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Reppie waste to energy pdf download torrent full free

This project effectively linking environmental protection with a generation of renewable energy for the country and process around 350,000 tonnes of waste annually. EEP External Relations Director Misikir Negash told ENA the project, which is fully financed by the government, will be inaugurated on Sunday. Africa's first ever waste to energy facility, the first of its kind commenced full construction in Addis Ababa in September 2014. Complementary technical systems Performance of this product is improved with another technology (eg, Compliance with regulations Product certifications and standards referenced by designer/manufacturer)The product complies with European Emission Standard EU 2000/76/EC Directive, however the certifying body has not been identified."The facility is built to follow EU emission standards and uses Flue Gas Treatment to take out emissions." Interview with manufacturer Evaluation methods Evaluation methods/protocols/guidelines referenced by designer or manufacturer You can use the form below to contribute a photo of this product.In context files & documents (0)Please let us know your experience in using this product through comments below. Academic research Academic research related to the product (e.g. published papers in peer-reviewed journals)Makarichi, L., Jutidamronphan, W., Techato, K., 2018. The evolution of waste-to-energy incineration: A review, Renewable and Sustainable Energy Reviews, Vol 91, pp812-21. The Reppie plant operates within the emissions standards of the European Union, also contributing to air pollution mitigation efforts. In Europe, waste-to-energy power plants are considerably popular, as nearly 25 percent of municipal waste is incinerated. France alone has 126 waste-to-energy plants, Germany 121 and Italy 40. The development of Reppie represents Phase I of a wider rollout program to develop multiple waste-to-energy plants across SSA's major cities.Constructing Africa's first major waste-to-energy facility in Addis Ababa, the home of the African Union (AU) and the United Nations Economic Commission for Africa (UNECA), fits perfectly with Ethiopia's Climate Resilient Green Economy. The Facility will eliminate over 80% of the Municipal Waste delivered to it, whilst at the same time maximizing energy recovery in order to deliver much-needed renewable power to the surrounding City. The project, which is located in Kofele Keranio Sub-city, provides employment opportunities for 1,300 employees and has been instrumental in promoting skill transfer in the sector. Subsidies noted. The project is the result of a private-public partnership of Ethiopia's government with a consortium of international companies, including Cambridge Industries (CIL) and China National Electric Engineering Co (CNEEC). image credits: Leo Lyons Photography News published on Climate Action ProgrammeConsult the source Africa's waste stream, with its low calorific value and high moisture content, is very different to that found in more developed markets. Together, these two generators have the capacity to generate 185,000,000 kWh. The combustion process will also sort metals for recycling. The Reppie thermal plant is being built in Ethiopia's capital, Addis Ababa, and when commissioned by the beginning of 2018, it will incinerate approximately 1,400 tonnes of waste. The plant has the capacity to treat 1,400 tonnes of waste everyday to generate steam that drives two 25 MW turbines. Its competitors are other power generation facilities, however these do not process waste. The Rebbie plant will generate approximately 185 gigawatt hours (GWh) per year through two 25 megawatt (MW) steam turbines.Through the combustion process, it will also sort valuable and finite metals for recycling. The project is a significant first for the African region, where waste management is an immense problem. Usually, waste ends up in vast landfill sites or is dumped releasing huge amounts of plastic and chemicals into the ecosystems. User Provision Model Where can the product be purchased/acquired by end users? Distribution to date Number of units that have been deployed, downloads or users to date"In the month of May, [the Reppie Waste-to-Energy plant] has taken 42,990,820 Kg of MSW and put 16,912,500 KWhr of electricity into the National Grid." Interview with manufacturer Fields marked are sourced values that have been evaluated by the manufacturer or a third party, all others are design specifications. SDG targeted United Nations Sustainable Development Goals (SDGs) targeted with this product/application/serviceGoal 7: Affordable and clean energy Target user(s) Target user/consumer base (country, income segment)Government, municipalities and general electricity users in Ethiopia Product Intellectual Property Open source/IP protected (note patent)/trade secret/other? Zerubabel Getachew, Ethiopia's deputy