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The diagram illustrates the integrated model for the assessment of the environmental impact of the production and use of a product. It is organized into three main sections: 1. Production, 2. Distribution, and 3. Use. Each section contains various inputs and outputs, including raw materials, energy, and emissions. The model is integrated, showing the flow of materials and energy between the different stages of the product lifecycle.

1. Production: This section shows the initial stage of the product lifecycle. It includes inputs such as raw materials (e.g., wood, metal, plastic) and energy (e.g., electricity, natural gas). The production process generates outputs such as finished products and emissions (e.g., CO₂, CH₄, SO₂, NO_x, PM, VOCs).

2. Distribution: This section shows the stage of the product lifecycle where the product is transported and distributed. It includes inputs such as fuel (e.g., diesel, gasoline) and energy (e.g., electricity). The distribution process generates outputs such as delivered products and emissions (e.g., CO₂, CH₄, SO₂, NO_x, PM, VOCs).

3. Use: This section shows the stage of the product lifecycle where the product is used by the end user. It includes inputs such as energy (e.g., electricity, natural gas) and water. The use process generates outputs such as product performance and emissions (e.g., CO₂, CH₄, SO₂, NO_x, PM, VOCs).

The diagram also shows the flow of materials and energy between the different stages of the product lifecycle. For example, raw materials are used in production, and finished products are distributed to the end user. Energy is used in production and distribution, and water is used in use. Emissions are generated at each stage and can be recycled or treated.

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