

# Realization of a low carbon society through game changing technologies

## Biomass innovation by elucidating the principle of hybrid vigor

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### Summary :

High biomass F1 of sorghum is known as a typical vigorous hybrid crop. It's mechanism is yet unclear, and F1 seed production is laborious and costly.

In this project, we aimed to elucidate its genetic mechanism, and to create an inbred line reproducing the same biomass of the F1 hybrid. The inbred line can reduce 1/3 of the labor, cost and time required for seed production. Also, in combination with other approaches, it can put into good use 50% of the uncultivated land in Japan, and reduce 20% of desertification in the world by 2050.

