



# Duropal Environmental Policy

## Bench Top City Pty Ltd

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## Overview

1. Mission statement
2. Wood
3. Power Plant
4. Certifications
5. Miscellaneous

## 1. Mission statement



**DUROPAL**

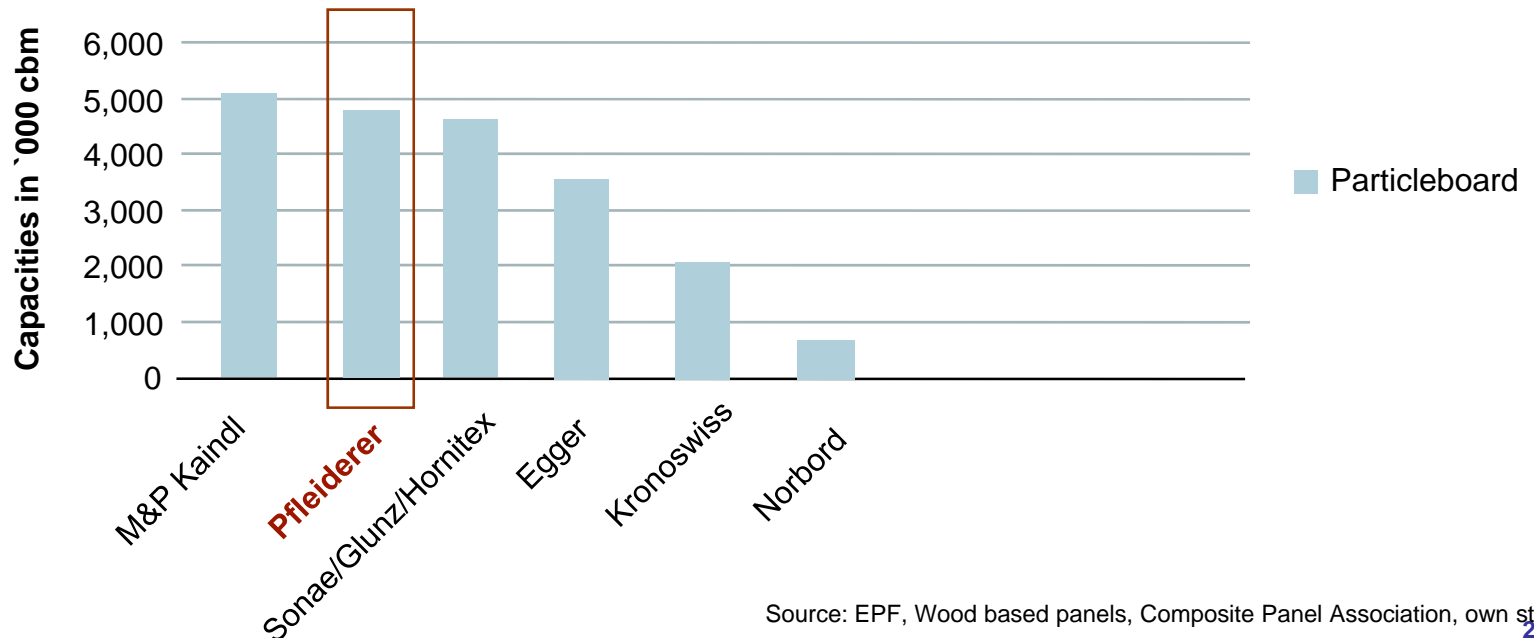
**PFLEIDERER**  
INDUSTRIE

**wodego**

Zentraler Export / Central Export  
BC West

Above and beyond economic success, we feel an obligation towards treating people, the environment, and resources with respect.

In the wood industry environmental commitment is especially important. As one of the biggest players in the industry, it is self-understood that we greatly commit to the environment.



