

COUNTING CARBON



- High level outcomes
- Lessons learnt
- Goal for future development

Presented by: Shelly Fuller



What the project is..

Providing a platform for **knowledge sharing**, training and a **carbon calculator tool** for the industry to measure and catalyse a shift towards **energy efficiency** and sustainable resource management.



Proactive & positive response to the pressures:
Increasing inputs costs (energy) & retailer demands



Who the project is...



for the industry by the industry



The structure...

Managed & implemented by



Guided by the Steering Committee

- Representing the various industry associations
- Funders
- External experts
- Project team

Meet once a Quarter

-progress & planning



Timeframes of the project



Phase 1 initiated in 2008 to 2011

Driven by the need to better understand CC impacts at an industry & individual level
50% funded by DFID (UK development fund) & 50% industry bodies

Phase 2 runs from 2012 - 2014

80% industry bodies funding, 20% local Department of Agriculture
Main goal to improve uptake of the tool, data integrity and industry benchmark figures

Phase 3 will run from 2014 – 2016

Maintenance supported by Phase 2 funders
Focus on development, expansion, intergration – external funding dependant

The backbone of the project is:

The website information platform & the freely available online carbon calculator tool – industry standard
The support of the expert team to assist the industry with technical queries
The continued feedback from the industry users which enhances the user-ability of the tool



The Resources:

www.climatefruitandwine.co.za

The screenshot shows the website's interface. At the top right, there is a login form with fields for "Email/Username:" (containing "shelly@climatefruitandwine.co.za") and "Password:" (containing "*****"), and a "Login" button. Above the form are links for "Register" and "Forgot your password?". Below the form is a large banner image of a vineyard with mountains in the background. On the left side of the banner is the logo for "CONFRONTING CLIMATE CHANGE A SOUTH AFRICAN FRUIT & WINE INITIATIVE". Below the banner is a green navigation bar with links: HOME | NEWS | ABOUT US | THE BASICS | THE CALCULATOR | THE PROTOCOL | FUNDING PARTNERS | RESOURCES.

The main content area is titled "WELCOME" and features three tabs: "What?", "Why?", and "How?". Below the tabs is a process flow diagram with four steps: "REGISTER ONLINE" (laptop icon), "TRAINING WORKSHOP" (person at screen icon), "ONLINE DATA CAPTURE" (laptop with data icon), and "CARBON FOOTPRINT REPORT" (document icon). To the right of the diagram is a grey box with the text: "Thanks to continued support from the industry bodies, the project is now in Phase 2. We look forward to working together with you during the process!".

Below the diagram are two red-bordered boxes. The first contains a "NEWSFLASH!" about a newly updated carbon calculator tool. The second contains a link to a "2012 Carbon calculator training workshop schedule".

At the bottom left, there is a "Welcome to the South African Fruit and Wine Industry Initiative project website." message, followed by a paragraph explaining that climate change is predicted to directly impact South Africa's mean annual temperature and rainfall ranges, influencing pest and disease distributions, flowering and fruiting seasons, and ground water resources.

At the bottom right, there is a blue-bordered box titled "FAQs of Climate Change in a fun and interactive tool" with a colorful graphic of interconnected nodes.

Information Portal
Communication
FREE C-footprint tool

The foundation of the CCC tool...

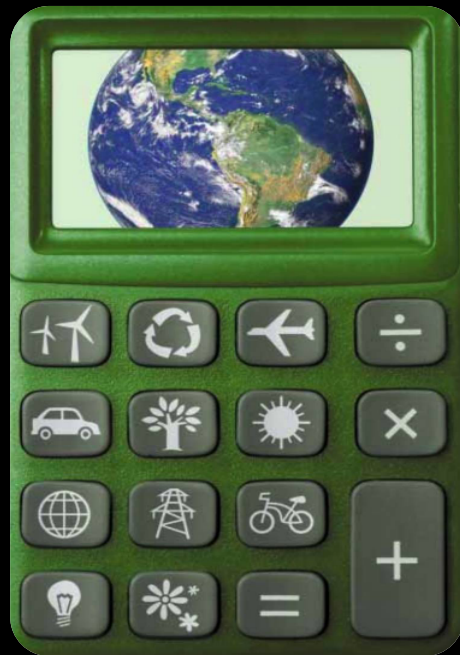
Sound methodology: based on the PAS2050-1:2012
Expertly reviewed & annually updated to maintain
relevancy & alignment with best practice.

