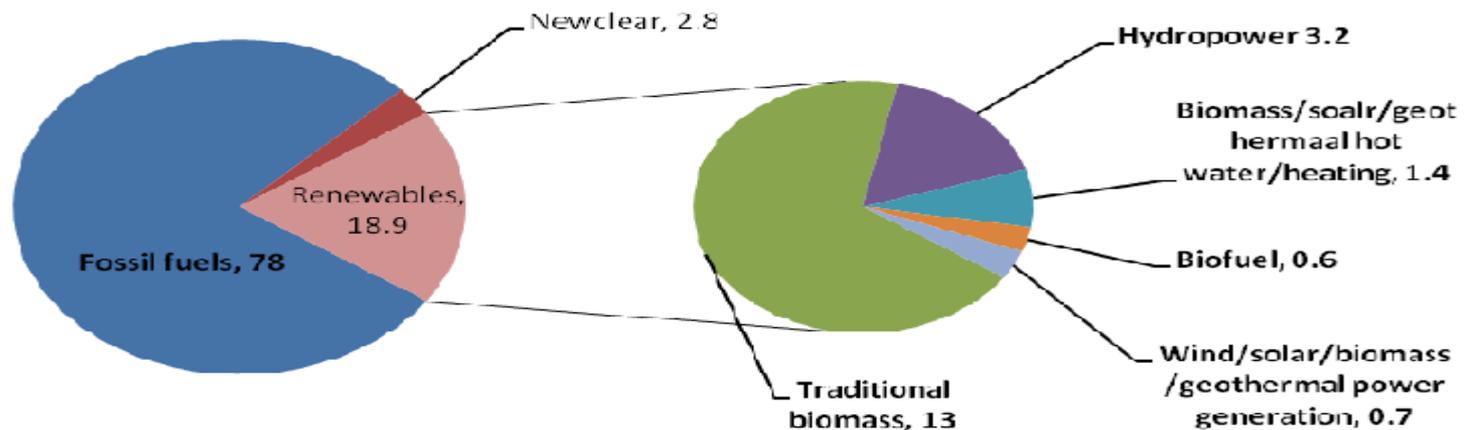


Name of the student
Name of the university

Report on a Contemporary External Strategic Environment

Introduction

- This presentation focuses on the solar segment of the Renewable Energy Industry
- It focuses on the development of Scenario Grid that will drive the segment
- It discusses about the future Trends and developments in the solar sector
- The Scenario Grid includes four different scenarios
- All these aspects are presented with detailed information



Overview of Solar sector

- Solar sector has been selected for the development of scenario
- Various changes and development are taking place in the solar industry
- The annual insolation in the United Kingdom is between 750 and 1,100 kilowatthours per square metre
- UK's sunniest regions receive far less solar radiation than Europe's sunniest region
- The country's insolation in the south is equivalent to that of central European countries

Selected dimensions

- The two dimension which have been selected are as follows:
- High technology and automation
- Changes in the consumer behaviour
- The grid has four quadrants
- Each quadrant signifies four different scenarios that will drive solar segment



