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Sustainable Research for Developing Renewable Resource and Creating Its Industrial Reformation

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Abstract

The sustainability will be wielding its important roles in industrial division evidently currently more and more for saving resource contaminated and polluted in world. At the same time, the industrial reformation will be proceeded correspondingly which includes developing with research department and manufacturing products in different factories. The new high technology will be satisfactory to every one of us since it has performance with convenience and security. Creating industrial innovation is to include research, development, manufacture with new convenient and prompt software and hardware for making new functional technology. At the same time, developing renewable source will be an evident phenomenon recently where the low carbon electricity like the photovoltaic, nuclear power plant & wind turbine generator is included. Energy storage station must be built more and more for conveniently utilizing it to our vehicles in the end. Especially the battery technology may be developed more for regulating urgent atmosphere matters.

Keywords: Sustainable research; Renewable resource; Creation; Industrial division; Innovation; Battery

Introduction

The third industrial revolution has been prevailing now in every corner of world which means the new and renewable energy is evident recently. Therefore, the new sustainability research & development is inevitably forming a strong group for innovative creation on sustainability and renewable exploited energy and source. What is the sustainability? Answer is saving cost and increasing efficiency & green low carbon where it includes in renewable energy manufacture related technology, device and components. At the same time, developing renewable source will be an evident phenomenon recently where the low carbon electricity like the photovoltaic, nuclear power plant & wind turbine generator is included. The plug-in electric vehicle has taken a big revolution with energy and transportation business. The General Motor Company has been in cooperation with Edison electric institution and New York energy bureau & northeast public enterprise. The green vehicle of hybrid dynamic and even pure electrical one has been prevailing by now as an important symbol of modern industrial innovation. The new and high technology will grasp our each respect where it affords us high efficiency, convenience, security & satisfaction like AI (Artificial Intelligence) products. The new high technology will be satisfactory to every one of us since it has performance with convenience and security. Creating industrial innovation is to include research, development, manufacture with new convenient and prompt software and hardware for making new functional technology. In this paper the third industry innovation has been searched for trying to look for the intrinsic factor amongst them. The renewable source may be able to be utilized and as a sustainable project it can suggest research and development sustainability. At last the low carbon and green resource must be developed continuously and forwards without having interval which can produce more broader future perspective for creating human being beneficiary.

Discussions

Recently the third industry reformation has prevailed in the whole world. There is many countries research and development continuously proceeded that works. The battery technology and

even storage station will be put forward to participate that kind of work. The renewable resource will have been occupying more significant position than ever. In this paper the relative status is being discussed in detail as follows. In autumn 2010, That European union development requirement had integrated above five pillars is able to be urgent. A European commission document exhibited that in 2010~2020 it needed 1,000 billion Euros to develop to upgrade electric grid so as to adapt to the renewable energy flow. That document shows that in Europe the infrastructure may be in deficit for competition of renewable energy and traditional energy. [1] Up to 2020, Europe union commission hoped that the green energy is able to produce 1/3 energy. That means that the electric grid has to pass through digitalizing and intelligent zing so that it can store intermittent renewable enough energy for satisfying ten thousand of the territorial energy producer. The third industrial revolution has the below five respects: (1) transforming into renewable resource; (2) transforming the every building into tiny electric generators in every continents; (3) In every building and infrastructure the hydrogen may be used for storing intermittent energy; (4) By using internet technologies the every continents electricity has been transformed into energy shared network whose principle is similar to internet. I.e. ten thousand buildings are able to generate small resource which is remained can be recycled by electric grid and also can be shared by each continent network; (5) the transporting tools has been transformed into plug-in and hydrogen fuel dynamic vehicles whose electricity is able to be in business through the shared electric grid among inter continents [2]. Prodi has been an economics professor who took up Italy premier twice. Meanwhile, he has been one of European respected politician. I said to him that we needed to invest as soon as possible, proceeded the research to store the renewable resource. Or we could not search the renewable source scale application. If there is not a certain storage we would meet the problem. Eight years later Bill Gates proposed again the problem. He thought that reliable storage technology will be key to sustainability development in future. The electric and public enterprise had complained that 15%~20% and the more proportion has been come from renewable resource the electric grid affordance had met the influence from weather which will make us to confront the situation of periodic outage and ration the power supply. Some perspective technology included in galvanic battery、wheel、condenser、pump etc.. I had searched that these different technologies and recently concluded that although I proposed that different storage methods since the hydrogen has bigger mobility it probably become the key to solving long time storage dielectric [3]. In 1969 Apollo manned lunar missions had been dominated by USA president and participated in designing by 100 universities and laboratories with twenty thousand factories to manufacture 700 million parts in the whole America whose participants attain 420 thousand people with total investment to be 24 billion dollars. Based on World Wide Web reports China Change 7 &8 will land in south western of luna called by Shackleton Crater since there is conserving water & ices used for human landing later and then build underground base. Tailor science management theory continuing and developing emphasizes on establishing mathematical modelling in order to rise the scientificity of decision and reduce subjective decision whose application has very big boundedness because many factors are not quantitative and some factors have not the necessity to spend much more manpower, time and financial resource. The General Electric Company president CEO Jack Welch said that if you have not entrepreneurial spirit due to owning your past achievement your life seems doom to like dinosaurs. So you have to improve all the time to inherit past essence as possible. If you may be able to insist in good thing twenty years ago it means to be a failure [4]. The small company such as airline environment company、Ecotere Company and Kulun technological company had proceeded to electric driven vehicle market while General Electric company、Simon electric company and Eaton electric group are prepared to be entry the chargeable station. The profit in 2013 would have enhanced from current 690 hundred thousand dollars to 1.3billion dollars rapidly. Up to 2030 the plug-in chargeable station and hydrogen energy fuel vehicle will attain dominant position. As predicted in 2040 the 75% light vehicle will have been occupied by electric vehicle. The green energy electric quantity with complete electric and fuel resource must have reached 4 times of American electric grid quantity. To use hydrogen energy resource as a renewable source storage dielectric feasibility has been proposed as strategy memories which has been announced at conference of Brussels. The researchable plan that has been passed by Commission of European Union has laid the foundation to proceed the hydrogen energy source economy later [5]. The artificial intelligence structures may have dominated in digital economy. It may have been dominated with artificial intelligent driving and intelligent spaces largely. Many creative investment structure presents that in near two years intelligent vehicles that have been focus on by industries and investments may have wide development space further [6]. The dietary habit with mainly eating beef have increased emitting methane, nitrous oxide and carbon dioxide [7]. On the other hand, the fossil fuel and Uranium has been used for generating electricity. The energy, food and fibre have become mainly provision to our lives. The climate changeability and energy security have challenged doubly [8]. New corporation and recruitment chance may have been brought out [9]. To enhance energy efficiency、construct renewable energy、improve power grid modern work and enhance the rechargeable battery technology of hybrid vehicle with plug-in electricity they have been dominated by us [10]. The photovoltaic battery panels may have integrated all kinds of technology to plan completely for prospering economic scheme [11]. Up to 2030, the rechargeable station and plug-in vehicle with

