<Biomass Energy Use Potential Analysis with GIS>

● Factory residues

To support the practical use of “factory residual system biomass” such as sugarcane residue (bagasse) from sugar cane factory, we enabled evaluation of plant economy by preparing resource availability data, price data, resource distribution data, and so on.

GIS enables us to perform spatial analysis for comprehensive assessment of “Biomass energy use” with considering environment and social impacts.

Graphical output also give straightforward idea to judge results.

● Farmland residues

To support the practical use of “farmland residual system biomass” such as rice husk and rice straw left on the farm, we prepared GIS data such as available amount of biomass data, infrastructure data, and energy demand data. With those GIS data, Spatial Analyst Extension enabled evaluation of potential factory site location.

● Plantation

To support the practical use of “plantation-derived biomass” such as Palm oil and Jatropha, we prepared GIS data such as weather data, terrain data, peat land areas data and old growth forest protected areas data. With those GIS data, Spatial Analyst Extension enabled creation of plantation development map, and evaluation of potential CPO and BDF factory location.
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