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Introduction:

In today's world, companies focus a lot of attention on organizational sustainability. Companies can operate within a business market using growth and opportunities as their target. Failing to create and implement viable strategies would pose significant challenges with the intention of ensuring long-term growth and sustainability. Davim (2012) states that various approaches are needed. Especially within larger organizations, strategic managers focus on planning and coordinating efforts. Plus, more features like decreased operating time, corporate social responsibility and a streamlined process. Effective plans for implementing practices are supposed to be created by organizations. To become a superior competitor in any business field. The case study reveals Big Green Tractor to be notable thanks to its status. Indonesia's involvement in the tractor manufacturing industry is believed to be derived from their existence. Declining growth due to overwhelming issues causes considerable problems for it. Big Green Tractor's continual streamlining necessitates significant research and development. Providing a clear understanding of the rationale behind practices in need of reform. In addition, causes needing reform due to low adherence should be addressed. This organization's dedication to environmental standards and norms is clearly stated. The case scenario depicts a situation. This report contains many suggestions meant to further the cause. This manifesto can address the current issues and concerns of Big Green Tractor. The report details efficient manufacturing methods to take advantage of at lower cost. Defects within the process can be reduced through various plans and practices. The report also details Big Green Tractor's manufacturing process. It's done this way to help contextualize the subject matter. In 2019, Big Green Tractor introduced many 21st century technological tools in their collection. The report also highlights environmentally friendly methods that may be considered in future research. The report provides an understanding of the company's challenges. Corporate social responsibilities provide significant help to the company. Defining the proper methods for eliminating chemical waste while maintaining industry standards. Other suggested methods of manufacturing are mentioned in the report.

Operational industrial streamline procedural guide for Big Green Tractor

Cost-efficient manufacturing process

The Big Green Tractor company has streamlined their manufacturing processes due to this reason. In order to meet the goals of an organization, cost efficiency can be a goal to attain. Procedures that follow this rationale can be considered for what they are. Additional information about them can be found below.

Reduction in material cost:

Outstanding options warrant astonishment thanks to their groundbreaking nature. Reducing the material cost helps Big Green Tractor become more affordable. Several studies have confirmed this. indicates the organization's significant dedication to acquiring high-quality materials with plenty leftover. The Big Green Tractor can use parts to manufacture tractors. negotiating costs are high thanks to effective negotiations with suppliers (Henriques, Pecas & Silva, 2013). Suppliers can request proposals from the end of a strategic manager. contract bids from the lowest-priced provider. This reveals that organizations use the lowest bidder often. In order to find the same parts and materials, many companies need to consider many suppliers. reduce the price of the material so a purchase can be compelled. This way, with less material needed, low-cost tractors are manufactured.

Automation:

Suggesting Big Green Tractor to reduce manufacturing time with a streamlining approach is another option presented by the study. Automation helps companies save money and increase efficiency by replacing manual labor. Currently, many companies use automation to replace labor. software is available for processing all manufacturing related tasks. Big Green Tractor uses automation technologies for its manufacturing jobs. Gallman used robotic machines as a substitute for painting assembly lines in 2011. expected assembly of tractor units can help improve the production process and increase overall output. Automation technology reduces the company's labor needs. Plus, it adds to the overall efficiency of the business. By paying employees in monetary wages, expenses can be reduced.

Implementing lean manufacture:

Big Green Tractor takes into consideration practices of lean manufacturing to reduce their manufacturing costs. This includes removing low-value and unessential processes from their plant, since these would reduce the overall cost (Lee, Speight & Loyalka, 2014). Big Green Tractor can reduce

expenses by focusing on the most important parts of their production process. This allows them to reduce costs without having to change anything.

Selling scrap to vendors:

Big Green Tractor frequently employ the practice of cost-effective for use in Indonesia's business market. Several research reports indicate this. departments manufacturing and production create a large amount of scrap. Discarded by the company as quantities are considered unnecessary and unimportant. Green Tractor may look at how they earn surplus scrap through sales. the organization needs to produce tractors for the relevant vendors. This can be accomplished through the use of designated manufacturers. Find new buyers through a team of dedicated sales personnel. Lowering the total manufacturing cost enables a greater degree of affordability. Big Green Tractor can increase profitability.

