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LEAF

| Volume 3

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FIRSTLY

THANK YOU

FOR READING!

Welcome to the third edition of Leaf – the CPI UK newsletter showing the steps we are taking in our journey to becoming an even more sustainable print provider. Since our last edition climate change has certainly been in the headlines around the world:

4th April 2022 United Nations

A new flagship UN report on climate change out Monday indicating that harmful carbon emissions from 2010-2019 have never been higher in human history, is proof that the world is on a “fast track” to disaster, António Guterres has warned, with scientists arguing that it’s ‘now or never’ to limit global warming to 1.5 degrees.

9th May 2022 World Meteorological Organization

There is a 50:50 chance of the annual average global temperature temporarily reaching 1.5 °C above the pre-industrial level for at least one of the next five years.

28th June 2022 Reuters

Extreme weather events – from scorching heatwaves to unusually heavy downpours – have caused widespread upheaval across the globe this year, with thousands of people killed and millions more displaced.

Much of this, scientists say, is what’s expected from climate change.

25th August 2022 Sky News

The record-breaking heatwave that scorched swathes of Europe in recent months will become an “average” summer as soon as 2035, even if countries stick to their current climate targets, new research suggests.

The recent record-breaking temperatures will certainly bring a focus for COP27 which is taking place in Sharm El-Sheikh, Egypt on 6th – 18th November 2022. With the latest science showing that climate change is moving much faster than we are and is pushing ecosystems and communities to their limits. The focus will be for climate solutions to be implemented faster across all sectors and also to scale up how we adapt to a warming world.

In this edition of Leaf we are sharing our Carbon emissions for Scopes 1 and 2 which incorporates a full year of us purchasing certified renewable energy. It also shows the hardwork that all of the sites have done and continue to do as we focus on reducing our impact.



Lisa Faratro

Director of Environment
&
Sustainability



A PASSION

FOR PRINTING

SINCE 1833

OUR JOURNEY

... SO FAR

Since volume 2 of Leaf we have produced over 70 million books in the UK with the numbers increasing as the UK book industry reports strong sales during the Pandemic.

At CPI we have been busy in our compliance areas and look forward to returning to business as usual this year with more onsite audits.

Audits:

Sept 21 - FSC Surveillance Audit CPI Books

November 21 – FSC re-certification audit – CPI Antony Rowe

April 22 – Quality and Environment ISO surveillance audits

June 22 – FSC Transfer audit William Clowes

William Clowes FSC certificate has been transferred onto Antony Rowe's multi-site certification so now just 2 FSC certificates held by CPI in the UK.

As part of our commitment to the publishing and printing industries we are members of the below trade organisations.



CARBON EMISSIONS

One of the key measures for our impact on the world around us is our carbon footprint. At CPI we are focusing on carbon dioxide emissions (CO₂). Naturally, CO₂ releases into the atmosphere in many ways, the largest being the exchange between the oceans and the atmosphere as well as animals and plants emitting CO₂ through respiration. Human activity has increased the world's CO₂ emissions particularly post industrialisation through burning fossil fuels and expanding agriculture by removing forests. CO₂ is one of the greenhouse gases that absorbs radiation and prevents heat from escaping, this excess heat creates disrupted weather patterns which, to name a few of the effects, means extreme weather conditions, food supply disruptions and increased wildfires. As a first step to help reduce emissions, companies and individuals should measure their CO₂ emissions, once we know our impact we can take steps towards the reductions needed to keep global warming below the 2 degree target.

How do we measure?

There are 3 categories that require measurement, currently CPI are reporting on the first 2:

Scope 1 and *2* are those emissions that are either owned or controlled by companies / individuals.

Scope 3 emissions are a consequence of the activities of a company/individual but occur from sources that are not owned or controlled by it/them.

