

CHAPTER 5 ECONOMIC ANALYSIS OF RICE STRAW MANAGEMENT

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What are the economic uses of rice straw? Rice straw is used as feed for ruminants and for many other uses like manure, thatching, paper pulp, alcohol, mats, poultry litter and mushroom production. Besides the straw, rice also produces rice polish, rice bran and rice husk.

What is the residue of rice straw? Rice straw is a residual byproduct of rice production at harvest-time. The total bagasse of this residue depends on different factors such as diversities, soils and nutrient management and weather (Van Hung et al., 2020).

What are rice straws? Rice straw is produced as a byproduct of rice production at harvest. Rice straw is removed with the rice grains during harvest and it ends up being piled or spread out in the field depending if it was harvested manually or using machines. Ratio of straw to paddy ranges from 0.7-1.4 depending on the variety and growth.

How is rice straw harvested? At harvest, rice straw is piled or spread in the field depending on the harvesting methods, using stationary threshers or self-propelled combine harvesters, respectively. The amount of rice straw taken off the field depends mainly on the cutting height (i.e., height of the stubble left in the field).

What is the economic importance of rice? The economic significance of rice: For cooking various kinds of food products, flaked rice is often used. - Sake is a significant alcoholic beverage of Japan which is produced by the rice fermentation. - Bran is a significant by-product of the grain milling industry.

How does rice help the economy? On average, each rice farm contributes \$1 million to their local economy. The U.S. rice industry contributes more than \$34 billion to the U.S. economy annually and provides jobs for more than 125,000 people in the U.S.

How does rice straw affect the environment? After harvest, a considerable amount of straw is left behind, often disposed of through burning, releasing several pollutants into the environment. Carbon dioxide (CO₂) dominates at 70%, accompanied by methane (CH₄) at 0.66%, carbon monoxide (CO) at 7%, and nitrous oxide (N₂O) at 2.09%.

What do farmers do with rice straw? Each year, that rice yields 1.5 million tons of rice straw, a byproduct of harvested rice that must be removed to make way for the next season's crop. Traditionally, farmers burned their fields to dispose of the straw and make way for the next growing season.

What are the effects of rice straw incorporation? Rice straw contains about 80, 40, and 30% of the potassium (K), nitrogen (N), and phosphorus (P), respectively, taken up by rice and thus its incorporation can reduce the fertilizer requirement of the subsequent crop.

What are the properties of rice straws?

Can rice straw be recycled? Further, straw can be converted into compost without addition of any low C/N materials by merely heaping in a part of the paddy field. Field experiments have indicated that the amounts of nitrogen and potassium fertilisers for a rice crop can be reduced by the use of straw.

Can we eat rice straw? Rice straws are intended for one-time usage only. There are three sizes available (6mm, 8mm, and 12mm) to accommodate all cold drinks such as sodas, cocktails, and smoothies. Despite the fact that they are formed from edible components, these rice straws are not consumed (except by rice lovers).

Why do farmers burn rice straw? 80% of rice farmers locally used to do this to control weeds and pests and because crop yields seem to improve in the season immediately after burning. It is also attractive to farmers because it is far less time consuming and easier than other methods of dealing with farm waste.

Can rice straw decompose? Rice straw decomposition is an attractive solution to open-field burning but the traditional method has slow kinetics and takes 60-90 days to obtain mature compost. In this study, we propose to boost up the decomposition process by addition of a novel microbial consortium rich in lignocellulolytic microbes.

Is rice straw a waste? For this reason, the full amount of rice straw produced is commonly considered waste, and its removal from the ground is infrequent.

What do farmers do with rice straw? Each year, that rice yields 1.5 million tons of rice straw, a byproduct of harvested rice that must be removed to make way for the next season's crop. Traditionally, farmers burned their fields to dispose of the straw and make way for the next growing season.

What do farmers do with used straw? Straw...it's more than just the leftover from wheat harvest. This agricultural byproduct has a huge number of uses. While some are quite traditional like the bedding for animals and mulch in the garden, it can also be used as a quality cattle forage, heating fuel, ethanol production, or even as a building material.

What is the finished product of rice straw? and is a skilled by-product obtained during the cultivation of rice (global estimation of nearly 740–1111 million tons per year). In the present scenario, there has been extensive exploitation of rice straw for bioenergy production such as biodiesel, bioethanol, biobutanol, biohydrogen for various purposes.

What is the economic importance of rice husk? In direct rice husk combustion technology, combustion boilers are used in combination with steam turbines to produce the electricity and heat. The by-products are fly ash and bottom ash, which have an economic value and could be used in cement and/or brick manufacturing, construction of roads and embankments, etc.

