

Minnesota BioEnergy What's the Future?

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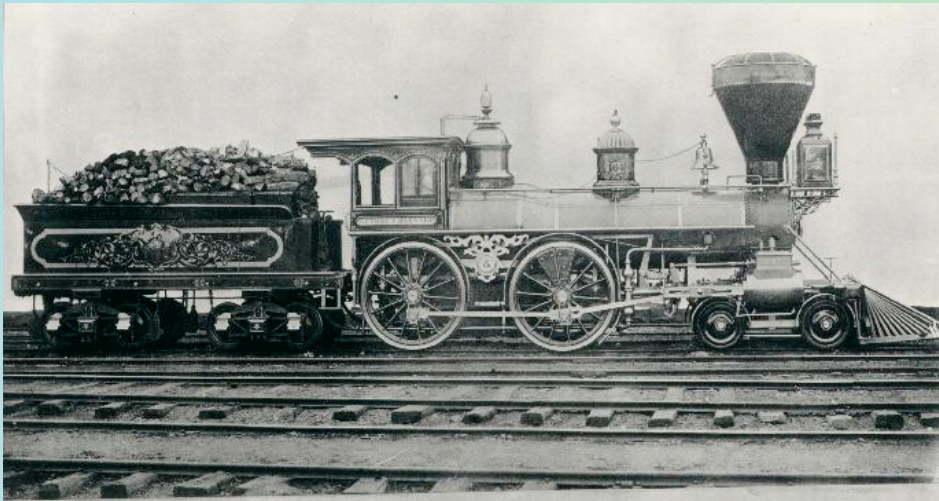
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Minnesota Pollution Control Agency

In the Beginning

- It was all about BioEnergy



Corn-based ethanol is a bridge to the future

- We had to start somewhere
- Public acceptance for non-petroleum based fuels was slow to catch on
- It is now time to aggressively move to next generation



Make Transportation Fuels More Sustainable

- Shift away from fossil fuels in ethanol production
 - Biomass, Bio-gas, co-generation
- Expand ethanol and biodiesel production with new feedstock
 - Other crops, crop waste, trees, algae, MSW
- Low Carbon Fuel Standards
- Hybrid and electric vehicles?

BioEnergy Projects



- Biomass power plants and combine heat and power
- Biogas production
- Role of Municipal Solid Waste