

THE BIORACE

EDUCATIONAL BOARD GAME



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BIO-QUESTIONS cards - Educational board game

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Technical contribution: AIJU, Technological Institute for children's products and leisure

Scientific validation by: BTG Biomass Technology Group B.V.

ACKNOWLEDGEMENTS

The GenB Educational game has been reviewed from both scientific-technical and educational perspectives, ensuring their quality and appropriateness for the target audience.

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We extend our heartfelt thanks to all these participants and experts for their invaluable contributions and dedication.

This document details the formulas for various bio-based products that can be manufactured from 12 different types of biomasses found in 4 different environments.

12 TOTAL BIOMASSES

The biomasses are divided by environments because, if you play the PRO version of the game, you need to complete a formula for each environment to have the chance to end the game.

- 3 biomasses for the "**Countryside**" environment; Wine Production Waste, Hemp, Tomato Scraps
- 3 biomasses for the "**City**" Environment; Apple Scraps, Pruning Waste, Coffee Grounds (City)
- 3 biomasses for the "**Forest**" Environment; Bamboo, Wood Scraps, Mushrooms
- 3 biomasses for the "**Sea**" environment; Posidonia, Spirulina, and Fishery waste

MAX 7 FORMULAS PER SINGLE BIOMASS

From each type of biomass (from waste or not), up to 7 different bio-based products (Bio-Products), representing a range of product categories/applications, can be manufactured.

ALTERNATIVE BIOMASSES

The Card will also indicate alternative biomasses from which the same bio-based product can be manufactured (to give a broader overview).

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Grape pomace Waste (Countryside)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|-------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|
| <p><u>Watercolors</u></p> <p>Wine Production Waste + 4 Energy Units</p> <p>1 Sustainability Point</p> | Objects | Paints & Coatings |
| <p><u>Cooking Oil</u></p> <p>Wine Production Waste + 4 Energy Units</p> <p>1 Sustainability Point</p> | Oils | Foods & Drinks |
| <p><u>Food Supplements</u></p> <p>Wine Production Waste + 4 Energy Units</p> <p>1 Sustainability Point</p> | Supplements | Supplements & Additives |
| <p><u>Notebook</u></p> <p>Wine Production Waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | Paper | Paper products |
| <p><u>Eco-leather Jacket</u></p> <p>Wine Production Waste + 7 Energy Units</p> | Eco-leather | Clothing, Shoes & Accessories |

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| | | |
|-------------------------------------------------------------------------------------------------------------|----------|-----------------------|
| 2 Sustainability Points | | |
| <p>Biofuels</p> <p>Wine Production Waste + 10 Energy Units</p> <p>3 Sustainability Points</p> | Biofuels | Energy products |
| <p>Plant Fertilizer</p> <p>Wine Production Waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | Compost | Nutrients/fertilisers |

Hemp (Countryside)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|--------------------------------------------------------------------------------------|-------------|-------------------------|
| <p>Supplement</p> <p>Hemp + 7 Energy Units</p> <p>2 Sustainability Points</p> | Supplements | Supplements & Additives |

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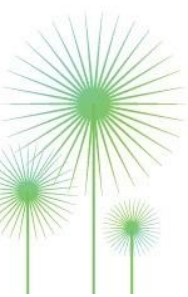


| | | |
|------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------|
| <p><u>Thermal Insulation</u></p> <p>Hemp + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Building Materials</p> | <p>Building Materials</p> |
| <p><u>Bio-based plastic Water Bottle</u></p> <p>Hemp + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Packaging materials</p> |
| <p><u>Scarf</u></p> <p>Hemp + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Fabrics</p> | <p>Clothing, Shoes & Accessories</p> |
| <p><u>Pasta</u></p> <p>Hemp + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Food</p> | <p>Foods & Drinks</p> |
| <p><u>Healing Oil</u></p> <p>Hemp + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Oils</p> | <p>Home, Beauty and Personal Care Products</p> |