What are the latest trends in electric traction? The modern trend is towards the use of d.c motors (both separately excited and d.c series motors) equipped with thyristor control. The operating voltages are 600V or 1,000V. Braking employed are mechanical, rheostatic and regenerative, Thyristorised converters provide accurate control and fast response.

What is the concept of electric traction? Introduction: By electric traction is meant locomotion in which the driving (or tractive) force is obtained from electric motors. It is used in electric trains, tramcars, trolley buses and diesel-electric vehicles etc.

Who invented electric traction? Frank Sprague, the engineer and inventor who is considered “The Father of Electric Traction,” is the subject of a new biography co-authored by William Middleton III, professor of sociology/anthropology at Rochester Institute of Technology.

What is the principle of modern traction motors? Traction motors are powered by electricity and generate the power to rotate the wheels of the train. The turning force produced by traction motors is transmitted to the wheels via the driving gear unit and axle. Traction motors are typically mounted in the trucks where the wheels are housed.

What is the major drawback of electric traction? High capital cost. Problem of supply failure. Additional equipment is required for achieving electric braking and control.

Which motor is most suitable for electric traction? The dc series motor is most suitable for traction services because it has the following properties: DC series motor develops high torque at low speeds, and low torque at high speeds, this is the essential requirement of a traction unit.

What is ideal electric traction? The requirements of ideal traction systems: The speed control of the traction motors should be easy. Vehicles should be able to run on any route, without interruption. Equipment required for traction systems should be minimum with high efficiency. It must be free from smoke, ash, dust, etc.

What are the two classes of electric traction systems? Electric-traction systems can be broadly divided into those using alternating current and those using direct current. With direct current, the most popular line voltages for overhead wire supply systems have been 1,500 and 3,000. Third-rail systems are predominantly in the 600–750-volt range.

What is the main advantage of electric traction over other methods? Advantages of electric traction systems: The maintenance and running costs are

comparatively low. The speed control of the electric motor is easy. Regenerative braking is possible so that the energy can be fed back to the supply system during the braking period.

What is the supply system for electric traction? Electric traction systems use a series of electrical power for moving any locomotive, tram, trolley or industrial train. The process of electrifying tracks come down to the supply system that powers the locomotive. Locomotives and industrial machines on rails can be supplied by an AC or DC composite power supply.

Are bullet trains electric? High speed trains run on electricity instead of diesel fuel. Because much of the world's electricity is still generated at fossil fuel burning power plants, high speed trains do contribute to carbon emissions, however the climate impact of one train is significantly less than that of many personal vehicles.

What device generates electricity for trains? Alternators and generators in locomotives convert mechanical energy from the prime mover to electrical energy to pull the train. They are the main device connected to the prime mover.

How does electric traction work? The system which use electrical power for traction system i.e. for railways, trams, trolleys, etc. is called electrical traction. The track electrification refers to the type of source supply system that is used while powering the electric locomotive systems. It can be AC or DC or a composite supply.

Are traction motors AC or DC? Traditionally, these were series-wound brushed DC motors, usually running on approximately 600 volts. The availability of high-powered semiconductors (thyristors and the IGBT) has now made practical the use of much simpler, higher-reliability AC induction motors known as asynchronous traction motors.

What is the difference between a traction motor and an electric motor? Different types of motors have variations in design, each with specific features such as power, speed, torque, size, and control precision. A traction motor is an electric motor optimized for drive or propulsion, where high torque and low speed are required.

What is the latest technology in electric vehicles? Solid-state batteries are slowly taking over the market as an alternative to lithium-ion batteries, offering higher energy density and increased safety. These batteries use solid electrolytes instead of polymer-based electrolytes, offering advantages like: Higher energy density, hence enabling longer driving ranges.

What is the future of traction motors? The global electric traction motor market is expected to rise from US\$ 18.5 billion in 2024 to US\$ 91.1 billion by 2034. From 2024 to 2034, the market is projected to surge at 17.3% CAGR.

What is current collecting system in electric traction? Electric vehicles that collect their current from an overhead line system use different forms of one- or two-arm pantograph collectors, bow collectors or trolley poles. The current collection device presses against the underside of the lowest wire of an overhead line system, which is called a contact wire.

Are electric vehicles trending? Electric car sales have taken off in the U.S. since 2020. About 1.6 million EVs were sold in the U.S. in 2023 — a 60% increase from the 1 million sold nationwide in 2022. The U.S. accounted for 9.7% of all new EV registrations worldwide in 2022.

SEO 2017: Learn Search Engine Optimization with Smart Internet Marketing Strategies

Q1: What are the latest SEO trends for 2017? A1: Mobile optimization, voice search, local SEO, and structured data markup are key trends to focus on.

