

Energy Efficiency

– Costs, Benefits, Programs

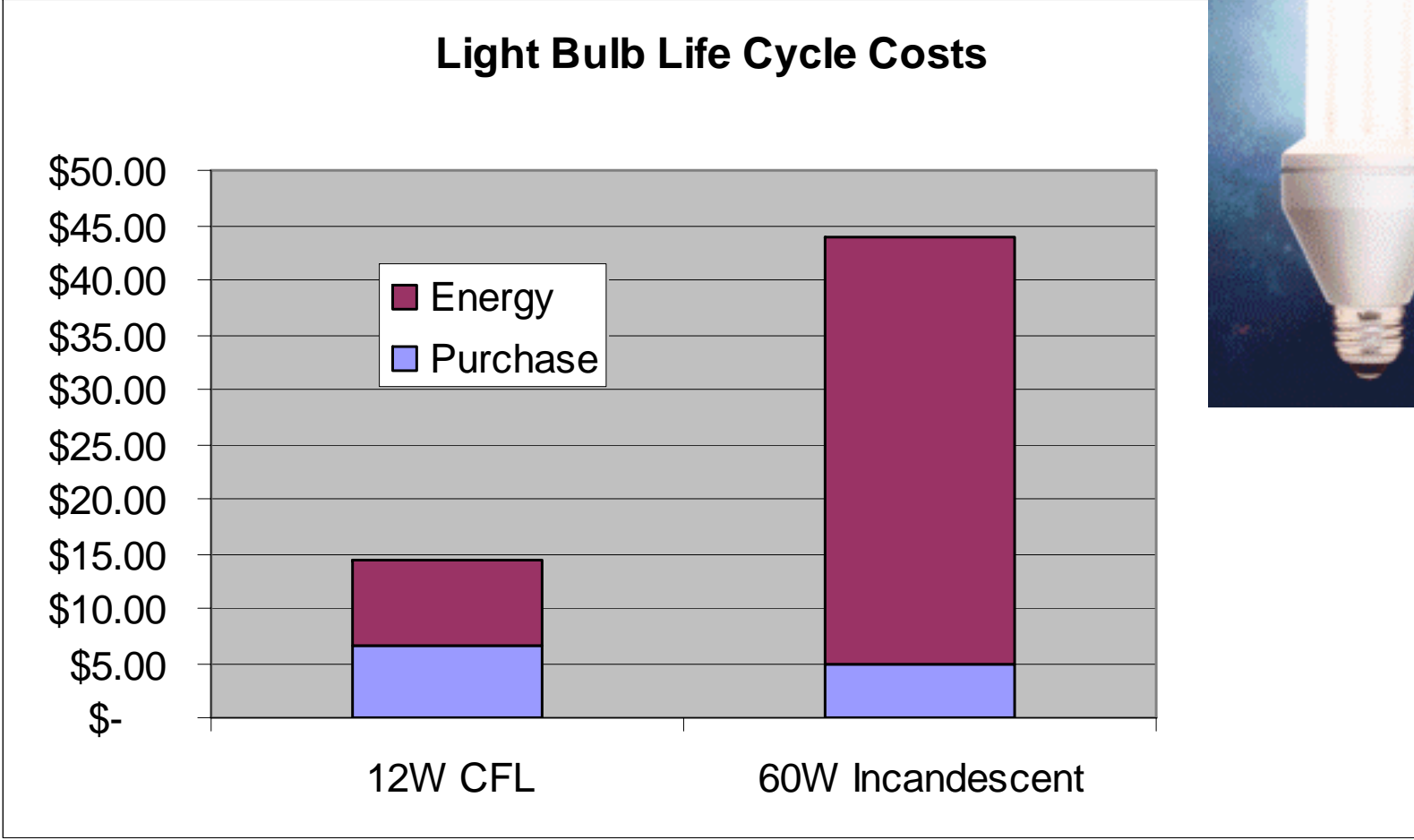
John Quinn

Director, Sustainable Industry Programs

Costs and Benefits

- Costs
 - Surprisingly low
 - NIL for Behaviour Changes
- Benefits
 - Reduced Costs (energy, maintenance)
 - Increased Margins
 - Hedge against future price rises
 - Staff morale
 - Customer appreciation

Compact Fluoro pays back if others are Free !



