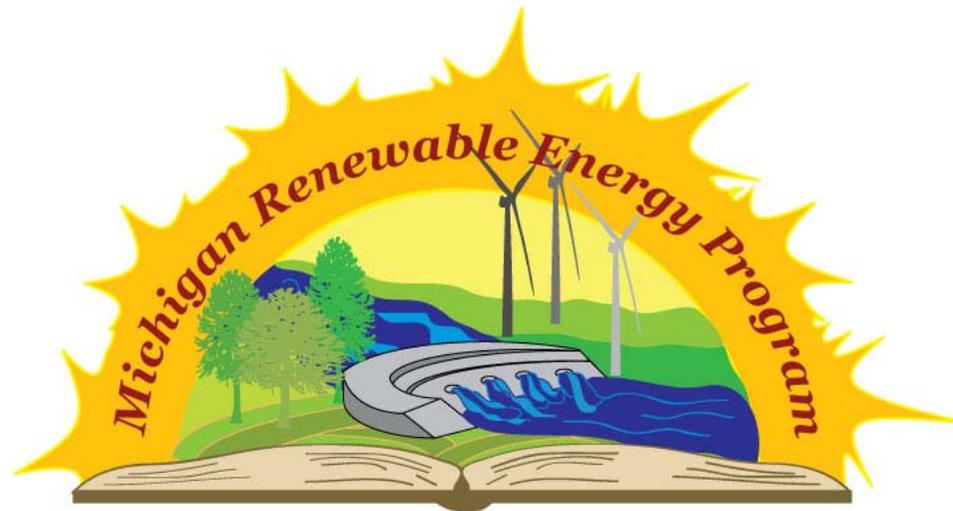


Bioenergy RPS Eligibility

Status of 2008 Public Act 295 Implementation

October 2010



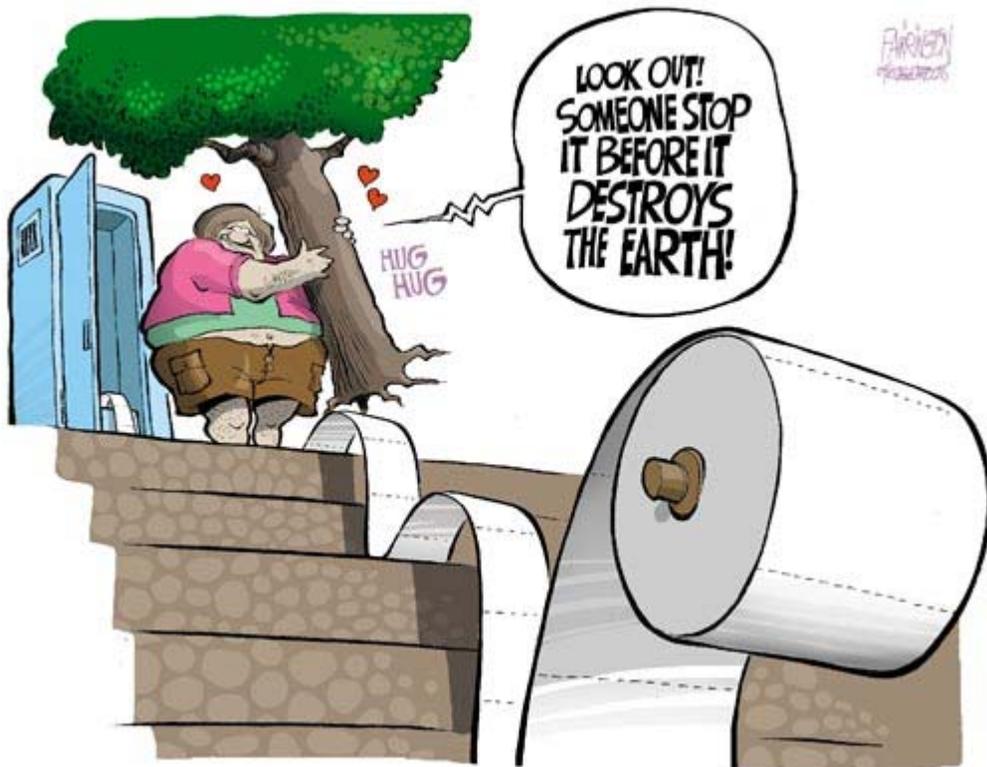
Michigan Public Service Commission

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Poop to Power



2008 PA 295 “Biomass” Definition

- “Biomass” means any organic matter that is not derived from fossil fuels, that can be converted to usable fuel for the production of energy, and that replenishes over a human, not a geological, time frame, including, but not limited to, all of the following:
 - (i) Agricultural crops and crop wastes.
 - (ii) Short-rotation energy crops.
 - (iii) Herbaceous plants.
 - (iv) Trees and wood, but only if derived from sustainably managed forests or procurement systems, as defined in section 261c of the management and budget act, 1984 PA 431, MCL 18.1261c.

Biomass Definition (2)

- (v) Paper and pulp products.
- •(vi) Precommercial wood thinning waste, brush, or yard waste.
- •(vii) Wood wastes and residues from the processing of wood products or paper.
- •(viii) Animal wastes.
- •(ix) Wastewater sludge or sewage.
- •(x) Aquatic plants.
- •(xi) Food production and processing waste.
- •(xii) Organic by-products from the production of biofuels.