Q2: How can I improve my website's visibility in search results? A2: Use relevant keywords, optimize page titles and meta descriptions, create high-quality content, and build backlinks to your website.

Q3: How does local SEO benefit businesses? A3: Local SEO helps businesses reach potential customers in their local area by optimizing their website and online presence for specific locations.

Q4: What is structured data markup? A4: Structured data markup is a way of organizing and presenting data on your website, helping search engines better

understand the content and display it in rich snippets.

Q5: How can I use smart internet marketing strategies to enhance my SEO?

A5: Utilize social media marketing, email marketing, and content marketing to build brand awareness, generate leads, and drive traffic to your website, which can all contribute to overall search engine optimization.

What are the characteristics of a Gothic short story? These elements include a dark setting, romance. supernatural forces, emotional extremes, anti-hero, female victims, visions and nightmares, madness, gloomy weather, and prophecies and curses.

What is Gothic ghost stories? Apparitions/Spectres/Ghosts: In the Gothic, supernatural figures tend to enter the lives of the characters and impinge upon and disturb the order of the natural world. These phantoms are sometimes ancestral and often engage the hero or heroine during a night journey.

How do you write a Gothic horror short story?

What was the first Gothic short story? Gothic fiction as a genre was first established with the publication of Horace Walpole's dark, foreboding *The Castle of Otranto* in 1764.

What defines a Gothic story? The term Gothic fiction refers to a style of writing that is characterized by elements of fear, horror, death, and gloom, as well as romantic elements, such as nature, individuality, and very high emotion. These emotions can include fear and suspense.

Why is gothic literature called Gothic? Called Gothic because its imaginative impulse was drawn from medieval buildings and ruins, such novels commonly used such settings as castles or monasteries equipped with subterranean passages, dark battlements, hidden panels, and trapdoors.

What makes Gothic scary? Characteristics. Gothic fiction is characterized by an environment of fear, the threat of supernatural events, and the intrusion of the past upon the present.

What is the difference between horror and Gothic stories? Since gothic literature is the only subgenre of horror that highly concentrates on emotions and love, it is very simple to differ it from the other subgenres because most of them focus on more common concepts like violent scenery, monsters, gore, therefore, Gothic Literature is one of the reasons that horror became ...

What is the structure of a gothic horror story? The spatial structure of the Gothic is often highly geometric and usually shows a claustral image. Embedding construction dominates its syntactic structure and consequently the Gothic more often than not demonstrates an ideological rather than mythological narrative.

How to end a Gothic short story? Conclude with a twist. Good gothic fiction stories often end with a twist that causes readers to wonder about the events and characters of your story. The reappearance of a someone who has died is one way to include a twist, but you can experiment with other types of twists as well.

What are the Gothic character types? The stock characters of Gothic fiction include tyrants, villains, bandits, maniacs, Byronic heroes, persecuted maidens, femmes fatales, monks, nuns, madwomen, magicians, vampires, werewolves, monsters, demons, angels, fallen angels, revenants, ghosts, perambulating skeletons, the Wandering Jew and the Devil himself.

Is Gothic a type of horror? Many would argue that gothic is a subgenre of horror, but as a reader and writer of gothic fiction, I would have to disagree. There is, of course, a blurring of the lines between the two, as is the case in most genres, but they are quite distinct in the reaction they instill in the reader.

What is a Gothic theme? Common Themes in the Gothic An Atmosphere of Mystery and Suspense: The characters typically are plagued by a threatening feeling, a fear enhanced by the unknown.

Are Gothic stories in first person? Voice and character – a strong voice, usually in first person, is a staple of Gothic fiction. Gothic main characters are usually curious, determined, and unable to rest until whatever is going on around them is uncovered.

What is romantic gothic literature? Typically, the lead of a Gothic Romance is a woman attempting to figure out what is right for her heart, and what society expects

of her. She will usually have a force, often an overprotective father, standing between her and her love, though she, or someone else, will find a way around him.

Who is the most famous Gothic author?

Who is the father of Gothic literature? The Master of Macabre, the Father of American Gothic, Detective Fiction, and the Short Story, Edgar Allan Poe was born on January 19, 1809 in Boston, Massachusetts.

What best defines Gothic? : of, relating to, or having the characteristics of a style of architecture developed in northern France and spreading through western Europe from the middle of the 12th century to the early 16th century that is characterized by the converging of weights and strains at isolated points upon slender vertical piers and ...

Why is Gothic literature so dark? Gothic writers want to convey their message through the story and the underlying meaning of the story – the theme. And the themes of gothic literature draw attention to the very dark side of humanity.