Reduction in energy consumption:

People often consider many aspects of their organizations when making major decisions. Increased energy consumption leads to a significant increase in overall organization energy usage. The cost of running the company's operational business processes. Big Green Corporation's production and manufacturing department boasts high operational costs. Tractor consumes large amounts of electricity and other sources of energy such as gasoline. on Davim, which uses gasoline, diesel, and many more (among other things) (2012). Solving new energy solutions such as wind and solar power is easy and convenient. It's much more cost-effective than traditional treatments.

Set priorities for ROI (Return over Investment):

Many people spend a lot of time performing one of the major daily tasks. prioritizing ROI by performing for Big Green Tractor achieves cost efficiency. The managers can use this information to decide the order and scores of their projects. different components and processes involved in manufacturing tractors. Assigned based on the importance of the task. making an investment requires a specific process. The process can be decided by the organization). In order to receive funding, the Speight & Loyalka foundation only invests in process creation, not material production. This way, the foundation avoids any unnecessary expenses. obsolete tractors with high returns on investment can be created. Having no finished produce harms, the company's yield.

Plans to minimize defects throughout the manufacturing process

Big Green Tractor planned to reduce defects found throughout the manufacturing process. It includes the following procedures.

Implementation of the quality management system:

Big Green Tractor's managers employ the phrase "Big Green Tractor". Required to develop and implement an efficient quality management system. A department responsible for ensuring all tractors are of the highest standards. manual and automated inspection processes of material should be created. regular meetings with employees in the manufacturing process are necessary to ensure that tractor production continues smoothly. Additionally, employees can easily transport the tractors made by them. This was demonstrated by Lee, Speight & Loyalka in 2014. Large Green Tractor assembly lines identify the most commonly reported defects. Proposals for addressing the defective state can be made alongside potential solutions. getting fewer meetings through increased quality and decreased probability. Defects are apparent in the machines. It's clear that the institutions that examine all manufactured vehicles and engines. A meeting's proper scheduling is helpful for addressing any flaws.

Audit of material acquired from suppliers:

Another highly regarded procedure that merits attention is the one shown above. suggested to Big Green Tractor to improve the quality of their products. auditing vendors and suppliers' material can be performed through. Regular audits of the organization's operations and procedures are required. various sources provide materials (Kiss, Bildea & Dimian, 2019). This way, spare parts and other unbroken materials must be examined to confirm the integrity of their acquisition. evaluating the issue itself. Additionally, there should be a constant drive to determine if the subject is appropriate. Any tractor issues with functionality are remedied with procured materials. Big Green Tractor produces sale, which is a commonly used product. the management could use audits to identify issues likely to occur. quality issues can be identified before the product is even shipped. defects are spotted and remedied during the manufacturing process.

Personalized training:

Companies regularly employ audits and other procedures as part of their routine. Defects in the manufacturing process can be minimized through training. With the Big Green Tractor exist forever. Manufacturing of tractors can be automated. Additionally, labor and employees working in the production process can be eliminated. Manual labor is part of the department's job description (Stefanidis & Stankiewicz, 2016). With supplemental training of a personal nature, employees' current abilities can be refined and enhanced. Estimates suggest that educational sessions lead to fewer injuries. Errors are necessary for minimizing the likelihood of defects caused by manual labor. To determine any gaps in their professional knowledge, organizations often use the services of resource managers and professionals. Employees work within the manufacturing schedule to provide personalized training. Session times accordingly.

Standardization:

Maximizing the prevalence of a deficiency is an amazing CREDIT: An incredible way to correct a problem is revealed in the original text. The Big Green Tractor's standard manufacturing process can be determined to be one of the following. Many studies prove that ISO 9001 standards apply to the production, manufacturing and assembly of goods in organizations (by Dimian Bildea & Kiss, 2019). Supplying these services to other entities is a significant part of most businesses' operations. Follow these standards to judge where the manufacturing process is headed. All established guidelines and regulations guarantee the growth of this organism. Defects are reduced in the production of Indonesia's tractors.