## 2. Wood



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- In Germany there are 11.100.000 hectares of forest
- Approx. 30 % of the Germany's total area is covered with forests.
- Ratio: coniferous woods/deciduous trees = 60% / 40 %.
- The two main coniferous species are the common spruce (28 % of all tree species) and the pine tree (23 % of all tree species)
- The two main deciduous trees are the beech (15 % of all tree species) and oak (10 % of all tree species)

## 2. Wood



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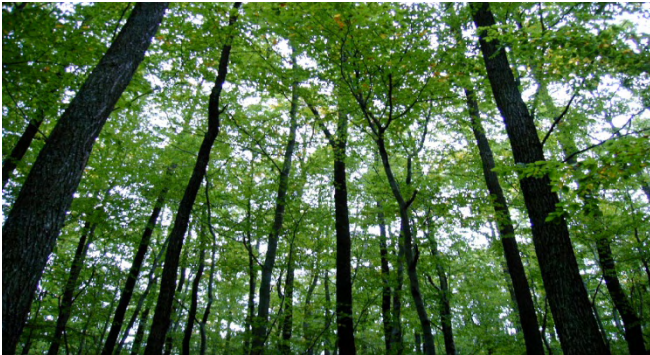
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Spruce forest



Pine forest



Beech forest



Oak forest

## 2. Wood



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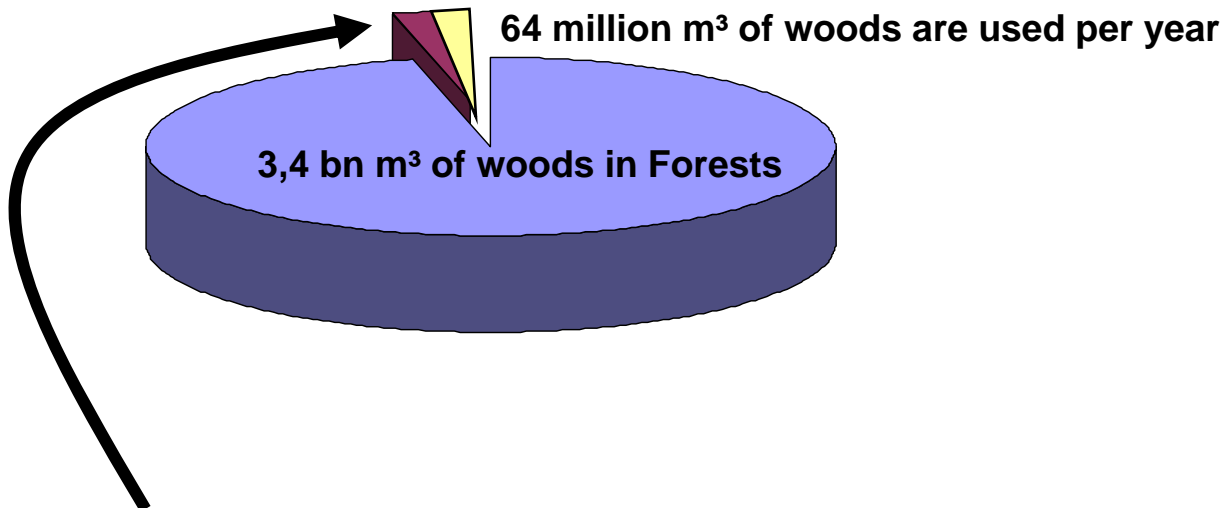
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- Pfleiderer uses approx. 20 % hardwoods and 80% softwoods
- Germany's sustainably managed forests: Annual Forest growth > annual harvest

Annual growth of the forests: 120 million m<sup>3</sup> (approx. 3,5%)



Approx. 64 million m<sup>3</sup> of natural growths. German forests are growing at a rate of approx. 1,5 %!

## 2. Woods used



- Only high quality woods from sustainably managed sources are used



Cut-offs from sawmills



logs

### 3. Power Plant



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#### Power plant (electricity and heat supply)

- Output: approx. 100 MW\*
- Pfeleiderer produces more energy and heat that is needed for the plant and office buildings, overproduction is sold to the public network
- Completion in 2001, features latest filter technologies.
- All emission limits are undercut by far and daily monitored. Emissions can also be monitored on the Pfeleiderer internet
- Carbon dioxide (CO<sub>2</sub>) neutral energy from renewable sources (wood)

\* The annual demand of a 4-person household is produced within 8 minutes!





