WHAT IS CLAIMED IS:

(1) A solid fuel which is formed from a mixture of wood pieces having a size of 1 to 50 mm (component A), paper pieces having a size of 1 to 50 mm (component B), a binder (component C-1), a form retaining agent (component C-2) and a caloric augmentation agent (component D), wherein the total amount of the components A and B is 15 to 45 parts by weight and the total amount of the components C-1, C-2 and D is 55 to 85 parts by weight based on 100 parts by weight of the mixture, the weight ratio of the component A to the component B is 20:80 to 80:20, and the mixture is compression molded, wherein the binder (component C-1) is starch derived from sea alga, the form retaining agent (component C-2) is natural rubber, and the caloric augmentation agent (component D) is a vegetable oil-containing substance.

(2) The solid fuel according to claim 1, wherein the total amount of the components C-1 and C-2 is 25 to 60 parts by weight based on 100 parts by weight of the mixture.

(3) The solid fuel according to claim 1, wherein the amount of the component D is 15 to 60 parts by weight based on 100 parts by weight of the mixture.

(4) The solid fuel according to claim 1, wherein the weight ratio of the component C-1 to the component C-2 is 6:4 to 8:2.

(5) The solid fuel according to claim 1, wherein the weight ratio of the component A to the component B is 25:75 to 75:25.

(6) The solid fuel according to claim 1 having an average size of 10 to 100 cm^3 each.

(7) The solid fuel according to claim 1 which is prismatic or cylindrical in shape.

(8) The solid fuel according to claim 1 having an apparent specific gravity of 0.3 to 0.6 g/cm^3.

(9) The solid fuel according to claim 1 having a calorific value of 20 to 30 MJ/kg.

(10) The solid fuel according to claim 1 which is used for thermal power generation.