

Let's Think About SDGs

Issue 3 Goal 12 Responsible Consumption and Production

Continuing with SDGs related to Nippon Paper Group business, let's look at Goal 12 which is "Responsible Consumption and Production".

Hi there!
I'm Mr. S.D.Gees, and I'm here to learn all about SDGs and how I can apply them in my work.



Remember to check the QR code again!



Goal 12 "Responsible Consumption and Production" and its Background

(Goal)

- Ensure sustainable consumption and production patterns

See goal 12 and all its targets at <https://bit.ly/2R9hHRj>



Targets (SDG 12 targets related to our Group)

- 12.2 achieve sustainable management and efficient use of natural resources
- 12.3 reduce food losses along production and supply chains
- 12.4 achieve environmentally sound management of chemicals and all wastes throughout their life cycle, and reduce their release to the environment
- 12.5 substantially reduce waste generation through prevention, reduction, recycling and reuse
- 12.8 educate people to have information and awareness for sustainable development and lifestyles in harmony with nature

Hey - look at 12.2, doesn't it remind you of Goal 15 from the last issue?

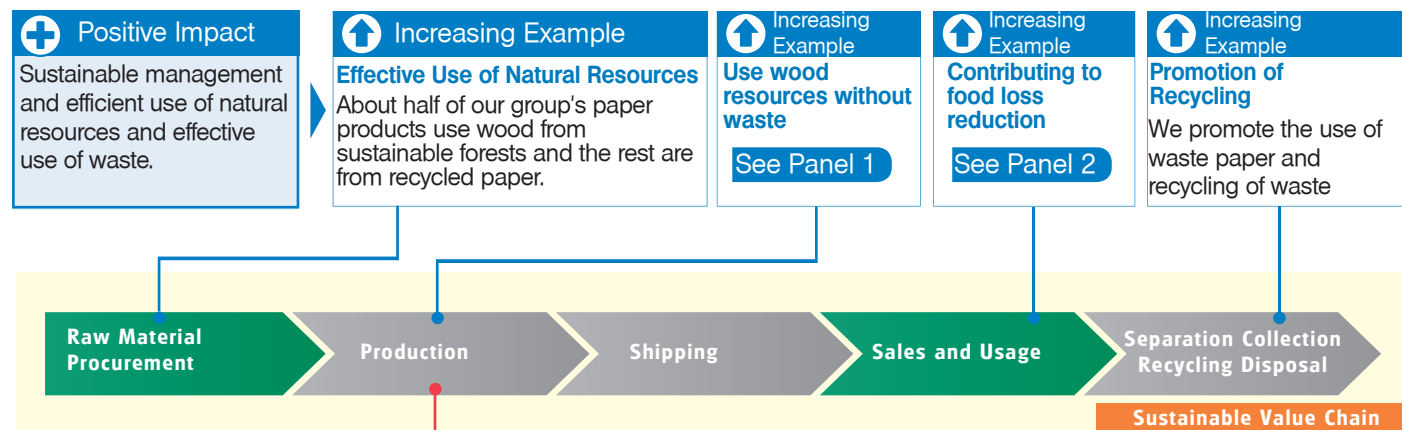


Background To have both economic growth and sustainable development, we need to reduce the burden we put on the environment. It's important to manage natural resources efficiently, to improve waste and pollutant treatment methods, and to promote the reduction and reuse of waste by both companies and consumers. One problem which wastes natural resources is "food loss", which has become a social issue in developed countries. It can be combated by an efficient production system throughout the value.

Nippon Paper Group and Goal 12

In order to achieve the goal, it is necessary to strengthen the positive impact, and to reduce the negative impact on the goal within the value chain*. Examples of how our Group impacts on Goal 12 are shown below.

* Value chain: the entire sequence of activities or parties that provide or receive value in the form of products or service



Negative Impact

Wasting of natural resources and emitting environmentally hazardous substances

Decreasing Example

Reduction of environmental burden
In the product manufacturing process, waste water, air, and organic matter which contains pollutants are generated. To combat this, our Group introduced facilities and technologies to remove these substances, reducing them below the standard values of environmental laws, before then discharging them.



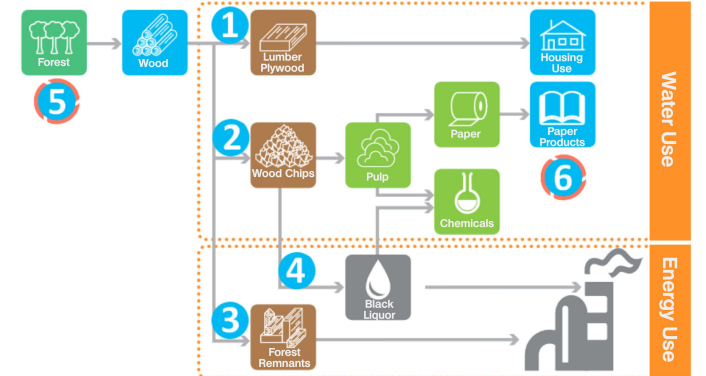
Now, doesn't Goal 12 sound exactly like the sort of thing our Group does? Let's look at some examples!

Panel 1 The Group's effective use of wood resources (12.2)

By operating a multistage (cascade), we make effective use of wood resources

- Lumber and plywood for building use
- Wood chips for paper and chemical products
- Forest land remnants and building waste are converted to biomass fuel
- Black liquor is a by-product of pulp manufacture, and is also used as biomass fuel
- Reforestation after logging
- Reuse used paper for products

How wood resources are used



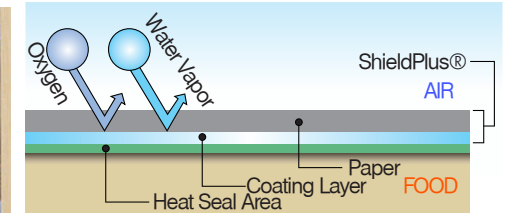
Panel 2 Paper material with barrier properties which can preserve food quality ... Shield Plus® (12.3)

Nippon Paper Industries has been selling Shield Plus® since November 2017. It prevents permeation of water vapor and oxygen, and, since it prevents oxidation and does not affect the food's flavor, food expiration dates can be extended. It can help to solve marine plastics pollution, while also taking advantage of paper's texture and printability. The Japanese Ministry of Agriculture, Forestry and Fisheries quotes it as an "Example of high performance packaging contributing to the reduction of food loss".



Example of Food Packaging

Sectional view of Shield Plus®



Water-based coating layer for preventing permeation of water vapor and oxygen is applied to paper



Look at the positive effort our Group is making to help children learn about forests and paper! Does anything similar happen in your workplace?

Environmental Education

Every year, a "School of Friendship for Forest and Paper" is held in the company's forest (12.8)

The annual "School of Friendship for Forest and Paper" is an environmental learning school unique to our Group, set in Nippon Paper's own forest in Japan (about 90,000 ha). Participants learn the importance of forests and environmental awareness, and experience paper making, using natural forest materials.



Learn the work of the forest at the company-owned forest



Making hand made paper together



Look back on the work and let's think about what other plus / minus influences there are, and how to affect them for the better. Also, please look at the content of the group's CSR report as a reference.



<https://bit.ly/2VsNPO8>



Sustainability Report 2018

Please answer our survey at <https://bit.ly/2CNaXzG>

