

Torrefaction: Process Review

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Abstract

There is an urgent need for replacement of fossil fuels worldwide. Raw biomass has a low energy density, contains too much moisture, can rot, and it is hygroscopic. This paper presents a very prominent thermal technology that could overcome mentioned deficiencies of raw biomass. This technology is known as torrefaction. Torrefaction is mainly used to convert lignocellulosic materials into 'fuels' that can be used in power plants, combustion units, or gasifiers.

Keywords

torrefaction, biomass, biofuels, biochar

1 Introduction

Energy crisis is a consequence of great amount of burden on world fossil fuel supply and reserve. The growth of fossil fuels cost in the past, clearly designated that biomass-based fuels could be more competitive during peak demand times. Also, growing concern over climate change is another issue that has emphasized the environmental advantages of biomass application [1, 2].

Biomass can offer a wide range of suitable feedstock for energy, metallurgical, and chemical industries. Carbonization of biomass as a method for production of solid fuels has been present for many thousands of years. It delivered charcoal, the first appropriate solid fuel and a feedstock for iron extraction later. The process of torrefaction has been used for tea and coffee making. However, in recent years this process attracted the attention of power industries for the production of a coal substitute from biomass. Torrefaction is very often used as a pretreatment step, because it prepares biomass for further application. Torrefied biomass can be used on following ways: cofiring biomass with coal in large coal-fired power plant boilers, as a fuel in decentralized or residential heating system, as a convenient fuel for gasification, as a feedstock for chemical industries, and as a substitute for coke in blast furnace for reduction of carbon foot print [3].

1.1 Biomass explained

Any organic material, living or dead for a short period of time, derived from plants or animals is classified as biomass.

In plants, biomass is formed by conversion of carbon dioxide in the atmosphere into carbohydrates in the presence of sun's energy. Biological species will grow by consuming these botanical or other biological species adding to the biomass chain. In the presence of light from visible spectrum (blue and red range), green plants breakdown water to obtain electrons and protons, and use them to turn carbon dioxide into glucose and release oxygen as a waste product – process of photosynthesis [4]. Biomass definition that is most relevant is given by the United Nations Framework Convention on Climate Change [5]: "A non-fossilized and biodegradable organic material originating from plants, animals and micro-organisms. This shall also include products, by-products, residues and waste from agriculture, forestry and related industries as well as the non-fossilized and biodegradable organic fractions of industrial and municipal wastes".

Biomass is often used for energy production [6]. Most common sources of biomass are: *agricultural* (food grain, bagasse, corn stalks, straw, seed hulls, nutshells, and manure from cattle, poultry, and hogs), *forest* (trees, wood waste, wood and bark, sawdust, timber slash, and mill scrap), *municipal* (sewage sludge, refused-derived fuel, food waste, waste paper, and yard clippings), *energy crops* (poplars, willows, switchgrass, alfalfa, prairie bluestem, corn, and soybean, canola, and other plant oils), and *biological* (animal waste, aquatic species, and biological waste) [3].

Biomass composition is very diverse. So, wood and plant residues are composed of cellulose, hemicellulose,

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