



Sustainability issues include the environmental and social aspects and the responsibility to promote balanced usage. On a whole it is the responsibility of an individual to act more sustainable and is important for me as an engineer. A simple example can be the usage of lighting system when not required. I have been energy conscious and tend to switch off the lights when there is enough sunlight. Though the act may be very simple, the energy conserved saves the electricity generation and in turn leads to less carbon dioxide emission than actual. It's a chain of events leading to an adverse effect on environment. As an electrical engineer, it should be my prime consideration to reduce the effect on environment due to electrical appliances. So I would like to help and contribute for new innovations which address these issues.

The advancement in technology and innovations is a boon. It can help in leading a sustainable life style. As an electrical engineer, I would say energy efficient and clean resource is one of the key factors that technology must influence in the society. This can be related with an example from the power engineering field. We know that in the recent years gas insulated substations are being constructed over the traditional air insulated substations. The advantage being that it occupies less space and more land for agriculture and other purposes. However the gas Sulphur hexafluoride (SF_6) used for insulation is more harmful and causes more greenhouse effect than Carbon dioxide. In the recent years there has been research to find an alternative to this gas and there has been significant development with usage of Carbon dioxide. All these improvements are due to the advancement in technology which paves way new materials, new techniques to look for a variety of solutions to address a specific problem.

It is the right time for us, to act and work for a promising future that is sustainable. I feel that the course material is quite robust and provides a wide outlook to perceive sustainability in each and every action that we do. A simple idea is to promote the usage of bicycles or to use more of public transportation which is already in practice in Sweden. One thing that I can follow is that I can try to not waste food, recycle the wastes and consume products that are has a sustainable balance with the environment and life style. In this way I can influence my other friends and make a difference. If every single person has a change in attitude then there is a change that is influenced in the society.

At KTH, there are courses that impart the idea of sustainable development. In one of the courses "Power systems and environment" we are asked to investigate on certain power system applications, their influence on environment and the alternatives to mitigate the critical issues. This has changed my perspective to look at a product and check for the advantages and disadvantages for the environment and personnel. It could be said that the idea of sustainability is imparted through most of the courses at KTH. The other courses with relation to Power system analysis and power system stability has given a clear idea of how power system can be made more robust and reliable for operation. Apart from the academia, student union's Armada has also taken sustainability as the theme in 2015. KTH gives us more motivation to prepare ourselves for a sustainable future. However it is all our responsibility to make it happen and spread the knowledge.