Who named Gothic? Giorgio Vasari (1511-1574 CE), the Italian artist and writer whose works are considered to form the basis of modern art historical study, retrospectively named the style pioneered by Suger as “Gothic,” which was meant to be derogatory.

What is Gothic history? The Gothic style of architecture and art originated in the Middle Ages and was prevalent in Europe between the mid-12th century and the 16th century. It was heavily ornate and conceptual, with its architecture characterised by high buildings, intricate aesthetics, cavernous spaces and expansive walls.

What makes a story Gothic? Gothic literature is a genre that emerged as one of the eeriest forms of Dark Romanticism in the late 1700s, a literary genre that emerged as a part of the larger Romanticism movement. Dark Romanticism is characterized by expressions of terror, gruesome narratives, supernatural elements, and dark, picturesque scenery.

What is the structure of a Gothic story? Often the plot itself is built around a mystery, such as unknown parentage, a disappearance, or some other inexplicable

event. People disappear or show up dead inexplicably. Elements 3, 4, and 5 below contribute to this atmosphere. In modern novels and filmmaking, the inexplicable events are often murders.

Is Harry Potter a gothic horror? However, the Gothic genre frequently overindulges on horrific images that are intended to provoke an affective response from the reader/viewer which vary from disgust and abjection to terror and horror. The Harry Potter novels are characterized by several Gothic elements and preoccupations.

What is the characteristic of Gothic? Gothic architecture is unique. The main characteristics of Gothic architecture include pointed arches, stained-glass windows, flying buttresses, ribbed vaults, and spires.

What characterizes the Gothic period? The five main characteristics that can be seen in architecture built in the Gothic era are: stained glass windows, high and pointed arches, ribbed vaults, flying buttresses, and ornate decorations.

What is the character of Gothic fiction? The stock characters of Gothic fiction include tyrants, villains, bandits, maniacs, Byronic heroes, persecuted maidens, femmes fatales, monks, nuns, madwomen, magicians, vampires, werewolves, monsters, demons, angels, fallen angels, revenants, ghosts, perambulating skeletons, the Wandering Jew and the Devil himself.

What are the characteristics of Gothic letters?

What is Gothic literature characterized by? Gothic fiction is characterized by an environment of fear, the threat of supernatural events, and the intrusion of the past upon the present.

How do you describe Gothic? The adjective gothic describes something that is characterized by mystery, horror, and gloom — especially in literature. Gothic literature combines the genres of romance and horror.

What are the 7 characteristics and elements of Gothic architecture? Seven key characteristics of Gothic architecture include pointed arches, ribbed vaults, flying buttresses, large stained glass windows, tall spires, intricate tracery, and elaborate sculptures.

What was the Gothic period characterized by? It is characterized by vertical proportions, pointed arches, external buttressing, and asymmetry. At great gothic cathedrals like Chartres in France and Salisbury in England, pointed arches allowed for heavy stone ceiling vaults despite the fact that the walls were pierced for huge stained-glass windows.

Why is it called gothic style? The term Gothic was coined by classicizing Italian writers of the Renaissance, who attributed the invention (and what to them was the nonclassical ugliness) of medieval architecture to the barbarian Gothic tribes that had destroyed the Roman Empire and its classical culture in the 5th century ce.

What is the origin of the word "gothic"?

How to write a short gothic story? Make one of your characters a ghost, vampire, werewolf, or some other supernatural creature. Or, you could use your setting to create an eerie atmosphere that suggests something paranormal is at work. A spooky castle or house can add a supernatural element to your story. Add children to your story.

What is the gothic writing style? What is Gothic literature? Emerging in Europe in the 18th century, Gothic literature grew out of the Romantic literary movement. It's a genre that places strong emphasis on intense emotion, pairing terror with pleasure, death with romance.

What is the purpose of gothic literature? There are many definitions of what gothic literature is, but all state that it is a story of fear and terror with emotional extremes and dark themes. It has regularly been used as a literary device to highlight social issues and injustices, which is possibly one reason for its enduring popularity.

What makes a character Gothic? Gothic characters Characters in Gothic stories often fit a particular type. This character is often rich, usually old and almost always isolated. They might be mysterious and misunderstood or evil and dangerous. One example is Count Dracula from the novel Dracula.

What are Gothic fonts? Sans-serif, or gothic, a typographical style without serif decorations. In typography, this is the meaning usually associated with the term

gothic type, for example Century Gothic. East Asian Gothic typeface, a Chinese, Japanese or Korean typographical style without serifs or analogous decorations.

What is a Gothic hero? Whether identified with the protagonist or the villain, the Gothic hero is a complex figure whose appearance and subsequent transformations reflect the shifts in social and cultural practices of a period and point to the dominant anxieties of the time.

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