Solar water heater

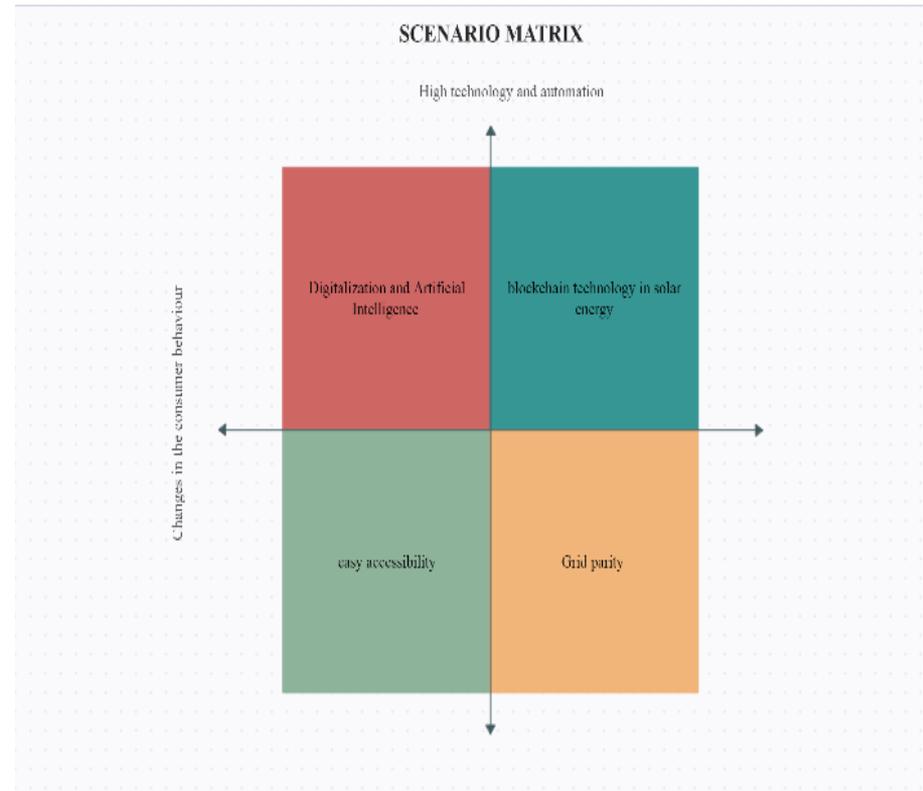
Extremes of each dimension

- The development of new solar photovoltaic (PV) has created a powerful impact
- Different types of PV panels can be used by people
- The use of solar energy has increased by 4% in the year 2016
- This technology has the potential of reducing the emission of carbon dioxide
- The Trends such as deployment and feed-in tariff for residential PV have also increased



Describe the scenarios

- The first scenario is Digitalization and Artificial Intelligence in the Solar power industry
- Technologies such as Digitally controlled robots and drones will be used
- By the end of 2020, digitalisation in the solar power industry would increase
- This will help the industry in maintaining safety standards (Tangstad et al., 2020)
- This will help to provide power to the world



Describe the scenarios

- The second scenario is easy accessibility
- Sensor technology is getting better over time
- The efficiency of solar power would increase in the coming future
- This would be done by manufacturing more solar panels
- Solar panels will be used residential as well as commercial purposes



Describe the scenarios

- The third scenario is blockchain technology in solar energy
- Energy customers would be able to use blockchain products
- Blockchain can be used for facilitating and recording energy transactions (Aggarwal, Syed and Garg, S., 2019)
- Energy customers would be able to use blockchain products
- These products will be developed on the basis of Technology

Describe the scenarios

- The fourth scenario is Grid parity
- Renewable energy sources can create electricity (Singh et al., 2019)
- Electricity generation will be equal to that of thermal power plants
- Renewable energy may soon become even more economical
- This will contribute to reduce global warming

Justification of which scenario is the most 'likely or plausible'

- The solar power industry has become essential
- The issue of global warming is increasing on a continuous basis (Ferreira et al., 2018)
- This has developed a need for increasing the consumption of solar energy
- Blockchain technology in solar energy would assist people in using Solar energy
- Solar energy will be used by the people on regular basis



Conclusion

- In the United Kingdom's solar business, new technologies are being deployed
- This is done in order to boost solar energy productivity in the UK
- The spending patterns of consumers in the UK's solar business are changing
- The development of new solar photovoltaic (PV) has had a significant impact
- This technique has the potential to reduce carbon dioxide



References

- Aggarwal, A.K., Syed, A.A. and Garg, S., 2019. Factors driving Indian consumer's purchase intention of roof top solar. *International Journal of Energy Sector Management*.
- Ferreira, A., Kunh, S.S., Fagnani, K.C., De Souza, T.A., Tonezer, C., Dos Santos, G.R. and Coimbra-Araújo, C.H., 2018. Economic overview of the use and production of photovoltaic solar energy in brazil. *Renewable and Sustainable Energy Reviews*, 81, pp.181-191.
- Singh, M., Kele, V.D., Chavan, B., Ranvir, S. and Dhotre, A.V., 2019. A Review on Solar Water Heating Systems and its Use in Dairy Industry. *Int. J. Curr. Microbiol. App. Sci*, 8(4), pp.1975-1986.
- Tangstad, M., Andresen, B., Rong, H., Tveit, H. and Gamst, I., 2020. Silicon for the Chemical and Solar Industry XV.

Thank You
