بخشی از ترجمه مقاله

عنوان فارسی مقاله:
لجستیک (اماپیش) زیست توده: بررسی ویژگی‌های مهم
مدل سازی بهینه سازی و روندهای جدید

عنوان انگلیسی مقاله:
Biomass logistics: A review of important features, optimization modeling and the new trends

توجه!
این فایل تنها قسمتی از ترجمه می‌باشد. برای تهیه مقاله ترجمه شده کامل
با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
6. Conclusions

This paper provided a comprehensive review of key features of biomass logistics, how different optimization models incorporated these features, and the new trends in biomass logistics optimization models. Logistics operations were categorized into biomass collection and harvesting, storage, transportation and pre-processing. The new trends in optimizing biomass logistics involve incorporating several practical features such as limited equipment availability, varying biomass deterioration rates, increase in traffic congestion, uncertainties in biomass supply, and emissions due to logistics operations into mathematical models. The literature on short-term biomass logistics optimization is nascent with many avenues for future research. Short-term planning requires detailed scheduling of logistics operations with practical constraints related to operational time window, limited equipment availability and inter-dependency between the operations. While most of the literature on multiple-objective biomass supply chain optimization focused on supply chain design, models for logistics planning should be developed to ensure sustainable management of the supply chain. Future models could incorporate social concerns related to traffic congestion due to biomass trucking in urban areas as social concerns could be crucial for internalization and operation of bio-conversion facilities. With many countries adopting different carbon regulatory policies, future models could be used to study the trade-off between economic and environmental objectives under different carbon emission policies. Models could also be developed for optimizing the fuel mix to be used for transporting biomass under different carbon regulatory policies.