Let's Think About SDGs

Goal 7 Affordable and Clean energy

Carrying on from issue 2, we are looking at SDGs related to Nippon Paper Group business. This issue deals with Goal 7 “Affordable and Clean energy”.

SDGs have goals and targets. See goal 7 and all its targets at https://bit.ly/2GINJ2q

Issue 5 of 12

**Goal 7 “Affordable and Clean energy” and its Background**

- (Goal) Ensure access to affordable, reliable, sustainable and modern energy for all

**Targets (SDG 7 targets related to our group)**

- 7.2. Ensure universal access to affordable, reliable and modern energy services
- 7.7.a Enhance facilitating access to clean energy research and technology, including cleaner fossil-fuel technology

**Background**

Since people everywhere use energy (electricity), if they continue to rely on fossil fuels, emission of greenhouse gasses will have a major impact on climate. Therefore, it is necessary to develop technologies that can supply energy with low environmental impact, to supply it more cheaply and to encourage its widespread use.

**Nippon Paper Group and Goal 7**

About half energy used by our group for domestic production is non-fossil fuel derived from woody biomass such as black liquor (a byproduct of pulp manufacturing), and building waste (1).

We also use the power generation technology developed for paper-making as a (mainly renewable) energy business itself. (2).

**Development of biomass mixed combustion technology**

Treflection technology is a method, developed by our company for manufacturing biomass-based fuels which can replace coal in thermal power generation. The technique semi-carbonizes woody biomass, giving it excellent handling qualities. The resultant woody fuel (Trefphide pellets) can be used in place of coal in existing coal-fired power plants.

Currently, we are running a demonstration test in Thailand and a burning test at the Kushiro mill.

**Raw Material Procurement**

- Use of non-fossil fuel
- Development of mixed biomass technology

**Production**

- Treflection technology
- Biomass fuel

**Shipping**

- Biomass pellets

**Sales and Usage**

- Biomass power generation facilities in energy business

**Separation Collection Recycling Disposal**

- Biomass and waste management
- Recovery boiler

We are looking for opinions from you. Please complete the WEB questionnaire.

https://bit.ly/2CNaXzG

* In-house figure by Nippon Paper Industries Co., Ltd. using energy supply information (fiscal 2016 finalized information)

Trefphide Pellet