### 3. Power Plant – Internet Monitoring


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Every day Pfleiderer publishes its emission values on the Pfleiderer web page. Visitors can have a look on [www.pfleiderer.com/de/unternehmen/aktuelle-emissionsdaten](http://www.pfleiderer.com/de/unternehmen/aktuelle-emissionsdaten) and compare last days emissions with the set emission limits. Pfleiderer is so open in this issue, because thanks to the latest filter technologies the set requirements are undercut by far.



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 Aufsichtsrat

## Emissionsdaten

- ▶ Neumarkt Spanplattenwerk 3
- ▶ Gütersloh Spanplattenwerk 2

### Neumarkt: Energiezentrale Spanplattenwerk 3

**Tagesmittelwerte**  
 Messzeitraum: 04.04.2008 (0 bis 24 Uhr)

		Messwert	Grenzwert
Gesamtstaub	mg/m <sup>3</sup>	0,9	10
Kohlenmonoxid (CO)	mg/m <sup>3</sup>	30,1	50
Gesamt-Kohlenstoff (C <sub>ges</sub> )	mg/m <sup>3</sup>	0,5	10

Suche  >  
 Quickfinder   
 Seite drucken

**Ansprechpartner**  
**Dr. Axel Knerr**  
 Pfleiderer AG  
 Ingolstädter Straße 51  
 D-92318 Neumarkt  
 Tel.: 0 91 81 / 28 - 3 10  
 Fax: 0 91 81 / 28 - 5 50  
 ▶ E-Mail schreiben

4. Certificates



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Permanent Formaldehyde approvals (E1 certificate)



Permanent PCP approvals



First, eldest and most renown environmental sign



Forest Stewardship Council



Program for Endorsement of Forest Certification Schemes

**DIN EN ISO 9001: 2000**

Quality management and process optimization

**DIN EN ISO 14001: 2000**

Environmental management

**Pfleiderer meets and exceeds all relevant norms such as Din EN 312, 622, etc....**

## 4. Certificates – E1



The E1 classification requires that the formaldehyde emission of a wood based products is **not greater than 0,01 ppm (parts per mission)**.

The independent organisation “Qualitätsgemeinschaft Holzwerkstoffe” approves on a regular basis that the formaldehyde content of Pflaiderer’s wood based products are below this requirement.

In fact, our values are way below this.

**QUALITÄTSGEMEINSCHAFT HOLZWERKSTOFFE E.V.**

**BESTÄTIGUNG**

Die Firma: **wodego GmbH**  
92318 Neumarkt

wird von uns hinsichtlich der Einhaltung der Formaldehydvorschriften ihrer Spanplattenproduktion überwacht.

Im Rahmen der Qualitätsüberwachung werden durch ein von uns beauftragtes unabhängiges Labor halbjährlich die Eigenüberwachungswerte kontrolliert und an jeweils 3 Ziehungs-Prüfplatten pro Formaldehyd-Dickenbereich<sup>1)</sup> und Plattentyp die Perforatorwerte ermittelt.

Bei der Ziehung **am 26. Juni 2006**  
des Plattentyps: **wodego P2 – FPD**  
**P2 nach DIN EN 312: Platten für Inneneinrichtungen**  
(einschl. Möbel) zur Verwendung im Trockenbereich  
**über 12 bis 25 mm und über 25 bis 40 mm Plattendicke**

Im Formaldehyd-Dickenbereich: **über 12 bis 25 mm und über 25 bis 40 mm Plattendicke**

wurden die Anforderungen<sup>1)</sup> hinsichtlich E1-Qualität, entsprechend der Chemikalien-Verbotsverordnung bzw. der DIBt-Richtlinie 100<sup>2)</sup>, bei der Laboruntersuchung der Ziehungsplatten und der Kontrolle der Eigenüberwachung erfüllt.