The aim:

- To have an easy-to-use but scientifically robust tool that the industry can use to measure & monitor energy inputs & efficiency progress made over time.
- To have accurate representative data to feed in to industry benchmark analysis.
- To develop a sustainable development pathway for the SA fruit and wine industry



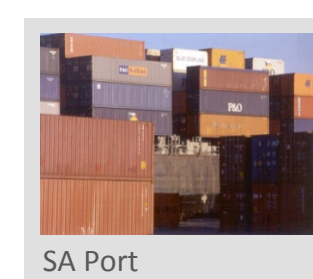
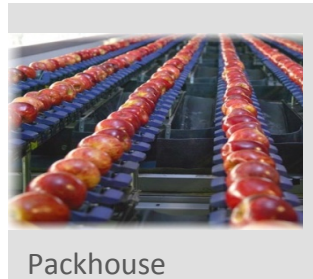
The foundation of the CCC tool...



It's NOT about the numbers!
It's about the process &
ACTION taken to reduce

What makes it unique...

The ACCURATE full view of the supply chain



- The ability to use ONE TOOL to get accurate results per section of the supply chain.
- Results from each section of the chain can be added together to build the full picture.
- This process encourages collaboration within the industry & supply chain
- Utilizing the existing 4 years of industry awareness, support & technical training



start

Read guidance document

Select Boundaries for Business Unit



- Farm
- Packhouse
- Coldstore
- CA Storage
- Winery
- Distribution

Use data collection sheets

Speak to relevant staff to source accurate data

Complete data collection sheets for all relevant boundaries

Enter data on Data Collection Tool

- ✓ Fertilizer & Agrochemical
- ✓ Land use change
- ✓ Electricity
- ✓ Company (Direct) fuel,
- ✓ Contractor (Indirect) fuel
- ✓ Packaging
- ✓ Refrigerant leakage
- ✓ Waste water treatment
- ✓ Road freight
- ✓ Rail freight
- ✓ Sea freight
- ✓ Air freight

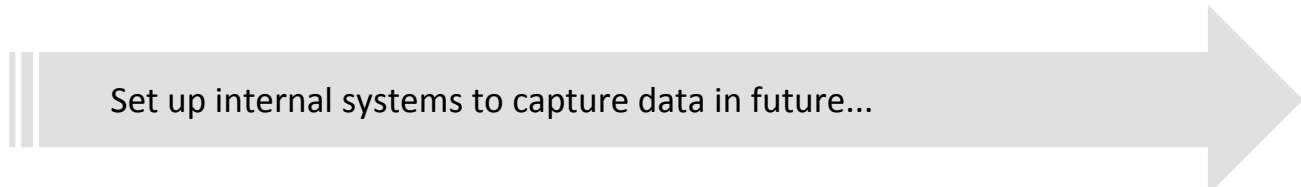
Carbon footprint Report

Highlighting areas for improved efficiency

Prioritize changes with high impact

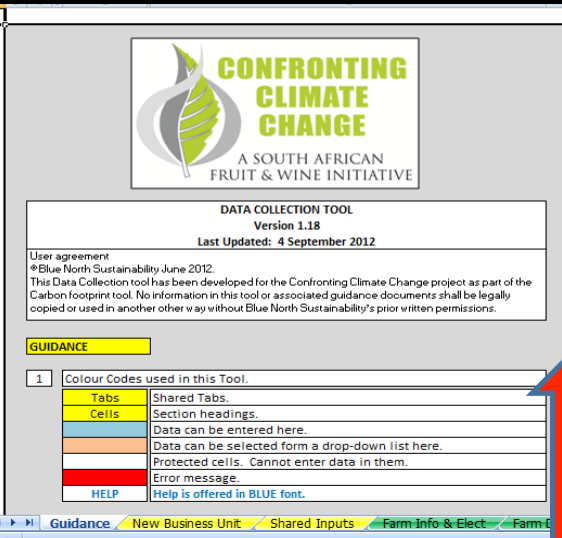
end

Lower C emissions = cost savings



What makes up the tool...