Savings Impact on Profit

Given 5% Margin:

**\$1,000 of Savings equates to
\$20,000 of Sales Every Year !**

Change 10 Globes (12 Vs 60W)

- **Cost < \$50** (DIY)
12 hours/day, 250 Days (3,000 hours)
- Saving **\$216 per year** + 2 bulb changes
- **Equals Sales of >\$4,320** per year (at 5%)



ClimateSmart Home Service

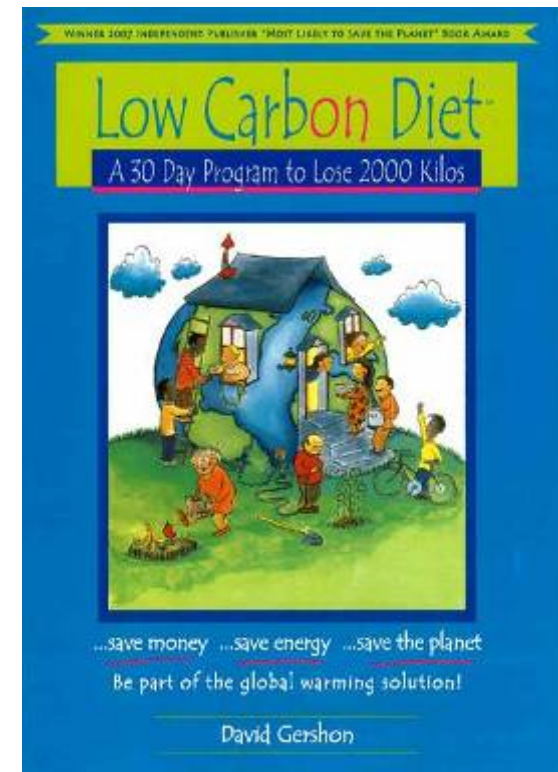
- \$50 Service
- Wireless Energy Monitor
- 15 Light Globes
- Shower Head Fitted
- Efficiency Plan
- Save up to \$250 annually (Energy + Water)

- Aim 260,000 Homes to be serviced over 2 years



Low Carbon Diet

- 30 Day plan to lose 2,000kg CO₂e
- Get Involved as a:
 - Community Group
 - ecoTeam
 - Individual
- Funding for Community Groups
 - **Next Round Closes**
24 AUGUST



Low Carbon Diet

- Low Carbon Tips including;
 - Lighting
 - Cooking
 - Cleaning
 - Waste
 - Pools
 - Transport
 - Green Energy



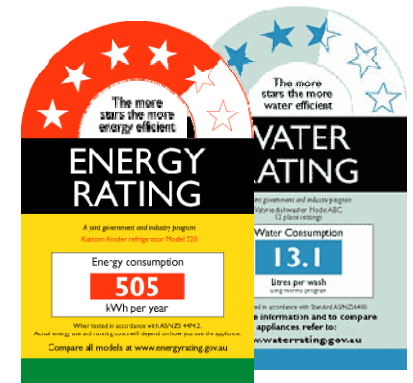
Queensland Solar Hot Water

- **\$500** Solar Hot Water Program (incl **Heat Pumps**)
- **\$100** for Pensioners and Low Income Households
- Relies on Federal \$1600 Rebate
- Installations from August 2009
- Register at:
**www.cleanenergy.qld.gov.au or
phone 132523**



