

UNIDO

STRATEGIES AND PLANNING BASED IN THE 3RD INDUSTRIAL REVOLUTION

OVERVIEW:

One of the hardest problems for the industrial and technological development is the environmental issues that this has.

So in this committee we as an international community have to manage and follow an eco friendly development and an equilibrated construction increasing based on the Third Industrial Revolution, which is based upon 5 Pillars:

- 1) Shifting to Renewable Energy
- 2) Converting Buildings into Power Plants
- 3) Hydrogen and Other Energy Storage Technology
- 4) Smart Grid Technology
- 5) plug in, Electric, Hybrid, and Fuel Cell based Transportation

Following these statements, nations worldwide must prepare for a new state of the art uprising where countries involved and related to the five pillars will come up in front of everyone else and one step ahead into the future economy.

INTRO:

Ever since the First Industrial Revolution, the main point of them have always been helping people and make them easy to work in volatile labor stations, including communication and transportation.

The new revolution is the opportunity to innovate and create new technology and processes to be eco-friendly, to use Internet as a way to communicate and not a way to attack the integrity of a country.

BRIEF HISTORY:

In the past we have seen the First Industrial Revolution that was all about the coal and its use in steam motors. Also related to the printing press for the communication and freedom of media expression and even developing new ways to build up and creating different production processes.

The Second Industrial Revolution was about the exploitation of the oil as mass production lines and the massive communication such like the radio, television and telephone, the use of these technologies were the main source of information and communication, but now is different.

CURRENT SITUATION:

Economic growth predicts that in the next 20 years, 3 billion people will rise to middle class and this demands more construction, food production, drinking water, work spaces and more of everything; this mean pollution increase and resources shortage that will become a constant problem due to the excess of population in the cities.

This revolution's goals are to create technologies and generate new processes for the green and eco-friendly relations with the environment during this develop.

Let's take an example of the importance of the industrialization basing on China; in the 1980's was a low income country with no growth and an agriculture based economy; now after 30 years of industrial growth China has one of the highest GDPs of the whole world and let the agriculture based economy in the past to allow a better economy based on industrial development.

The Third Industrial Revolution is based upon 5 Pillars:

- 1) Shifting to Renewable Energy
- 2) Converting Buildings into Power Plants
- 3) Hydrogen and Other Energy Storage Technology
- 4) Smart Grid Technology
- 5) Plug in, Electric, Hybrid, and Fuel Cell based Transportation

The question remains on how we, as an international community, can reach each goal, to be eco friendly and have a sustainable development?

In Dubai, Tokyo, and other overpopulated cities with enough technological progress have plans for the construction of self-energy producing buildings. This is a result of the decrease of fossil fuel use in their national power plants and obviously less pollution.

The energy storage is one of the main issues in today's communities and countries, for example, how much does a phone battery lasts? So is a major issue to imagine a national energy supply that doesn't require much space, this supply

needs to be constantly renewed, this leads to more pollution that can be avoided with more energy storage investigation.

If a technology is smart, (this means that is multitask and can operate several functions all at once), you can use it for a lot of things, and nowadays for almost everything. The development for this tech is crucial for the infrastructure of the new model of industry that this revolution is trying to give.

The creation of the conduction and transportation of information and energy is a pin-point for the allowance of the transportation of massive information with no loses. Energy reaching to spread regions of the nations is a need that must be addressed with innovative energy supplies.

If the new infrastructure is grasped, the feeding energy and processing information time become easier and cheaper to deliver. The new green energies are one of the faster, demanding, growing energy sources in the world.

CONTROVERSIAL POINTS:

In the European Union, Germany is a top leader nation in this category (one of the pioneers of the eco-friendly energy obtaining), with 74% of its energy produced only with solar and wind energy; if we can follow this model gradually and not with an abrupt change, it is possible to accomplish it.

The in developing countries have to deal with the change of infra structure, but also the oil based economy countries, such as the members of the Arab Union. Most of

their economic structures are founded on oil sales and extraction in order to produce their energy.

These changes are expensive, but on a mid and long term, they could help the nations to decrease the money waste in fossil fuels and reduce the coal usage without damaging the environment looking into future methods of improving life in our planet for decades to come.