CARBON EMISSIONS

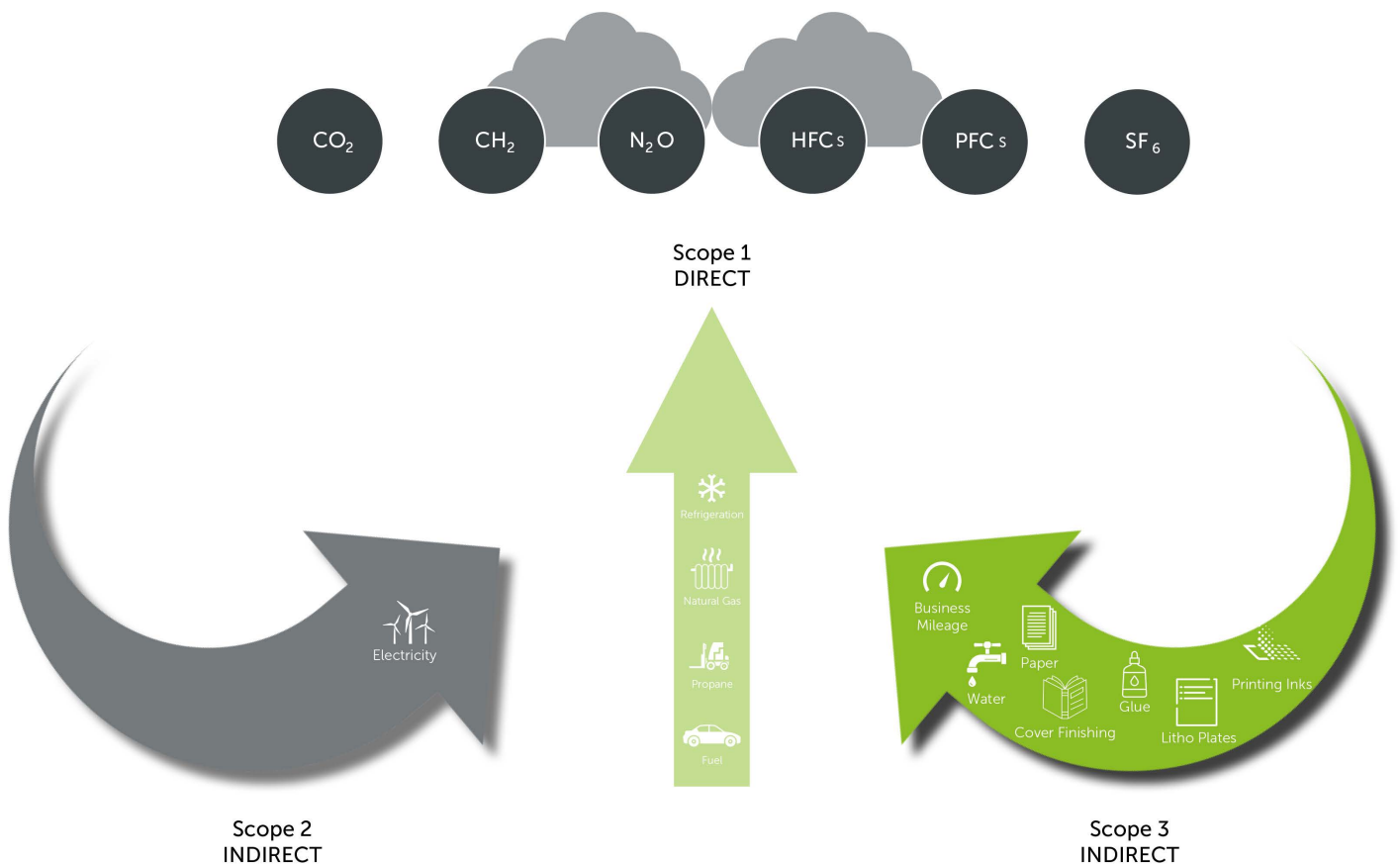
Below shows the elements that are included in our Scope 1 and 2 as well as the elements that we will be covering in our Scope 3 measurements.

Scope 1

- Natural gas consumption (heating/heat set printing/hot water)
- Refrigeration (air-conditioning / chillers for presses and laminators)
- Propane use (forklift trucks)
- Company car fuel

Scope 2

- Electricity consumed from the grid (100% renewable)



CARBON EMISSIONS

In facts and figures

CPI SCOPE 1 AND 2 EMISSIONS FINANCIAL YEAR 22

I am pleased to confirm a further reduction in our FY22 emissions (April 21-March 22).