Municipal Solid Waste (MSW)

- Electricity generated from MSW qualifies for consideration as renewable energy only under the provisions of Sec. 11(k)(iii). This provision of the Act qualifies electricity generated from **pre-existing municipal solid waste incinerators only**.
- •For purposes of this portion of the Act, MSW means comingled household or commercial waste, such as garbage trucks deliver to landfills or qualifying MSW incinerators.

Municipal Solid Waste (2)

- For purposes of this portion of the Act, MSW does not mean any material that has been separated out of the MSW stream for recycling or any other commercial purpose including energy recovery. Nor is MSW any material that could be eligible to enter the MSW stream, but is separated prior to becoming comingled in the MSW stream.

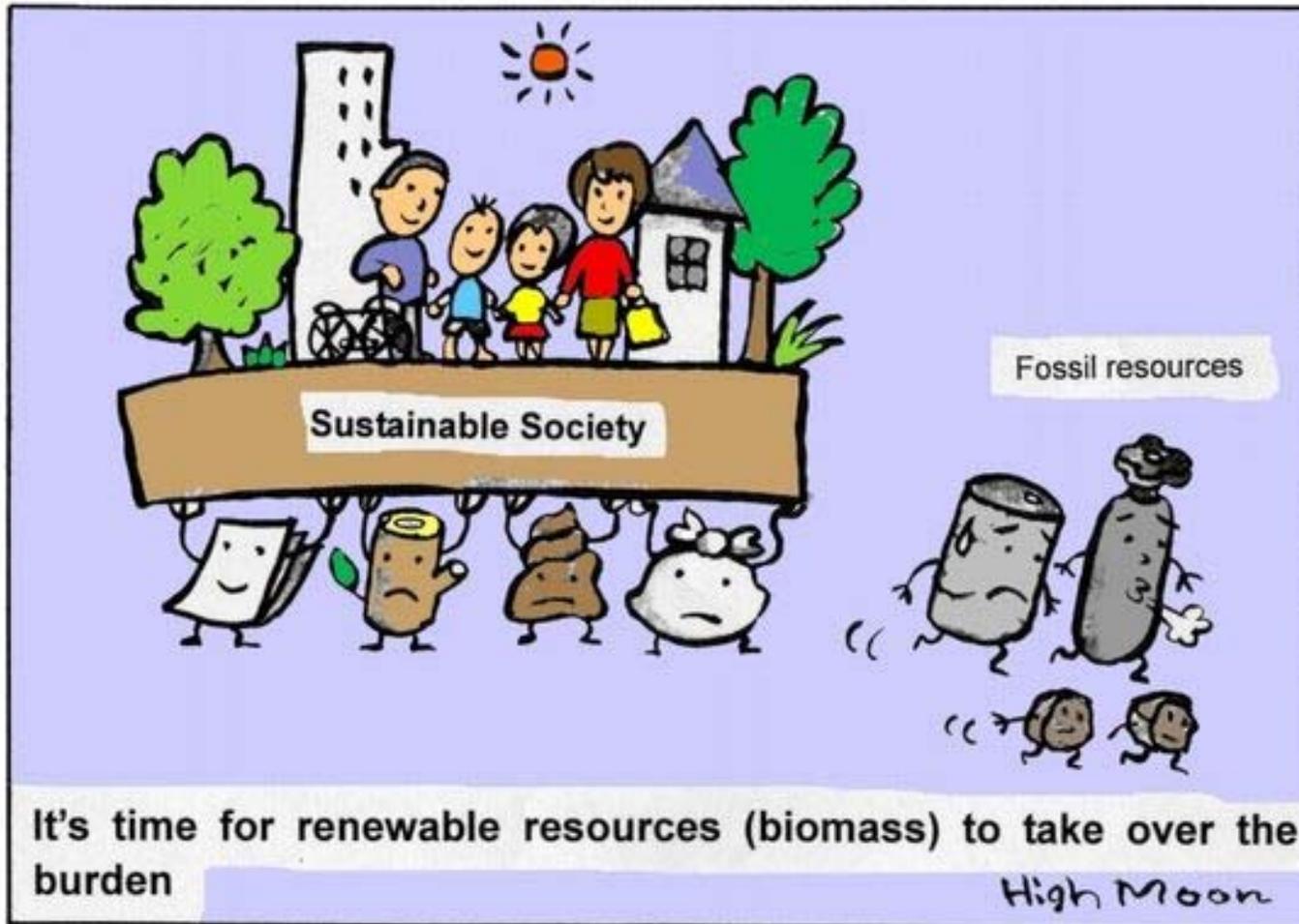
MSW Exclusions

- Any household, commercial, or industrial waste material that has never entered the MSW stream or has been separated out of the MSW stream for any commercial purpose might produce either renewable energy or advanced cleaner energy under the provisions of Act 295. For such material to generate renewable energy, the material must meet the definition of “biomass” in Section 11(i), as further defined in Section 3(f).

MSW Exclusions (2)

- For such material to generate advanced cleaner energy, the material must be converted into electricity using an advanced cleaner energy system as defined by Section 3(c).
- Advanced Cleaner Energy Credits (ACECs) can substitute for Renewable Energy Credits (RECs) only if: (a) from industrial cogeneration (thermal, bottoming cycle only); or (b) pre-approved for substitution by MPSC. (Section 27(6)).

Where are we at?



Note: Let's make full use of waste biomass (waste paper, animal excrement, waste foods, waste woods, sewage sludge).

Questions- Anyone?

