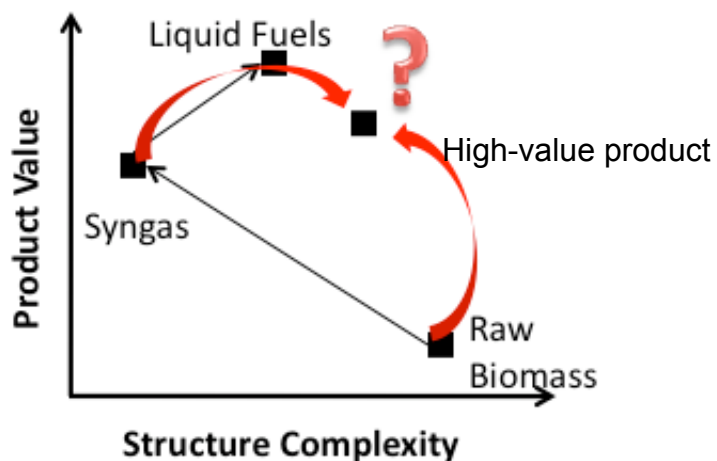


# Biomass gasification



Strategy to convert low-value, complex biomass directly into high value products.

## Objective:

- Develop mechanistic understanding of biomass decomposition under mild conditions.

## Approach:

- Explore biomass pyrolysis at low temperatures
- Catalytic enhancement of biomass gasification

## Impact:

- Convert biomass into high value-added chemical products.
- Use gases evolved during conversion to generate electricity via fuel cells.
- Provide microgrid power to third world communities.

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## Facilities and infrastructure:

- Transportation Energy Center (TEC)  
[www.engin.umich.edu/research/tec/](http://www.engin.umich.edu/research/tec/)