Our carbon emission reduction is **5.3%** (location based) or when taking into account our full year of renewable energy **74.4%** (market based).

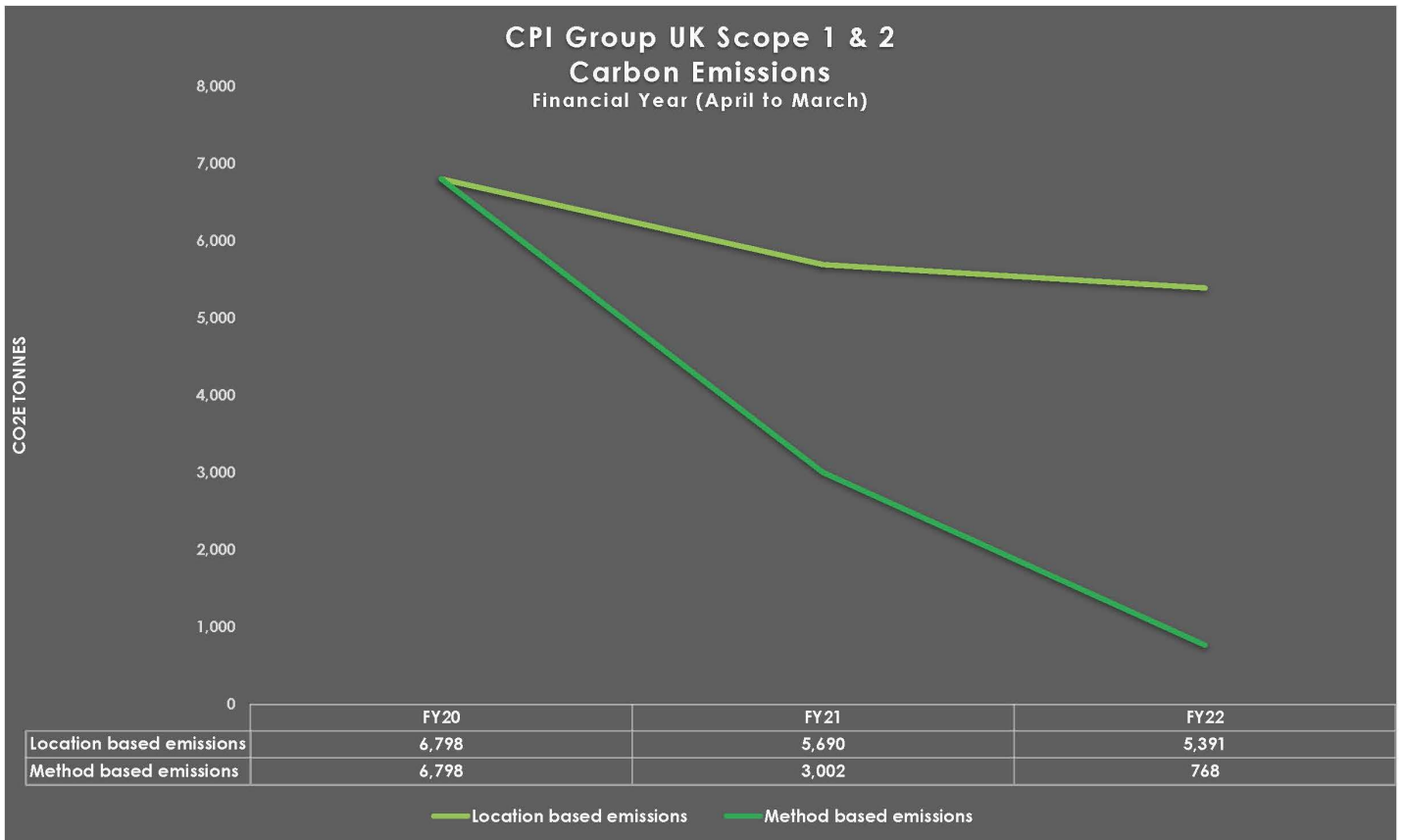
Although our total energy use increased during the year by **2.5%** this was due to a significant increase in tonnage / volume of **20.87%**.