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| | | |
|-----------------------------------------------------------------------------------|--------------|-----------------------|
| <p>Notebook</p> <p>Hemp + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Paper</p> | <p>Paper products</p> |
|-----------------------------------------------------------------------------------|--------------|-----------------------|

Tomato Scraps (Countryside)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|-------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------|
| <p>Cosmetics</p> <p>Tomato Scraps + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Cosmetics</p> | <p>Home, Beauty and Personal Care Products</p> |
| <p>Pharmaceutical Compound</p> <p>Tomato Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Medicines</p> | <p>Medicines & Pharmaceuticals</p> |
| <p>Bio Varnish</p> <p>Tomato Scraps + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Objects</p> | <p>Paints & Coatings</p> |

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| <p><u>Protective Lacquers for coating the inside of Metal Food Containers</u></p> <p>Tomato Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Paints & Coatings</p> |
| <p><u>Watercolors</u></p> <p>Tomato Scraps + 4 Energy Units</p> <p>1 Sustainability Points</p> | <p>Objects</p> | <p>Paints & Coatings</p> |
| <p><u>Bio-based plastic Bags</u></p> <p>Tomato Scraps + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Objects</p> | <p>Packaging materials</p> |
| <p><u>Food Additives</u></p> <p>Tomato Scraps + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Objects</p> | <p>Supplements & Additives</p> |

Apple Scraps (City)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|---------|----------|-------------------|
|---------|----------|-------------------|

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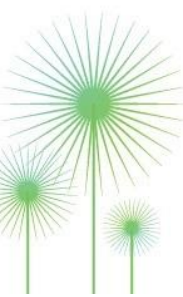


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|-----------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|
| <p><u>Drawing Sheets</u></p> <p>Apple Scraps + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Paper</p> | <p>Paper products</p> |
| <p><u>Bio-based plastic Vase</u></p> <p>Apple Scraps + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Objects</p> | <p>Room decoration</p> |
| <p><u>Eco-leather Handbag</u></p> <p>Apple Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Clothing, Shoes & Accessories</p> |
| <p><u>Food Packaging</u></p> <p>Apple Scraps + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Paper</p> | <p>Packaging materials</p> |
| <p><u>Toilet Paper</u></p> <p>Apple Scraps + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Paper</p> | <p>Paper products</p> |

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|----------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------|
| <p><u>Supplement</u></p> <p>Apple Scraps + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Supplements</p> | <p>Supplements & Additives</p> |
| <p><u>Eco-leather Sneakers</u></p> <p>Apple Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Clothing, Shoes & Accessories</p> |

Pruning Waste (City)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|----------------------------------------------------------------------------------------------------|-----------------|------------------------|
| <p><u>Biofuel</u></p> <p>Pruning Waste + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Biofuels</p> | <p>Energy products</p> |

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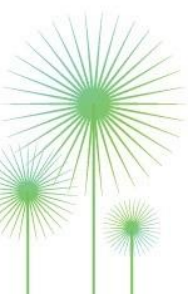


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|---------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------|
| <p><u>Plant Fertilizer</u></p> <p>Pruning Waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Compost</p> | <p>Nutrients/fertilisers</p> |
| <p><u>Thermal Insulation</u></p> <p>Pruning Waste + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Building Materials</p> | <p>Building Materials</p> |
| <p><u>Confetti</u></p> <p>Pruning Waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Paper</p> | <p>Paper products</p> |
| <p><u>Socks</u></p> <p>Pruning Waste + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Fabrics</p> | <p>Clothing, Shoes & Accessories</p> |
| <p><u>Gift Wrapping Paper</u></p> <p>Pruning Waste + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Paper</p> | <p>Paper products</p> |

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| <p><u>Panels</u></p> <p>Pruning Waste + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Building Materials</p> | <p>Building Materials</p> |
|-------------------------------------------------------------------------------------------------|---------------------------|---------------------------|