Der Geschäftsführer  
  
Dr. Peter Sauerwein

Gießen, 14. August 2006

<sup>1)</sup> Formaldehyd-Dickenbereich: bis 12 mm, über 12 bis 25 mm, über 25 bis 40 mm, über 40 bis 60 mm, über 60 mm Plattendicke

<sup>2)</sup> Maßgebend ist die Einhaltung der im Bundesgesundheitsblatt 10/91 im Anhang zur Veröffentlichung „Prüfverfahren für Holzwerkstoffe“ niedergelegten Perforator-Grenzwerte (95 %-Quantile) für unbeschichtete Spanplatten von 8 mg Formaldehyd (photometrisch gemessen) je 100 g abtrocknete Platte und von 6,5 mg als gleichender Halbwertschwermetallwert, jeweils auf 6,5 % Plattenfeuchte bezogen; näheres siehe dort.

<sup>3)</sup> Richtlinie über die Klassifizierung und Überwachung von Holzwerkstoffplatten bezüglich der Formaldehydabgabe (Fassung Juni 1994). Herausgegeben vom Deutschen Institut für Bautechnik.

D-35386 Gießen • Ursulum 18 • Telefon (0641) 9 75 47 - 0 • Telefax (0641) 9 75 47 - 99

## 4. Certificates – E1



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Entwicklungs- und Prüflabor  
Holztechnologie GmbH  
Zellescher Weg 24 · D-01217 Dresden  
[www.eph-dresden.de](http://www.eph-dresden.de)

The independent test institute eph approves that our MFC products are completely free of PCP (Pentachlorophelo) and Lindane.

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**Deutscher  
Anzeigerungs  
Fuss**  
  
Durch das Deutsche Anzeigerungs-Fuss (DAP) nach DIN EN ISO 1025 akkreditiertes Prüflaboratorium  
Die Akkreditierung ist für alle in der Tabelle aufgeführten Prüfverfahren  
(Registrier-Nr.: 020-PC-122228)

### TEST CERTIFICATE

**CT-07-07-05-04**

**Product:** Medium density fibre boards according to DIN EN 622-5,  
Nominal thickness 6 – 40 mm

**Manufacturer:** PFLEIDERER Holzwerkstoffe GmbH & Co. KG  
Ludwigstraße 43, 63667 Nidda

**Order:** External supervision of MDF with regard to the PCP and Lindane  
content within the external supervision contract FA/97/11/27

**Test method:** Pentachlorophenol (PCP): Institute standard ihd-W 409  
γ-Hexachlorocyclohexane (Lindane): Institute standard ihd-W 410

**Test report:** Supervision report 235001 dated July 05<sup>th</sup>, 2007

**Test result:** The tested MDF do not contain any PCP and Lindane. The MDF meet  
surely the requirements of the limiting and guiding value according to  
the ChemVerbotsV § 1 (15) for PCP and for Lindane according to the  
"Allgemeinen Güte- und Prüfbestimmungen für Möbel RAL-GZ 430".

**Period of validity:** This certificate is valid for the supervision period until January 2008.  
Dresden, July 05<sup>th</sup>, 2007

  
Head of laboratory



  
Engineer in charge

## 4. Certificates – Blue Angel



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The Blue Angel is the first and **oldest environment-related label in the world** for products and services. It was created in 1977 and designed as an instrument of environmental policy.

The Blue Angel promotes the concerns of both environmental protection and consumer protection. Therefore it is awarded to products and services which are particularly **beneficial for the environment** in an all-round consideration (e.g. woods from sustainable forestry) and which also fulfil **high standards of occupational health** (low VOC content, no toxic ingredients, low formaldehyde etc.) and **safety** (product easy to handle, good packaging). **Economical use** of raw materials, production, usage, service life and disposal – all these factors are assigned a high importance.



## 4. Certificates – Sustainable Forestry



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**There are two types of FSC certificates available:**

### ***Forest Management (FM) Certificate***

Forest management certification involves an inspection of the forest management unit by an independent FSC-accredited certification.