hydrogen fuel has been prevailing in world [12]. The plug-in vehicles had been manufactured in 2011. The USA government had invested 2.4 billion dollars so as to promote the new generation electric vehicles to market. Meanwhile, it had provided the tax preference of 7,500 dollars for purchasers to encourage purchasing them. The transformation from internal combustion engines to fuel electric battery vehicles would have become an important watershed in the world economic reformation [13]. Like American had said that it may be willing put the future into the current. The whole system has been interactive、integrative and seamless whose interaction has created new chance for relationship of multi businesses. The renewable energy systems establishment had initiated the third industrial revolution. That system combined with construction load and partially reserved with hydrogen formation through artificial intelligence grid distribution by plug-in connect, furthermore it has become zero discharge [14]. In September 2009 Daimler Corporation and seven other business partners had built fuel battery internet across Germany for preparing to input fuel batteries station internet as transportation tools which are Baden energy group, Linde Company, Austria Petroleum Company Shell oil company、Total Oil Company, Waterford Energy Company and national hydrogen energy & Fuel batteries organization. The vehicles with the clean, non-noise & artificial intelligence are available. It had connected interaction net with flattening、decentralization & establishment of cooperatives. The reliable battery technology will be searched and carried out in Ternary Lithium Battery and Lithium Iron Phosphate Battery in new source vehicles recently taken into account the Chinese pure electric vehicles dynamic. Overview, the renewable storage station may be suggested to establish more for the sake of supporting much more demands come from the pure electriç hydrogen vehicle and hybrid one. The hydrogen fuel may become prevailing one tendency for recycling that kind of vehicle transportation where the related components and designs is prepared from now on for utilizing this sustainable programme. The relationship between manufacturer and university will be aligned in advance in order to train new generation engineers for enterprising that project with researching and developing departments.

Conclusions

The new renewable green energy has been dominant recently upon establishing low carbon products like green hybrid vehiclę pure vehiclę hydrogen vehicle and green electricity generator for our environmental reservation and its maintenance. The rechargeable station with fuel and electricity will be prevailed in recent future. Exploring moon as a significant plan will be continuously developed and searched. Scientific management will wield its effectiveness in managing products and mathematical modelling regressive equation and its prediction. The reliable battery technology will be searched and carried out in Ternary Lithium Battery and Lithium Iron Phosphate Battery in new source vehicles recently taken into account Chinese pure electric vehicles dynamic. We may be considering that the battery technologically innovative status is to be supposed better than recent one.

References

[1] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press, 2012; 32.
[2] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press, 2012; 44.
[3] Furong Cao. Modern Management. Economic Science Press, 2014; 30.
[4] Furong Cao. Modern Management. Economic Science Press, 2014; 31.
[5] Jeremy Rifkin, The third Industrial Revolution. China CITIC Press, 2012; 46.
[6] Thema investments, WeChat. 2023.
[7] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press. 2012; 82.
[8] Rifkin J. The third Industrial Revolution. China CITIC Press. 2012; 28, 85.
[9] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press. 2012; 28.
[10] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press. 2012; 29.
[11] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press. 2012; 57.
[12] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press. 2012; 56.
[13] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press. 2012; 58.
[14] Jeremy Rifkin. The third Industrial Revolution. China CITIC Press. 2012; 59.