Coffee Grounds (City)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|----------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|
| <p><u>Notebook</u></p> <p>Coffee Grounds + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Paper</p> | <p>Paper products</p> |
| <p><u>Fertilizer for Mushrooms</u></p> <p>Coffee Grounds + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Compost</p> | <p>Nutrients/fertilisers</p> |
| <p><u>Technical Sports T-shirt</u></p> <p>Coffee Grounds + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Fabrics</p> | <p>Clothing, Shoes & Accessories</p> |
| <p><u>Coffee Cup</u></p> <p>Coffee Grounds + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Kitchen products</p> |

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|---------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------|
| <p><u>Biofuel</u></p> <p>Coffee Grounds + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Biofuels</p> | <p>Energy products</p> |
| <p><u>Pen</u></p> <p>Coffee Grounds + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Office supplies</p> |
| <p><u>Air Freshener</u></p> <p>Coffee Grounds + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Objects</p> | <p>Home, Beauty and Personal Care Products</p> |

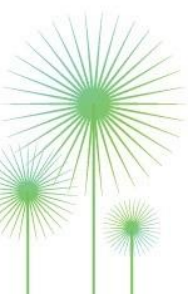
Bamboo (Forest)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
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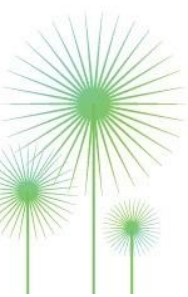


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|-----------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------|
| <p><u>Gloves</u></p> <p>Bamboo + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Fabrics</p> | <p>Clothing, Shoes & Accessories</p> |
| <p><u>Supplement</u></p> <p>Bamboo + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Supplements</p> | <p>Supplements & Additives</p> |
| <p><u>Deodorant</u></p> <p>Bamboo + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Cosmetics</p> | <p>Home, Beauty and Personal Care Products</p> |
| <p><u>Flooring</u></p> <p>Bamboo + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Building Materials</p> | <p>Building Materials</p> |
| <p><u>3D Puzzle</u></p> <p>Bamboo + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Toys & Games</p> |

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| <p><u>Guitar</u></p> <p>Bamboo + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Sports & Music</p> |
| <p><u>Toothbrush</u></p> <p>Bamboo + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Objects</p> | <p>Home, Beauty and Personal Care Products</p> |

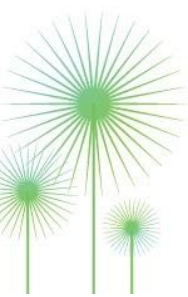
Wood Scraps (Forest)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
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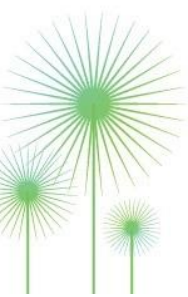


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|-------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------|
| <p><u>Pants</u></p> <p>Wood Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Fabrics</p> | <p>Clothing, Shoes & Accessories</p> |
| <p><u>Crutches</u></p> <p>Wood Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Liquid Wood</p> | <p>t.b.d.</p> |
| <p><u>Thermal Insulation</u></p> <p>Wood Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Building Materials</p> | <p>Building Materials</p> |
| <p><u>Cat Litter</u></p> <p>Wood Scraps + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Objects</p> | <p>Animal Food & Care</p> |
| <p><u>Biofuels</u></p> <p>Wood Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Biofuels</p> | <p>Energy products</p> |

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| <p><u>Pharmaceutical Compound</u></p> <p>Wood Scraps + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Medicines</p> | <p>Medicines & Pharmaceuticals</p> |
| <p><u>Freight Transport Support (Pallet)</u></p> <p>Wood Scraps + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Objects</p> | <p>Transport & Shipping</p> |

Mushrooms (Forest)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
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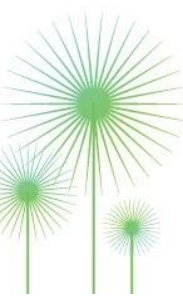