### ***Chain of Custody (COC) Certificate***

Chain of custody certification provides a guarantee about the production of FSC-certified products. Chain-of-custody is the path taken by raw materials from the forest to the consumer, including all successive stages of processing, transformation, manufacturing and distribution.

Operations that have been independently verified for FSC chain of custody certification are eligible to label their products with the FSC logo. Pfeleiderer holds a valid chain-of custody certificate.



## 4. Certificates – Sustainable Forestry



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The **PEFC Council (Programme for the Endorsement of Forest Certification schemes)** is an independent, non-profit, non-governmental organisation that was founded in 1999

The scope of PEFC is to **promote sustainably managed forests** through independent third party certification. The PEFC provides an assurance mechanism to purchasers of wood and paper products that they are promoting the sustainable management of forests.

The majority of the woods Pfleiderer processes in its wood panels come from PEFC certified forests.



## 4. Certificates – Sustainable Forestry

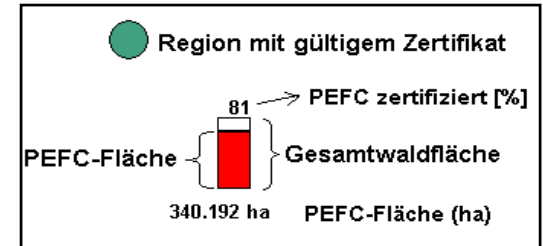
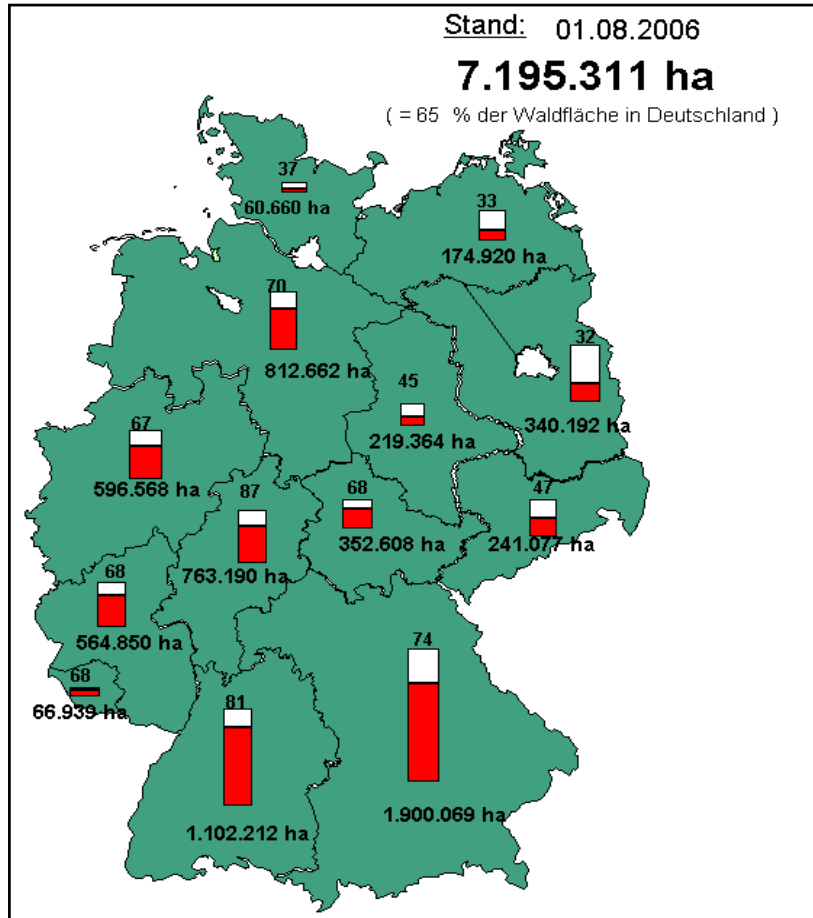


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## 4. Certificates – ISO 14001



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### DIN EN ISO 14001: 2000

The **ISO 14001** environmental management standard exists to help organizations minimize how their operations negatively affect the environment (cause adverse changes to air, water, or land), comply with applicable laws and regulations.