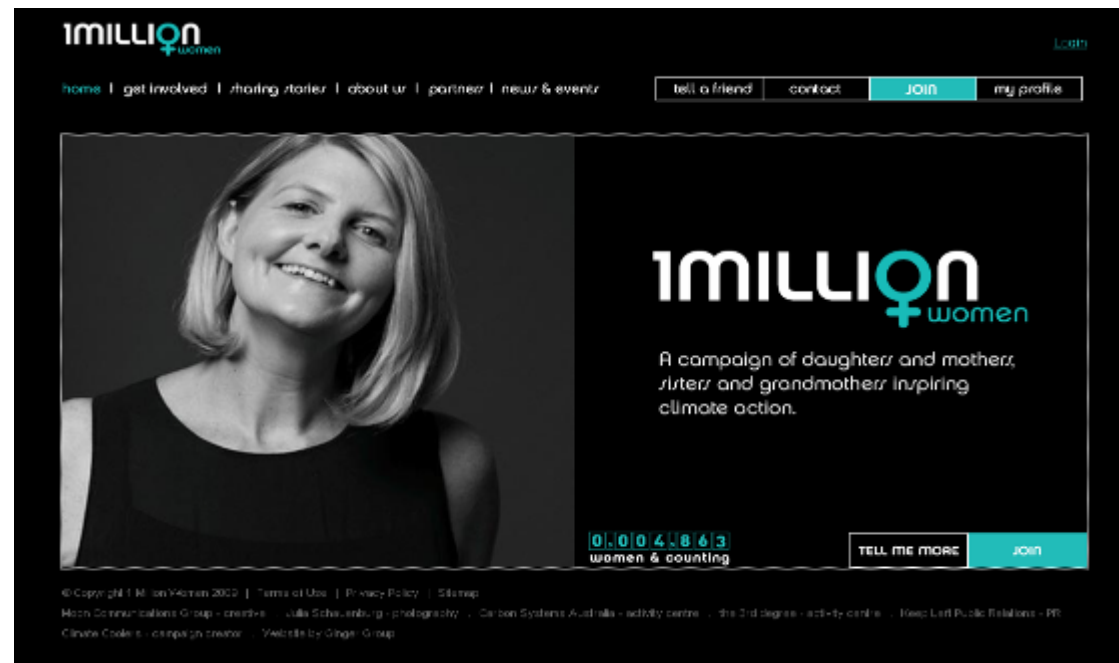
Efficient Purchases

- Use Energy and Water Efficiency labels
- Save in Life Cycle Costs
- Use a ClimateSmart Retailer
 - The Good Guys**
 - RetraVision**
 - RT Edwards**
- Use the Buyer Guides





- **1 million Australian women to cut 1 tonne of CO₂ in a year = 250,000 cars**
- Women account for 70% of household consumer decisions
- Queensland to account for ¼ of target ?



- www.1millionwomen.com.au

Workplace Top 10 Tips

- No Cost and Low Cost Tips, including:
 - Plan
 - Energy
 - Water
 - Waste
 - Transport
 - Measures
 - Support
 - Network
- www.climatesmart.qld.gov.au



The poster is titled "ClimateSmart Business" and "top 10 workplace tips". It is described as "A CARBON CUTTING, COST SAVING SURVIVAL GUIDE FOR BUSINESS". The tips are numbered 1 through 10, each with a brief description and a list of specific actions. The poster also includes contact information for the Environmental Protection Agency and the Queensland Government.

ClimateSmart Business

top 10 workplace tips

A CARBON CUTTING, COST SAVING SURVIVAL GUIDE FOR BUSINESS

- 1 Develop a plan**
 - Plan to reduce, re-use and recycle
 - Get everyone in the company involved
 - Set targets and rewards for achievement
- 2 Reduce energy**
 - Turn off computers at the end of the working day
 - Turn off power to lights and equipment when not in use
 - Turn off screensavers and install stand by (sleep mode) on computer monitors
 - Install energy efficient fluorescent bulbs
- 3 Save water**
 - Fix leaking taps or pipes
 - Install flow restrictors on taps
 - Review and adapt cleaning methods to conserve water
- 4 Reduce waste**
 - Re-use or recycle waste paper, cardboard or packaging
 - Sell your excess waste to companies who want it
 - Buy remanufactured printer cartridges and recycle used cartridges
 - Use mugs, glasses and cutlery instead of plastic, paper or styrofoam
- 5 Adjust air conditioning**
 - Use natural ventilation and fans wherever possible
 - Close all windows and doors when air conditioning is on
 - Switch off heating and cooling after hours
 - Set air conditioning systems between 24°C–28°C in summer
- 6 Cut down on transport**
 - Source goods and services locally
 - Use public transport or car pooling
 - Form workplace cycling or walking groups
 - Use phone/video conferencing
 - Co-ordinate company despatch/receipt procedures
- 7 Monitor your progress**
 - Track progress against agreed targets
 - Measure and evaluate results on a regular basis
 - Modify or expand the program to meet new targets
- 8 Seek up-to-date information**
 - Get up-to-date information from government departments
 - Environmental Protection Agency www.epa.qld.gov.au
 - Office of Climate Change www.climatechange.qld.gov.au
 - Check local council information and services
 - Use industry associations for industry specific information
- 9 Get assistance to get started**
 - Participate in business partnership programs
 - EPA ecobiz www.epa.qld.gov.au/ecobiz
 - Greenhouse Challenge Plus www.greenhouse.gov.au/challenge
- 10 Network to connect with suppliers and services**
 - Find local recycling companies and services
 - Establish a business leaders forum
 - Attend environmentally focussed business forums
 - QWESTNet www.epa.qld.gov.au/qwestnet

www.climatesmart.qld.gov.au

Toward 2
Queensland Government
Environmental Protection Agency

Business Carbon Guide

- Plain English
- Basic information for SMEs
- Links to support programs
- Download from
www.climatesmart.qld.gov.au



ecoBiz Program

- Free Eco-efficiency Program
- Free Toolbox
- Small Business Edition
- Small Business Guides
- Free Training
- Facilitators
- Recognition
- Partner discounts on Licensing

ecoBiz
Queensland

Eco-efficiency
for Small Business

Fact sheet
Cafe

Cafe

ecoBiz is the Environmental Protection Agency's signature partnership program with Queensland business and industry. ecoBiz can help your business to achieve cost savings and take advantage of the profitability of improved environmental performance. This fact sheet will broaden your environmental awareness as well as provide you with money-saving eco-efficiency tips that you can implement in your cafe.