Use of 21st-century tools to create greener process

New inventions and tools became popular in the last century. These include cars, airplanes, computers and other technology. allowing Big Green Tractor to create greener processes with useful results. Discussed in this way, technologies address the following.

Process mass intensity calculator:

One of the noteworthy tools that can be employed in Big Increased mass intensity of a manufacturing process leads to green manufacturing. calculators efficiently determine a decrease in the need for materials. to create products inside production zones. Big Green Tractor often uses this accessory. declaring the necessity for so-called secondary materials like tractor components. indicating the need for investment according to the tool is what the analysis determined. specific purchases are organized via the PMI value by Sharma & Bandichhor, 2017. If the PMI value indicates a deficit, this would necessitate further action. the organization can change the specifications of tractors they purchase or decrease the purchase. buying less material leads to less. This is shown to be the case since it's called accordingly. the decline of harmful energy and materials through processing. Calculating the process mass intensity is necessary for proper understanding of the subject. suggesting Big Green Tractors creating more environmentally conscious methods in their production. Indonesia has manufacturing units made by many companies.

Robotics and software:

Robots were one of the most significant 21st century technologies. which businesses plan to manufacture using. This information derives from tools and software aren't limited to just one industry thanks to recent developments. the company's use of environmentally friendly systems is indicated by these. software and robotics can be effective at collecting data on carbon emissions. Based on the production plans drafted by Big Green Tractor (Couto, Plansky & Caglar, 2017). Smart software systems can suggest certain actions that a user can take to increase their efficiency. minimize the emission and in addition, new automation and robotic technologies reduce emissions. Big Green Tractor's green processes helped them achieve significant significance. the organization can solve their problems with a focus on the machines and assembly lines being used in production. for reducing waste management and implementing greener practices. Applications like smart software can measure processes like iron sheets being removed and many more. The use of robotics and software solutions may help Big Green Tractor achieve their goal of minimizing waste. present issues the characters currently face.

Reagent guides and solvent selection tools:

Additional tools are available for use beyond the scope of this project. Big Green Tractor will create more sustainable practices at their manufacturing plants. Reagent guides and select tools for solvents enhance research with a company. The company's development department measures the toxic strength of each new creation. chemical ingredients used in the production of tractor engines such as paints, acids, bases and more. by examining the data generated by the tools, one can choose which chemicals to add to the mix, which has the lowest environmental impact and least harmful effects on the body. people. This app includes tools such as solvent selection tools, a Process mass intensity calculator and a metric for calculating the intensity of a process. Software and robotics can be used by Big Green Tractor to create processes that are greener. existing in Indonesia.

Recommendations for environmental ways

Corporate social responsibility for Big Green Tractor

Big Green Tractor needs to reduce the time it takes to create products through streamlining their manufacturing processes. Creating and modifying corporate social responsibility is a goal that must be pursued. It's possible to make recommendations.

- **Purchase of energy-efficient machine:** The most noble tactic can be considered through its transcendent nature. The Big Green Tractor focuses on community service and corporate social responsibility. Replacing outdated technology with newer versions that use less energy is a good idea. making these kinds of purchases can significantly reduce revenue streams for the business. Big Green Tractor could benefit from purchasing this machinery. Corporate Social Responsibility and Image are important to the targeted business market. New machines may require fewer resources to operate due to more fuel-efficient new engines and other machines, as Caglar, the 2017 release, shows. international agencies and the Indonesian government set standards for emissions. Corporate social responsibility improves thanks to the fact that the group achieved this. An environmentally friendly approach can be implemented.
- **Electrification:** Big Green Tractor gained a significant advantage from harnessing Corporate social responsibility is linked to electrification. Findings from many studies agree that this is due to the popularity of corporations' products. Electricity reduces carbon emissions more than fossil fuels by a large margin. Organizations consider electrification one of the major reasons for pursuing their goals. Big Green Tractor offers lines for both production and operation (Sharma & Bandichhor,

2017) Replacing outdated and inefficient technologies with newer versions that use electricity is recommended. The company purchases electric vehicles for its employees to use. a section of the manufacturing plant that's large enough to necessitate a battery system. Ineffective practices can be alleviated by the use of locomotive vehicles with internal access. Big Green Tractor should consider CSR work, as it's part of the company's overall responsibilities. from a distance, changing the manufacturing process by eliminating machines and motor vehicles. providing electricity via the use of fossil fuels' energy.