ISO 14001 is the **international specification** for an **environmental management system (EMS)**. It specifies requirements for establishing an environmental policy, determining environmental aspects and impacts of products/activities/services, planning environmental objectives and measurable targets, implementation and operation of programs to meet objectives and targets, checking and corrective action, and management review.



## 4. Certificates – ISO 9001



### DIN EN ISO 9001: 2000

**ISO 9001** is a standard for **quality management systems**. It is maintained by ISO, the International Organization for Standardization and is administered by accreditation and certification bodies. Some of the **requirements** in ISO 9001 include:

- a set of **procedures** that **cover all key processes** in the business
- **monitoring processes** to ensure they are effective
- keeping **adequate records**
- **checking** output for **defects**, with **appropriate corrective action** where necessary
- **regularly reviewing individual processes** and the quality system itself for effectiveness; and
- facilitating **continual improvement**



## 4. Certificates – certificate of conformity



### Certificate of Conformity

This certificate is granted to a product that meets a minimum set of technical, health and safety requirements.

As our panels are also used in the kitchen industry, this approval is especially important, as these panels are in direct contact with food.

<p>DR. RALPH DERRA Chemisches Laboratorium und Versuchs- institut für Lebensmittel- und Verpackungs- materialien, Bismarckstr. 11, Aschaffenburg</p>		<p>ISEGA – Forschungs- und Untersuchungs- Gesellschaft mbH Aschaffenburg</p>	
<p>62704 Aschaffenburg, Kraftbuch 10/065 23141 Aschaffenburg, Zissenerstr. 3-5 Germany Telefon +49 (0) 20 21 1 49 89-0 Telefax +49 (0) 20 21 1 45 89-30 E-Mail: isega@online.de http://www.isega.de</p>		<p>23 May 2006 Dr. Ditta-Pf</p>	
<p>UNBEDENKLICHKEITSERKLÄRUNG CERTIFICATE OF CONFORMITY CERTIFICAT DE CONFORMITE</p>			
<p>eingetragen: registered no. registre:</p>	<p>23026 U 06</p>		
<p>für Firma for Messung pour MM</p>	<p>wodego GmbH, Neumarkt/Germany</p>		
<p>Produkt: Produit: Produit:</p>	<p>Decorative panels with a HPL or direct coating</p>		
<p>The coated elements manufactured by the company mentioned above are used in the manufacture of furniture and in the field of interior decoration as well as in the transport sector (Federal Railway or shipbuilding respectively).</p>			
<p>They were examined by us according to the</p>			
<p>Methoden zur Untersuchung von Kunststoffen, soweit sie als Bedarfsgegenstände im Sinne des Lebensmittel- und Bedarfsgegenstandesgesetzes verwendet werden, einschließlich der 61. Mitteilung des BfR zur Untersuchung von Hochpolymeren, Bundesgesundheitsblatt 46, 362 (2003), Stand vom April 2003.</p>			
<p>(Methods for testing plastics as far as they are used as consumer goods as defined by the Foodstuffs and Consumer Goods Act, including the 61<sup>st</sup> memorandum of the BfR on the examination of high polymers, Bundesgesundheitsblatt 46, 362 (2003), state of April 2003).</p>			
<p>- 2 -</p>			
<p><small>Handwritten number: 23026 U 06 Geschäftsinhaber: Dr. Ralph Derra, Dr. Marion Haselberg, Handelsregister: Aschaffenburg HRB 3279 Vollständigung des Qualitäts- und Gütezeichens durch die Teilnahme an der Bundesweiten Güte- und Qualitätsprüfung – Leistungswettbewerb – Güte- und Qualitätsprüfung (Produktart und Herstellername kennzeichnen)</small></p>			

## 5. Miscellaneous



- Railway/river: almost 10 % of all international European deliveries by railway/river
- Woods don't come from further away than a radius of 100 km (to limit land transportation)
- No tropical woods used
- Germany's forests grow faster than the wood demand

5. Miscellaneous



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**Using renewable resources  
help save the planet!**

**Thank you for your attention!**