permanent representative to the United Nations in Nairobi commented: "The Reppie project is just one component of Ethiopia's broader strategy to address pollution and embrace renewable energy across all sectors of the economy". "We hope that Reppie will serve as a model for other countries in the region, and around the world", he added. This means that with a capacity of 110 megawatt thermal (MWh) the power plant will provide electricity to 30 percent of its household electricity needs. Waste-to-energy incineration plants process waste in a combustion chamber, with the resulting heat used to turn boiled water into steam to drive a turbine generator and produce electricity. May not be a comprehensive listing.The Reppie Waste-to-Energy facility is the only one of its kind in Africa. If you would like to subscribe to our weekly newsletter also, please click here. Thank you! Please confirm your subscription in the Email that we just sent you (don't forget to check your spam folder!). In waste-to-energy incineration plants, rubbish is burned in a combustion chamber and the resulting heat is used to boil water until it turns to steam, which drives a turbine generator that produces electricity. Reppie Waste-to-Energy in Ethiopia will support in reducing poverty conditions through increasing access to electricity, creating jobs and improving the environment to the benefit of human health, thus it will serve as a model for other countries in the region, and around the world. The facility is expected to produce 185GWh of electricity annually that will be siphoned to the Ethiopian national grid and will incinerate over 1,400 tons of waste every day. Such plants are considered a dual win, as not only they divert huge amounts of waste, which would otherwise end up in vast landfill sites by generating electricity- especially for regions with deficit in energy access but they also prevent the release of toxic chemicals into groundwater and reduce methane emissions, a harmful greenhouse gas (GHG) 25 times more climate change potent than carbon dioxide generated in landfills. Target region(s) Target region for distribution/implementation (listed by country if specified) Market suggested retail price Price per unit or service price per usage/terms (USD). Cookstoves and Wind-blocking skirts)Municipal waste collection services and access to a local municipal electrical grid must be considered. Competitive landscape Similar products available on the market. Output energy product The form of energy that is created by this system Average daily biogas production (m3/day) Description of waste source(s) Waste input requirements (kg per hour or day) Manufacturer-specified system capacity 1,400 tons of waste everyday and produce over 185,000,000 kWh of electricity to the Ethiopian national grid Description of other input requirements Description of other consumables required for energy production Other input requirements (amount per hour) Quantity of consumables required per hour System dimensions (m) Design specifications Component and Operation overview including power, portability, facility requirements, preventative maintenance and user training requirements Replacement components Availability of replacement components (in-country, by order, ...) Lifecycle Disposal and warranty Manufacturer specified performance targets Designer / Manufacturer specified targetsPlant is expected to supply 30% of Ethiopia's electricity needs by processing 1,400 tons of waste everyday and producing over 185,000,000 kWh. Vetted performance Findings of manufacturer evaluations or independent testing centers Testing organizations Independent lab, academic research centers, etc. This represents 80 percent of the city's waste generation, accounting for 400,000 tonnes per year. The Reppie waste-to-energy project built at the cost of 95 million USD on 37 hectares of land is to be inaugurated on Sunday, August 19/2018, according to Ethiopian Electric Power (EEP). For more than five decades, the Reppie dump site has been the only landfill in Addis Ababa. If you are Ethiopian or from Ethiopian origin and that you reside Belgium, or the Netherlands, Luxembourg, Estonia, Latvia or Lithuania, please feel free to register as a member of the diaspora on our website. CIL was created to design, construct and in some cases own extremely cost-competitive and scalable waste-to-energy facilities customised for Sub-Saharan Africa. The facility has a thermal capacity of 110MWh. Safety Potential hazards / risks related to operation of this productA failure to effectively treat flue gases produced in the process might contribute to localized air pollution. The project is jointly constructed by Cambridge Industries Ltd (CIL) and its partner China National Electric Engineering Co. (CNEEC). Product description Brand name and product descriptionReppie Waste-to-Energy uses municipal waste as a fuel for power generation.

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