

# EH2220: The Sustainable Electric Power Engineer

Topic 5

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My future role as an engineer will issue the sustainable aspect in many ways. First and foremost have electrical power engineers a very important job, since we are working on one of the most important infrastructure areas. There are lots to do to achieve a sustainable electrical power sector. If we look at the sustainable circle containing environment, social aspects and the economy, there is much to do in each part.

In the environment part electrical power engineers need to focus on produce green electricity. In many parts of the world there are good potential for using renewable energy sources instead of fossil fuel, we engineer just has to be smart enough to build smart grids in a good way so it can be used as efficiently as possible.

In the social aspects there is also a lot to do. Many of the human population don't have the access to electricity, which is a key to a good life. Here we can implement small smart grids from the beginning, educate people in these areas about suitable electrical power and build up fare electricity markets.

In the last part regarding economy, our smart grids need to be built economically efficiently where we manage with our resources. We need to be better on recycling material used to build up a power system and design products with long lifetimes.

The work I will do in the future, focusing on communication and control for building smart grids will influence the sustainability of the society in the way I will try to build so efficient smart grid as possible and at the same time think about all other aspects of a sustainable future.

The knowledge I got in the material "KTH and sustainability" can I apply in the future in a way that I'm can affect the way the company that I work for to choose material which thinks of the environment and the social aspect in every step from production to finished product. I can work in a suitable workplace by thinking of how our resources are used, like not to print out lots of unnecessary paper and recycle the waste. I can choose to have Skype meetings instead of traveling and when I'm traveling choose transport ways that are good for the environment.

In my case I think I'm pretty well prepared you for working with sustainability since I'm studying the energy and environment program. In many of our bachelor courses were based on the sustainability aspect. However, I still think the environmental aspect in my master studies could cover it more. This is the first time in my master education I hear the talk about sustainability in more way than just the environment. Nevertheless, I think that the courses we had in the master program take up the aspect of environmental issued good and every course contribute in their own way. The courses can point out material that are used which is good for the environment and not and also other aspects as to use application in other ways.