Use resources to gather data



CONFRONTING CLIMATE CHANGE
A SOUTH AFRICAN FRUIT & WINE INITIATIVE

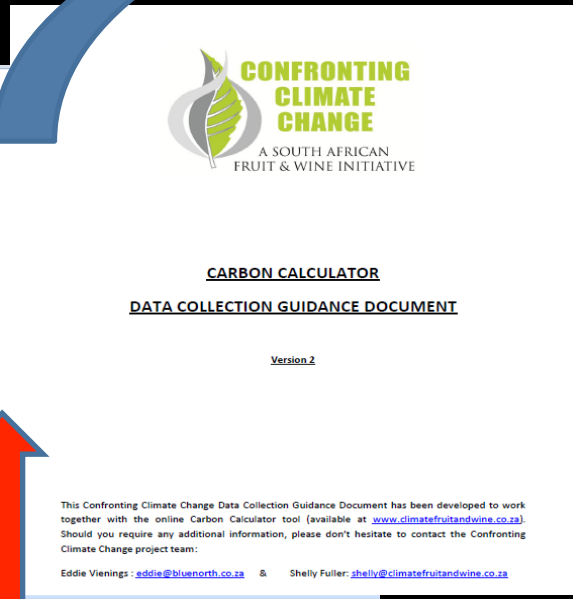
DATA COLLECTION TOOL
Version 1.18
Last Updated: 4 September 2012

User agreement
© Blue North Sustainability June 2012.
This Data Collection tool has been developed for the Confronting Climate Change project as part of the Carbon footprint tool. No information in this tool or associated guidance documents shall be legally copied or used in another other way without Blue North Sustainability's prior written permissions.

GUIDANCE

1	Colour Codes used in this Tool.
Yellow	Shared Tabs.
Orange	Section headings.
White	Data can be entered here.
Light Blue	Data can be selected from a drop-down list here.
Light Green	Protected cells. Cannot enter data in them.
Red	Error message.
Blue	Help is offered in BLUE font.

Navigation: Guidance | New Business Unit | Shared Inputs | Farm Info & Elect | Farm



CONFRONTING CLIMATE CHANGE
A SOUTH AFRICAN FRUIT & WINE INITIATIVE

CARBON CALCULATOR
DATA COLLECTION GUIDANCE DOCUMENT

Version 2

This Confronting Climate Change Data Collection Guidance Document has been developed to work together with the online Carbon Calculator tool (available at www.climatefruitandwine.co.za). Should you require any additional information, please don't hesitate to contact the Confronting Climate Change project team:

Eddie Vienings: eddie@bluenorth.co.za & Shelly Fuller: shelly@climatefruitandwine.co.za

Attend free training workshop



Enter data online or import Excel sheet



Email/Username: shelly@climatefruitandwine.co.za
Password: *****

CONFRONTING CLIMATE CHANGE
A SOUTH AFRICAN FRUIT & WINE INITIATIVE

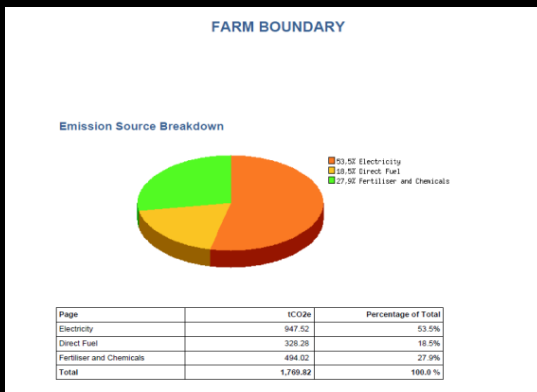
HOME | NEWS | THE BASICS | THE CALCULATOR | THE PROTOCOL | FUNDING PARTNERS | RESOURCES

WELCOME

What? Why? How?

Thanks to continued support from the industry bodies, the project is now in **Phase 2**. We look forward to working together with you during the process!

