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DyStar 

# CARBON FOOTPRINT REPORT 2010

*Sustainability is our responsibility*





## Foreword

Dear Readers,

Sustainability and environmental responsibility have always been core values at DyStar. Developing environmentally aware manufacturing as well as products and services that reduce our customer's environmental impact has been one of our key strengths for many years. Our customers, brands & retailers are also increasingly expecting us to set new benchmarks for ourselves in sustainability including how we manage our carbon emissions and water usage throughout the textile value chain.

Building further on our environmental stewardship, we have initiated a broader company-wide sustainability programme and embarked on the journey of measuring & managing sustainability in our day to day operations and business processes. We have made a start by measuring our air, water and waste emissions across the DyStar Group and we will strive to achieve significant reductions in our emissions in the coming years. We believe that our commitment to sustainability is intrinsically linked to the profitable growth of the company.

It is now widely accepted that companies that are sustainably managed with care towards environment are more likely to be successful in the longer term. Together with our shareholders we are taking the challenge to build a sustainable business. DyStar has a strong base on which to build with our history of quality excellence, ecology and environmental awareness, all driven by dedicated professionals.

We are today taking the first few steps on the journey towards sustainability. We believe that along the way our commitment to this process will have a positive influence on our operations and activities. Our focus will be on managing our use of energy, other resources and raw materials efficiently, and ensuring that environmental protection is a corporate priority. Our customers will have confidence in working with DyStar as a strategic partner helping them to achieve their own sustainability and business objectives.

This is the first 'Carbon Report' by the DyStar Group. It is a key component of what will become our first 'Sustainability Report' according to GRI principles which is due to be published by the 4th quarter of 2011. In the years ahead, we will work to reduce our environmental impact and give opportunity for our customers around the world to also reduce their environmental impact through use of best available technology.

A handwritten signature in black ink that reads "Steve Barron". The signature is fluid and cursive, with a period at the end.

**Steve Barron**  
Chief Executive Officer



# DyStar Group Carbon Footprint Report

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This report is for the reporting year of 1st January 2010 to 31st Dec 2010.

DyStar undertook an extensive, company-wide global exercise to identify the main sources of greenhouse gas emissions using activity data for 2010. The study calculated DyStar Group's global carbon footprint at 164,035 tonnes of CO<sub>2</sub>e. The study helped the company produce its first carbon footprint report this year.

The report is based on the Greenhouse Gas Protocol (GHG Protocol), a global reporting framework jointly developed by the World Resource Institute and the World Business Council for Sustainable Development.

Emissions data in this report has been collected from DyStar production sites, laboratories, and offices worldwide including our headquarters in Singapore.

We intend to continue collecting relevant data across the company to be able to annually report our greenhouse gas emissions. One of the key aims of tracking our carbon emissions is to identify opportunities, and act on them, to reduce emissions by deploying reduction strategies in line with our unequivocal commitment to sustainability.

Our carbon emissions can be mainly attributed to the use of purchased electricity and steam, natural gas, CNG, LPG, diesel and petrol.

Most of our direct emissions (scope 1 emissions) come from emission sources at DyStar production facilities. Our indirect emissions (scope 2 emissions) are based on purchased electricity and steam. Production facilities account for 97% of the total emissions.

Key emissions figures are presented in the following tables:



## Summary for the year ended 31st December 2010

### Overall summary of emissions

**Table 1 - Emissions Summary**

Emission Sources	2010	<i>CO<sub>2</sub>e tonnes</i>
		%
Scope 1	33,762	21%
Scope 2	130,273	79%
<b>Total emissions</b>	<b>164,035</b>	<b>100%</b>

### Summary of emissions from production and non-production activities

**Table 2 - Break up of emission**

Emission Sources	2010	<i>CO<sub>2</sub>e tonnes</i>
		%
Total emissions from production sites	158,477	97%
Total emissions from office and laboratories	5,558	3%
<b>Total emissions</b>	<b>164,035</b>	<b>100%</b>



## CO<sub>2</sub>e emissions intensity

Carbon intensity is a measure of carbon usage by a company in relation to business performance during the same year.

