Flowmixer impacts early growth of plants compared with nutrient solution based on non-treated water

## Results:

- Faster growth
- Greater leaf area and weight
- Greater plant height and stem width

**Example: Pre-treat RO System**

**Challenge:** Assess impact of Vortex Generator as a pre-treatment for RO system

## Results:

- Water reject 25% vs baseline 40-50%
- Lower energy use
- Chemical savings 25%
- Extended life of RO membranes 1 yr.
- Removes 85% of the calcium

Awarded to EU Technology Provider



Created/Patented by Watrec A.B., Sweden

(<http://www.watreco.com/engelska.php>)

Worldwide Distribution H2oVortex s.a.r.l., Luxembourg

(<http://h2ovortex.com/?lang=en&page=homepage>)

USA: [support@cyp-res.com](mailto:support@cyp-res.com)

<https://waterenergynexus.us>



C Y P R E S S L T D