Our completed projects for FY22 were:

- Full year of renewable electricity
- Heating controls – gas reduction
- Valve and pipe insulation – gas reduction
- LED lighting further roll out
- Company car scheme move to fully hybrid / electric car fleet.

	CURRENT REPORTING YEAR	COMPARISON REPORTING YEAR	% CHANGE
	1/4/21 - 31/3/22 UK and offshore [mandatory]	1/4/20 - 31/3/21 UK and offshore [mandatory]	
*Emissions from activities for which the company own or control including combustion of fuel & operation of facilities (Scope 1)/ tCO ₂ e	768	766	0.4%
Emissions from purchase of electricity, heat, steam and cooling purchased for own use (Scope 2, location- based)/ tCO ₂ e	4,622.7	4,925	-5.3%
Total gross Scope 1 & Scope 2 emissions (location- based)/ tCO ₂ e	5,391	5,691	-5.3%
Energy consumption used to calculate above emissions: kWh [mandatory]	25,695,613	25,067,485	2.5%
Production (tonnes of paper throughout)	62,088	51,365	20.87%
Intensity ratio: kgCO ₂ e (gross Scope 1 + 2) / tonnes of paper throughput	86.84	110.79	-21.61%

CPI SCOPE 1 & 2 EMISSIONS FY22



Looking forward into this financial year, the key initiatives we are working on to continue reducing our impact are:

- Waste reduction
- Scope 3 emissions data
- Supplier onboarding in to our new database to incorporate environmental targets and help identify potential joint projects.
- Preparation for ESOS third compliance reporting

PLASTIC

April 2022 has seen the introduction of PPT (plastic packaging tax) in the UK, as CPI does not manufacture packaging materials or import plastic packaging materials it is not necessary to register for PPT. However as part of our commitment to sustainability we have trialled and moved our shrinkwrap from 100% virgin material to a material that contains 30% post-consumer waste. The positive news is that by working closely with our suppliers we haven't needed to increase the weight of our shrinkwrap at any of our sites.

Our suppliers are working on increasing the recycled material within their product whilst maintaining the tensile strength and we will update you as and when any further trials take place.



CPI UK TARGETS

With our environmental certification we have set targets that we update annually – below are our targets for FY22 along with the related outcomes:

- Reduce energy consumption/carbon footprint through increasing m2 through the presses by 5% per kwh of electricity consumed – achieved 13.04% improvement.
- Waste management - further segregation of waste being trialled FY23 for food and mixed dry recycling, this is to reduce our tonnage of general waste across the business (400 tonnes FY22)
- Reduce VOC levels – FY23 reporting for VOC levels with a review of new / alternative products.

NEWS

Alternative pulp – CPI trialling alternative pulp based paper (sugar beet) Oct / Nov 22

Vegetable oil based coldset ink – CPI Books trialling coldset vegetable based inks Nov / Dec 22

Heatset ink with zero heat requirement – CPI William Clowes trialling new ink formulation which will reduce gas consumption as there is no requirement for heat to dry the ink. Oct/Nov 22

Cellulose lamination – CPI Books trialling Cellulose lamination (non plastic)



NEXT EDITION



For the next edition of Leaf we will update you on:

- Progress with CPI UK Scope 3
- Ongoing reduction reporting for carbon emissions
- Material trials for more sustainable products

We hope you have found this edition of Leaf informative. We would love to receive feedback from you to ensure we are covering all of the subjects you are interested in. By working together, ensuring we understand your goals and targets, we can all travel faster along the road to a more sustainable future.

If there are any topics you would like us to cover in future editions of Leaf please do let us know.