Based on the emissions and production figures and sales turnover during the same period, we calculated carbon intensity of our operations.

Carbon emissions intensity figures are presented in Table 3.

### CO<sub>2</sub>e emissions intensity per tonne of production and per €million turnover

**Table 3 – CO<sub>2</sub>e emissions intensity statement**

tCO <sub>2</sub> e per tonne of production	1.69
tCO <sub>2</sub> e per €million turnover	296

## Notes

### 1. Greenhouse gases

All greenhouse gas (GHG) emissions figures are in tonnes of carbon dioxide equivalents (CO<sub>2</sub>e) and include all six greenhouse gases covered by the Kyoto protocol – carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), perfluorocarbons (PFCs), hydrofluorocarbons (HFCs), and sulphur hexafluoride (SF<sub>6</sub>) emissions.

2. In view of gathering consistent and reliable data for previous years owing to several changes in the organization in recent years, 2010 has been determined to be our base year for reporting GHG emissions.

### 3. Reporting Principles

Our carbon footprint report is based on the below-mentioned Reporting Principles advocated by the GHG Protocol Initiative. The GHG accounting and reporting shall be based on the following principles:

- **Relevance:** Ensure the GHG inventory appropriately reflects the GHG emissions of the company and serves the decision-making needs of users — both internal and external to the company.
- **Completeness:** Account for and report all GHG emissions sources and activities within the chosen inventory boundary. Disclose and justify any specific exclusions.
- **Consistency:** Use consistent methodologies to allow meaningful comparison of emissions over time. Transparently document any changes to the data, inventory boundary, methods, or any other relevant factors in the time series.
- **Transparency:** Address all relevant issues in a factual and coherent manner, based on a clear audit trail. Disclose any relevant assumptions and make appropriate references to the accounting and calculation methodologies and data sources used.

- **Accuracy:** Ensure that the quantification of GHG emissions is systematically neither over nor under true emissions, as far as can be judged, and that uncertainties are reduced as far as practicable. Achieve sufficient accuracy to enable users to make decisions with reasonable assurance as to the integrity of the reported information. (Source: GHG Protocol)

#### 4. Organisational boundary

GHG Protocol allows a company to define the organisational boundaries for carbon reporting according to definitions of 'equity share', 'financial control' or 'operational control'.

To give the most representative footprint, DyStar group defines its organizational boundaries using the operational control approach as defined in the GHG Protocol. The emissions of all operations over which the company has operational control and all owned and leased facilities and vehicles that the company occupies or operates, are included in the report. Emissions are based on measurements or on estimations or extrapolations where no measured data is available.

We have reported on the emissions associated with energy that we buy or generate worldwide.

We have not reported for offices with less than 20 employees as emissions from these offices is estimated to be insignificant while data gathering would have required significant administrative and financial resources.

#### 5. Operational boundary

Our report this year includes direct emissions under scope 1 and indirect emissions under scope 2.

Direct emissions under scope 1 include:

- Emissions from combustion of fuel in stationary sources
- Emissions from combustion of fuel in company-owned mobile combustion sources

Indirect emissions under scope 2 include:

- All purchased electricity, heat and steam at grid average carbon intensity

#### 6. Geographic scope

CO<sub>2</sub>e emissions that fall within the organisational and operational boundaries have been reported for all worldwide operations.

#### 7. Conversion factors

As electricity fuel mix and associated carbon intensity differs from one country to another we have used the Greenhouse Gas Protocol and International Energy Agency (IEA) conversion factors. National or plant specific emissions factors have been used wherever available.

For fuel use, we have used the most recent conversion factors published by the UK Department for Environment Food and Rural Affairs.



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*Sustainability is our responsibility.* At DyStar, our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and ecological specifications.



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