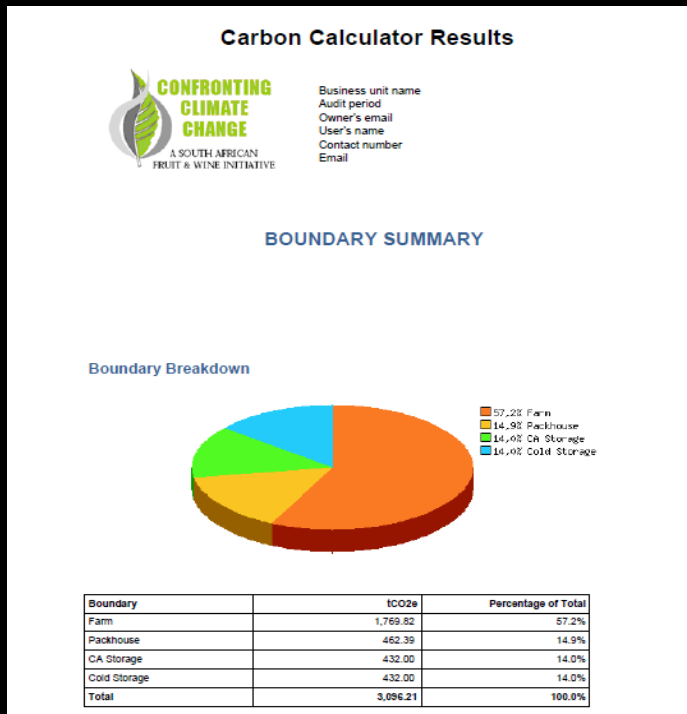
Monitor year-on-year to measure progress.



Carbon footprint results
Indicate where improve energy efficiencies will have greatest impact.

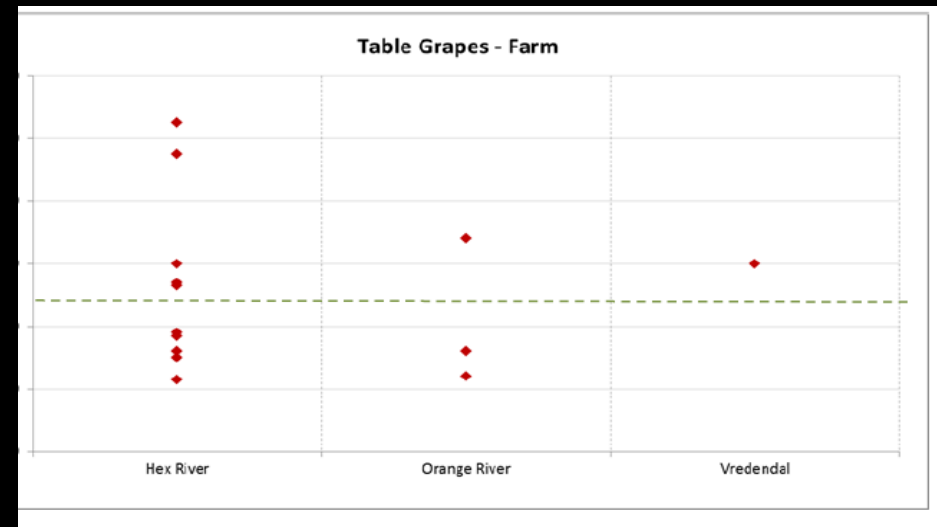
What are the outputs...

Individual



Carbon footprint report
Baseline – starting point
Highlighting energy/carbon intensive activities where reduction strategies will have most impact

Industry



Regional benchmark results

Showcase industry trends & highlight best practice
Encourages collaboration within industry to share lessons learnt & reduce where possible
Based on accurate & scientifically sound data

Whose using it so far...

Benchmark database since February 2012...

287 completed PAS 2050-1 product carbon footprints across the South African fruit and wine industries. *This is made up of...*

220 completed & approved carbon footprint results in the CCC database &

67 newly complete datasets awaiting final review. *Resulting from....*

30 Technical training & data gathering workshops hosted with **10** more in the pipeline.

201 Industry members trained to use the CCC carbon footprint tool independently

64 Selected Industry “Trainers” trained & able to assist growers.



LESSONS LEARNT

Voluntary process – timing is key

Intergrate with existing programmes

- Auditing fatigue

The power of buy in through all levels

- Exporters

Speaking to the right person

- Buy in & data

Data quality – support vital



LESSONS LEARNT

Understanding the numbers

- What does it mean ?
- benchmark adds value but take scale to be credible

Continous communication

- Telling the success stories
- “what now”?
- making it TANGIBLE

The Value of Collaboration for effective change



WHERE TO FROM HERE?

Phase 3 – Maintenance

- workshops, building database, skills transfer

Phase 3 – Development (external funding)

- Scale up : all agric crops
- : beyond carbon
- : sustainability M&I
- : sit within a unified body

Watch this space!!



THANK YOU FOR YOUR TIME & THE
OPPORTUNITY TO SHARE.

WE WELCOME FEEDBACK.



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www.climatefruitandwine.co.za