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SIMPLE FACTS ABOUT US

**130
Million**



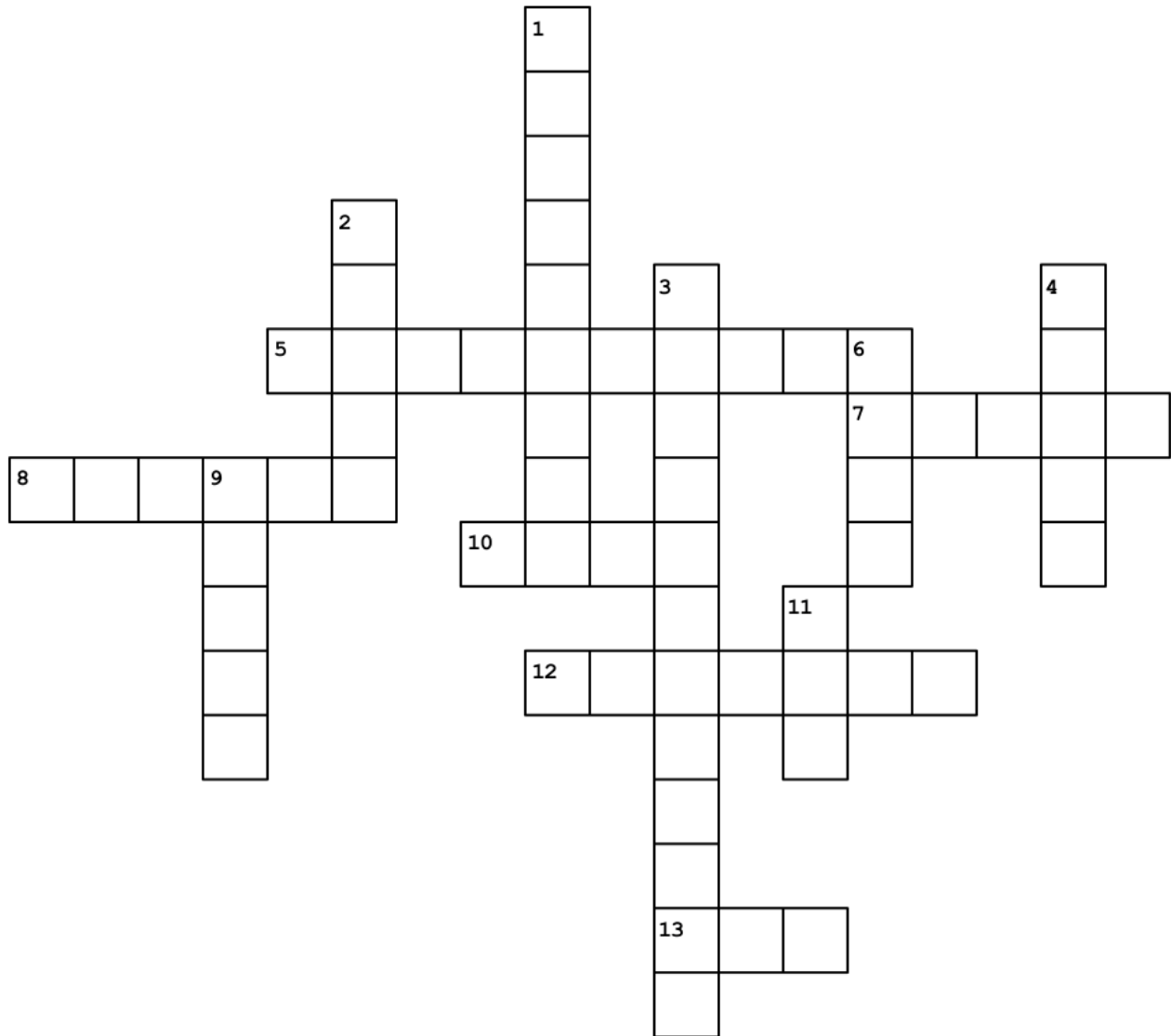
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FSC



LITTLE GREEN QUIZ



ACROSS

- 5. Type of paper
- 7. Country hosting COP 27
- 8. Measure of emissions for Scopes 1, 2 & 3
- 10. Target for emissions for 2050
- 12. Country that CPI have 3 factories in within the EU
- 13. Acronym for an environmental and quality standard that CPI holds

DOWN

- 1. Electricity that CPI purchases
- 2. CPI's brand colour
- 3. Type of printing using aluminum plates
- 4. Material manufactured from the pulp of trees
- 6. Name of this newsletter
- 9. CPI UK produces over 130 million of these each year.
- 11. CPI's energy source for heating



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SUSTAINABLE
_____ PRINTING

CPI

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