



NOTE NUMBER 5

RENEWABLE ENERGY NORWAY



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With the many rivers, steep mountains and heavily rainfall, Norway has an excellent opportunity to make use of waterfalls to make renewable energy. Although this resource is considered both green and renewable, the damming of rivers has a negative impact on vulnerable wild-life such as the wild-salmon. Therefore Norway now are looking for other renewable sources. One interesting one is wind mills, since Norway have a long coast line with a lot of wind. The challenges with this is, among others, topography, heavy weather and long distances. This makes it difficult to manage to take advantages of all of the renewable energy economically. Especially in the north, this is considered a great issue.

Another addition to look after and maintain the biological diversity in the rivers and lakes, the department of environment decided to develop even other sources for renewable and green energy. Areas of commitments are, among others, windmill, bioenergy and also a more conscious focus on re-use and recycling. For instance does the cleaning-construction for sewage use the wastewater several times in the rinsing process, the gas produced in the decomposition are used for local production of both heat and electricity. While the solid substances to be used for peat and further food production. The challenges concerning the windmills are, among others, topography, heavy weather and long distances. This makes it difficult to manage to take advantages of all of the renewable energy economically. Especially in the north, this is considered a great issue.

At Skjetlein upper secondary school, our focus is for the students to understand the resources in the nearby surroundings; the forest, the little stream, and the production of biogas from the farm. This is done through both practice at the school and also, for some students, while they have their practice at relevant trades. We also have started a cooperation with a local company which produces energy from wooden splinters. In school our focus is to teach the student how to manage to make the forest a renewable resource. We therefore let them follow the entire process from planting a juvenile tree, knowing when it is reproducible, and at what time it is best, both ecological and economical to chop it down. It is also of great interest to teach them why and how much of the wooden waste should be left in the forest, and the amount to make energy of.



A water-wheel for production of electricity owned and used in demonstrations by the school.



The students are cutting trees using chain saws.



The students are making wooden splinters for heat production using a woodchopper-machine. It is worth to mention the students all have a high focus on using correct outfit like helmet and clothing made for this kind of work.