Tajikistan biofuel storage

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Briquetting presents an alternative process to produce a uniform fuel with high energy density. Briquettes facilitates easy transportation, enables better handling and storage of biomass residues.

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The process starts with receiving and initial processing of biomass, followed by controlled heating in the torrefaction reactor to enhance energy density and storage properties. The torrefied biomass is then cooled and stored for future use.

PHT utilization as solid biofuel and more studies are needed (Hamawand et al., 2016). The aim of this research is to determine the properties of both pellets and briquettes produced from cotton field residues originated from Tajikistan and to evaluate their quality through solid biofuels" standards. MATERIALS AND METHODS

The results showed a good quality of apricot-based biofuels characterised by the high calorific value (NCV dry basis of 19.3 MJ kg-1), relatively low ash content (1.7%) and suitable values of the main chemical elements that fulfil the standard requirement on graded wooden biofuels.

Main results. Transitioning Tajikistan to 100% WWS for all energy purposes... o Keeps the grid stable 100% of the time. This is helped by the fact that, during cold storms, winds are stronger and wind/solar are complementary in nature (Figure 1); o Saves 5,300 lives from air pollution per year in 2050 in Tajikistan;

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Renewables are mainly used to generate electricity, though renewable technologies can also be used for heating in homes and buildings. Renewable biofuels are also an emerging technology solution to decarbonise parts of the transport sector.

o In rural areas of Tajikistan it is possible to use bioenergy (wood, dung, manure, brushwood) to receive heat and electricity. The use of biofuels has significant importance for the population of the household. o The use of bioenergy plants is relevant to large livestock farms and poultry farms, where in addition to energy

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