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the
**GREEN
LIVING**
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The Green Living Magazine is a Green Living Network Publication

Editor: Tina Raines

Editorial Assistant: Alison Kroes

Art Director: Margriet O'Reilly

Advertising: mary@greenlivingnetwork.co.nz

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Green Living Network Ltd

PO Box 125099, St Heliers

Auckland 1740, New Zealand

Phone: +64 9 521 2499/021 940 950

Fax: +64 9 521 2359

Email: enquiry@greenlivingnetwork.co.nz

www.newzealandorganicexpo.co.nz

www.thegreenlivingshow.co.nz

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Hello.

You cannot create anything you want from life if you do not have a vision of how you want your life to be. Often we only see obstacles. This is where dreaming and imagination is critical. The state of mind frees us from limiting beliefs and reconnects us continually and sustainably to a tangible outcome.

Welcome to the 6th Green Living Show 2016, the longest running green event in New Zealand. We would like to thank all our sponsors, exhibitors, seminar speakers and supporters, our charity partners and the team at Green Living Network and everyone who has made this expo a success. We would also like to thank our visitors who have made an effort to attend the expo in winter to buy, learn, and be educated with our 45 plus seminars including demos and pop-up BE Fit Auckland classes.

We have a hugely important role to play in sustainability. The strong and passionate belief that consumers have that businesses “doing good” support a better world, sends a clear and transparent message to companies about what we need and demand in terms of sustainable and ethical production and sourcing. We are unquestionably experiencing a rise in public awareness with regards to our irresponsibility and unsustainability. Is your business listening? Consumers expect to see sustainability and ethics at the core of business strategy. They expect a company’s sustainable investment to produce measureable monetary results so that the end product will be one that is good for the consumer, our community and our earth. A socially just and ecologically sustainable world must include a creative vision for the sake of a sustainable future.

Finally money is no longer a dirty word in sustainability, it is now taken seriously as companies take into account their impact on the environment, how they run their business, how they treat people and the bottom line considers employees.

Enjoy the Green Living Show! Get your free subscription of the Green Living Magazine and check our website www.greenlivingshow.co.nz.

Best wishes for the rest of the year.

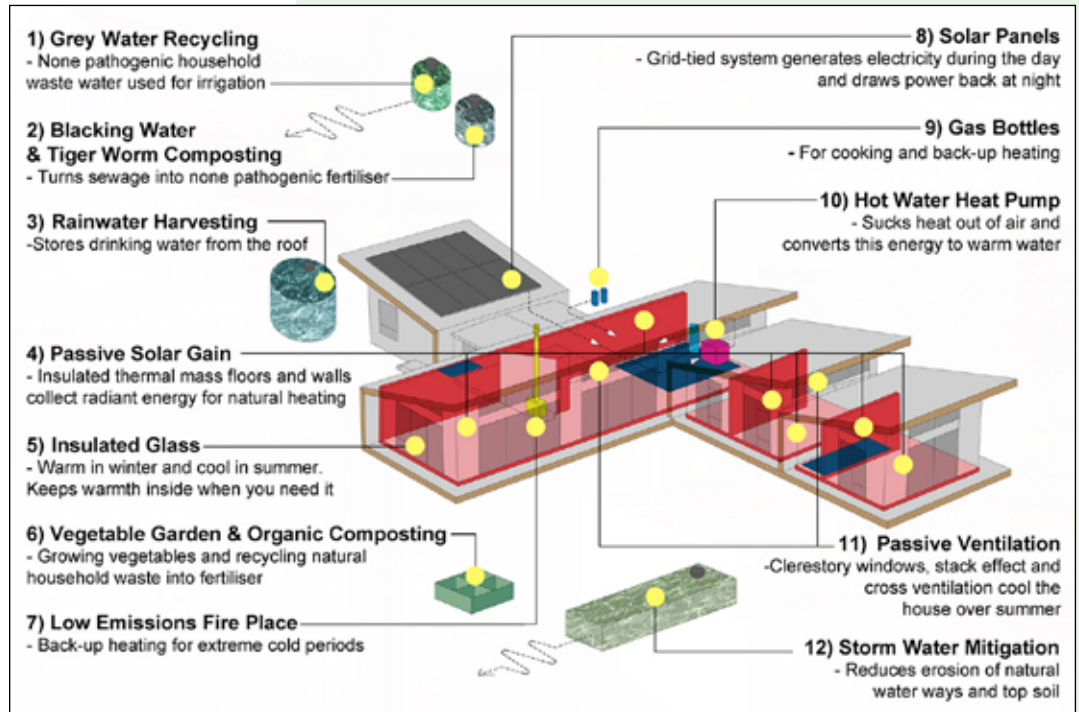
Tina Raines

EDITOR

8 ENVIRO-PRINCIPLES FOR BUILDING GREEN

The 8-Enviro Principles are based on key environmental sustainable design strategies which can be incorporated into any green building project, and are what I base my work on as a designer, who produces environmental buildings. I have summarised and simplified them based on 12 years of practical experience in the architecture and design industry, working both nationally and internationally.

Diagram: Eco-Strategy, showing extent of Environmental & Green Technologies



Energy Consumption

Energy consumption directly translates to carbon dioxide emissions, ecological destruction of the environment, and ultimately climate change. By reducing energy consumption we are improving the environment and helping reduce climate change.

Solar Analysis

Solar analysis is informed by seasonal sun path directions, northerly orientation and, site specific climate data. This information is then analysed, interpreted, and used to develop a site specific environmental design approach of a project.

Solar Floor Plan

Solar floor plans are orientated in a northerly direction for optimised sun light exposure throughout a house. The layout of the floor plan will follow seasonal sun path directions for different times of the year, and different times during the day.

Passive Solar Gain

Passive solar gain optimises low angled winter sunlight for natural warmth and passive heating. Concrete (thermal mass) captures and stores sunlight (radiant energy). When external temperatures begin to cool during the evening, heat is then released (or conducted) from the concrete, naturally warming and heating a house.

Passive Ventilation

Passive ventilation strategies utilise natural airflows for cooling. Seasonal wind directions are used for cross ventilation and stack effect creates a natural exhausting system with continuous airflow movement through the house.

Passive Design Strategies

There are three key principles we make passive design from: 1) Insulation and a thermally sealed building envelope where heat is unable to escape, 2) Retaining airtightness inside the home and preventing warm air from escaping and, 3) We require some form of heat source e.g. heat from sunlight, human body heat and, heat from electrical appliances.

Eco-Interior

Materials are selected on 'Cradle to Cradle' concepts of thinking. This is a circular process in how we perceive and think about materials. The objective is to carefully consider how we choose, use and recycle materials, based on ethical selection, economy and best choice for the environment.

Eco-Strategy

By utilising smart and balanced combinations of environmental sustainable design strategies, with green technologies, we are able to achieve smart and economical design solutions that improve living conditions, reduce harmful impacts on the environment and ultimately reduce climate change.

For people interested in more information and environmental diagrams which go into more detail about the 8-Enviro Principles, please visit the below website. ■

Written by Duncan Firth www.solarei.com