- **Reduce carbon emissions and increase carbon sequestration:** Corporate social responsibility provides guidelines for how businesses should interact with their community. Big Green Tractor necessitates this work considering the high demand for its services. reducing carbon emissions from manufacturing and production. Various plans can be created with a keen focus on reducing plants. Indonesia's manufacturing plant compounds appear in the carbon emissions that they produce. Achieving yearly goals will improve the overall quality of the project. The company's environmental sustainability demands many methods. Considering new machines and technology replace older ones is considered. In a pinch, high-octane petroleum can be used in place of regular gasoline. More environmentally friendly production plants are created as a result of this decision. Big Green Tractor's time-consuming carbon reduction process is the reason it's to help keep yearly progress in the same direction, setting milestones is necessary.
- **Working with agencies together:** Big Green Tractor often works with other environmental protection agencies at home and abroad to create and implement their corporate social responsibility strategies. They'll follow the guidelines, regulations and norms set by these agencies in order to audit their current carbon emissions levels. This allows them to change their existing protocols based on the results of these audits (Dimian, Bildea & Kiss, 2019). By working this way, they can increase their chances of success. By creating tractors and streamlining the assembly process with creative solutions, people revolutionized production. Working with these agencies can also help reduce legal and regulatory issues Big Green Tractor currently has obligations in Indonesia that they must deal with. With the intention of creating international alliances, increasing carbon offsetting methods are necessary. purchasing fuel-efficient machines, hooking up to electricity or releasing emissions can all be considered big in scope. Green Tractor champions corporate social responsibility every year.

Industrial standards on disposal of chemical waste

Many organizations enforce specific guidelines and methods due to the nature of their industry. Big Green Tractor's standard procedures and strategies are represented by its strategic managers. in this manner.

Secure landfills:

Producing chemical waste necessitated methods of disposal. Big Green Tractor's plants are treasured. Any comparison to landfill is apt, as both are considered secure. gather and examine possible alternatives before presenting them to the group. This approach is typically used to showcase waste materials and chemicals. Supposed to be stored or contained in secure landfills by the law (Henriques, Pecas & Silva, 2013). The Indonesian government's landfill study reveals they have added several to their catalog. companies' products can be stored in these sites. Still employed with slight variation in the future.



This design for a landfill typically appears in the common structure. The Big Green Tractor can be used to transport containers for chemical waste. A study shows that it can be used for approximately 900 loads. Certain waste can be placed in secure containers underground. The government sets standards for what people can use. These standards are created for a specific purpose. A specialized impermeable cap must be developed to safeguard the surrounding natural environment from hazardous chemical emissions that exist above ground. This cap must be placed over securely constructed landfills to prevent any contact with the subsurface water level and to provide comprehensive environmental protection to nearby residents (Lee, Speight & Loyalka, 2014).

Processing and treatment:

The management of industrial waste requires special treatment techniques. Several studies into industrial waste management show that some chemicals can't be discharged into bodies of water. These include certain alkalis and acids. Big Green Tractor is required to consider strategies for handling harmful chemicals when generating waste materials (Davim, 2012). This includes materials containing carcinogens that can't be dumped in the ground. Chemicals are altered so they have less harmful effects. used in conjunction with other materials or chemicals to react. Organizations can increase their expenses thanks to their activities. Big Green Tractor's increased corporate social responsibility results from this activity. the government grants the organization fewer legal and regulatory obligations as a result of the move. these non-profits work for social justice in Indonesia.