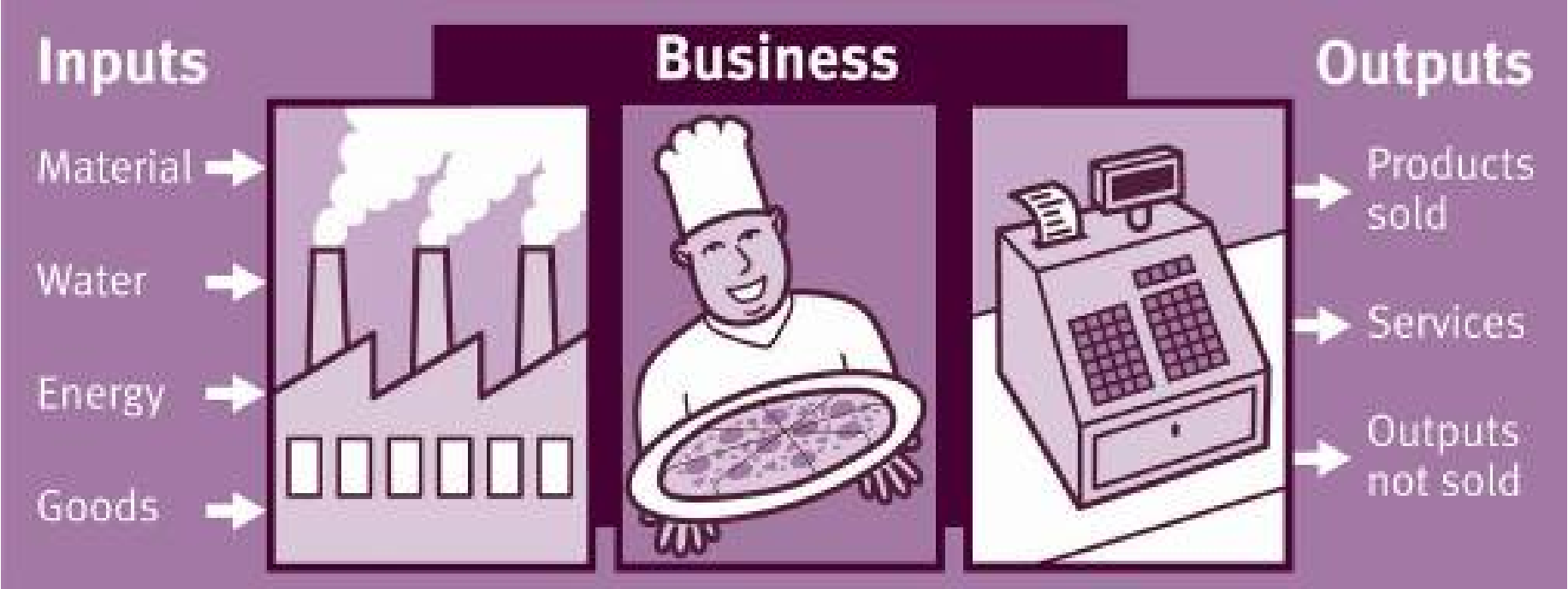
We encourage you to discuss the environmental and economic benefits of the proposed eco-efficiency changes with your staff to generate enthusiasm for the program.

Consider setting up an in-house team to identify opportunities and discuss the way ahead. Staff that are engaged and motivated will be an invaluable source of ideas for improvements that could be made in your cafe.

Train your staff on the aims of the ecoBiz program and how they can tell your customers about sustainability. Find a 'champion' to place signs around the cafe to inform staff and customers of the eco-efficient changes you have made. Let your customers know what you are doing to improve the environment.

Queensland Government
Environmental Protection Agency

ecoBiz Program



QWESTnet

Connecting Queensland businesses with sustainable technologies

- Technologies
- Information
- Case Studies
- Exhibitors
- Networking



Department of **Environment and Resource Management**
Conserving and managing Queensland's environment and natural resources

GOING GREEN EXPO

...the only choice for a sustainable future is green.

Showcase for businesses & households
latest products, technologies, solutions, keynote presentations

Brisbane RNA Showgrounds

Friday 18 – Sunday 20 September 2009

Exhibitor opportunities are available.

www.goinggreenexpo.com.au

www.climatesmart.qld.gov.au



Act Now !!!

- **Householders**
 - Join the Low Carbon Diet
 - Book a Home Service
 - Sign up for a Solar Hot Water System
- **Community Groups – Low Carbon Diet (and Funding)**
- **Women - Join 1 Million Women Campaign**
- **Businesses – Join ecoBiz**

www.climatesmart.qld.gov.au