

## Biomass in coming sustainable society

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From viewpoint of material cyclings, we humans are aliens on this planet.

While this human behavior is the *raison d'être* of our own, it now disrupts the stability of the Earth system that is made up of finite materials.

Some consequences of it are the global environmental problems.

There were some people in the past who foresaw their realization and gave warnings to human societies. However, we are yet to face them with adequate seriousness they deserve.

With overwhelmingly excessive population, humans even today keep increasing the environmental load to the Earth system.

Therefore, if we would like to lessen even a bit the grave impact to human society that results from the destruction of material cyclings, we must first respect the rules that apply to heterotrophic organisms. In addition, we must apply our technological knowledge to the bioresources in order to yield maximal fruits from them.

In this presentation, I would like to discuss the subject of high utilization of biomass for constructing a cycling-centered human society.