Recycle:

Additional solid waste management achievements include the creation of this project. Case studies have found Big Green Tractor to be recycled material. The company cannot use the waste chemicals because they are useless. They must recycle them so they're usable. Reusing chemicals through waste can be effective (as per Lee, Speight and Loyalka, 2014). Big Green may reduce their expenses thanks to recycling practices. Future tractor purchase includes the same chemicals. Considering these standards, the organization deals with recycling of chemicals through established protocols. Certain chemicals require special permission from the government before they can be used. Any organization breaking its protocols risks the safety of its members. The health of employees and workers can be negatively impacted.

Green alternatives to the traditional manufacturing process

Today, many companies use environmentally conscious alternatives to traditional manufacturing processes. which Big Green Tractor recommends. They're considered an alternative to the original. This is how it's referred to.

Embracement of green energy:

It's necessary for Big Green Tractor to update their outdated manufacturing process in order to be feasible as an option. Many different sources of green energy exist, including wind, geothermal, solar and more. Big Green Tractor doesn't need to spend a lot of money on energy thanks to these renewable products being developed from everlasting sources of energy. These sources are also affordable since they're developed from non-renewable sources (Sharma & Bandichhor, 2017).

Indonesia boasts copious green energy due to the fact that it has capital. increases the efficacy of the national government's international policies. provided by the manufacturing plant of the organization. emphasize the importance of harnessing this energy in order to achieve sustainability. It also excels at cost-effectiveness while operating in the business market.

Biodegradable material:

The Big Green Tractor focuses on using biodegradable material during the manufacturing process. This is because researchers found out that suppliers acquired by the organizations come in plastic packaging that can't be decomposed (Lee, Speight & Loyalka, 2014). When switching to a biodegradable supply chain, the organization may consider alternative suppliers of supplies wrapped in non-toxic materials. This would improve Big Green Tractor's supply chain and reduce their production of waste that causes health concerns for employees and nearby populations. societies.

HVAC system:

Air conditioning systems can be used to improve the process of businesses through the use of HVAC. This system is called Heating, Ventilation and Air Conditioning and allows companies to properly regulate the air inside the building. Air and temperature controls are crucial to maintaining the health of Big Green Tractor. Sharma and Bandichhor explain this in their 2017 article. When they lose energy, they experience many other complications that can diminish their ability to function. implementing an HVAC system can help a company achieve increased sustainability.

Facility upgrade:

Additionally, Big Green Tractor can improve their production facilities by upgrading their insulation. This can reduce the odds of lost energy— or power — which is amazing considering the organization's focus on tractor production (Davim, 2012). Several green alternatives to the traditional manufacturing process can be found by implementing this new system. This leads to the conclusion that Big Green Tractor can cut down on energy usage and reduce their need for power. The Big Green Tractor includes the farming process in question.

Conclusion

The problem of sustainability comes with many related concerns. Big Green Tractor costs a lot to run due to its high operating costs. It's committed to reducing these expenses. Minimizing operational expenses makes for a more cost-effective operation. This is why many strategic managers pay close attention to this aspect of their business. focusing on minimizing material costs through increased efficiency helps the organization achieve cost-effectiveness. many jobs involve selling scrap to vendors. This includes automated sales and more. so as to reduce flaws in the manufacturing process such as quality. The company implements a standardized training regimen, a standardized management system and

personalized audits. Additional tools that Big Green Tractor should consider using can be found. providing tools such as a solvent selection tool and a process mass intensity calculator the report also notes that many of the practices for corporate social responsibility come in groups. Big Green Tractor should consider the ramifications of its actions regarding carbon reductions. Add new machines that use less energy to your collection. Also consider purchasing any of the listed above. because the organization isn't burdened by extra-legal or administrative demands, they can easily avoid these issues. Big Green Tractor may utilize a number of industrial standards and protocols. These guidelines include the names of recycling programs and the locations of secure landfills. They also contain information about how to properly process and treat recycled materials. Consider green alternatives when considering alternatives. This can be done because certain green options are also considered parapsychological. Big Green Tractor's new process could replace traditional manufacturing. Alternatives to this scenario may include the consideration of renewable sources of energy such as solar. Also includes the use of air conditioning, wind and geothermal energy. Additional options include many more. Alternative green options include Big Green Tractor considering biodegradable materials.

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