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| <p><u>Packaging Material</u></p> <p>Mushrooms + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Objects</p> | <p>Packaging materials</p> |
| <p><u>Bricks</u></p> <p>Mushrooms + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Building Materials</p> | <p>Building Materials</p> |
| <p><u>Eco-leather Belt</u></p> <p>Mushrooms + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Eco-leather</p> | <p>Clothing, Shoes & Accessories</p> |
| <p><u>Plant Fertilizer</u></p> <p>Mushrooms + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Compost</p> | <p>Nutrients/fertilisers</p> |
| <p><u>Supplements</u></p> <p>Mushrooms + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Supplements</p> | <p>Supplements & Additives</p> |
| <p><u>Biofuels</u></p> <p>Mushrooms + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Biofuels</p> | <p>Energy products</p> |

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| <p>Biodegradable-Interred Vases</p> <p>Mushrooms + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Objects</p> | <p>Room decoration</p> |
|-------------------------------------------------------------------------------------------------------------|----------------|------------------------|

Posidonia (Sea)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|---------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------|
| <p>Cosmetics</p> <p>Posidonia + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Cosmetics</p> | <p>Home, Beauty and Personal Care Products</p> |
| <p>Pharmaceutical Compound</p> <p>Posidonia + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Pharmaceuticals</p> | <p>Medicines & Pharmaceuticals</p> |
| <p>Grocery Bag</p> <p>Posidonia + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Objects</p> | <p>Packaging materials</p> |

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| <p>Plant Fertilizer</p> <p>Posidonia + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Compost</p> | <p>Nutrients/fertilisers</p> |
| <p>Biofuels</p> <p>Posidonia + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Biofuels</p> | <p>Energy products</p> |
| <p>Insulating Material</p> <p>Posidonia + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Building Materials</p> | <p>Building Materials</p> |
| <p>Carpet</p> <p>Posidonia + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Objects</p> | <p>Room decoration</p> |

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Spirulina (Sea)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|--------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|
| <p><u>Face cream</u></p> <p>Spirulina + 7 Energy Units</p> <p>2 Sustainability Points</p> | Cosmetics | Home, Beauty and Personal Care Products |
| <p><u>Supplement</u></p> <p>Spirulina + 4 Energy Units</p> <p>1 Sustainability Point</p> | Supplements | Supplements & Additives |
| <p><u>Cellphone cover</u></p> <p>Spirulina + 10 Energy Units</p> <p>3 Sustainability Points</p> | Objects | t.b.d. |
| <p><u>Pasta</u></p> <p>Spirulina + 4 Energy Units</p> <p>1 Sustainability Point</p> | Food | Foods & Drinks |

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| <p><u>Biofuels</u></p> <p>Spirulina + 10 Energy Units</p> <p>3 Sustainability Points</p> | <p>Biofuels</p> | <p>Energy products</p> |
| <p><u>Animal feed</u></p> <p>Spirulina + 4 Energy Units</p> <p>1 Sustainability Point</p> | <p>Food</p> | <p>Animal Food & Care</p> |
| <p><u>Lamp stand</u></p> <p>Spirulina + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Objects</p> | <p>Room decoration</p> |

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Fishery waste (Sea)

| PRODUCT | CATEGORY | SPECIFIC CATEGORY |
|----------------------------------------------------------------------------------------------|-------------|-----------------------------------------|
| <p>Sunscreen</p> <p>Fishery waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | Cosmetics | Home, Beauty and Personal Care Products |
| <p>Supplement</p> <p>Fishery waste + 4 Energy Units</p> <p>1 Sustainability Point</p> | Supplements | Supplements & Additives |
| <p>Wallet</p> <p>Fishery waste+ 10 Energy Units</p> <p>3 Sustainability Points</p> | Eco-leather | t.b.d. |

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| <p><u>Plant fertilizer</u></p> <p>Fishery waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Compost</p> | <p>Nutrients/fertilisers</p> |
| <p><u>Bricks</u></p> <p>Fishery waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Building Material</p> | <p>Building Materials</p> |
| <p><u>Bioreef-artificial reefs</u></p> <p>Fishery waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Building Material</p> | <p>Building Materials</p> |
| <p><u>Packaging material</u></p> <p>Fishery waste + 7 Energy Units</p> <p>2 Sustainability Points</p> | <p>Objects</p> | <p>Packaging materials</p> |

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