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الغابات والطاقة

القضايا الرئيسية

ارتفاع استهلاك الطاقة وارتفاع أسعار الوقود الأحفوري، وتزايد انبعاثات غاز الدفيئة وكذلك تزايد القلق من الاعتماد على استيراد الطاقة، كلها عوامل تؤدي إلى البحث عن بدائل للاستغناء عن الوقود الأحفوري في إنتاج الطاقة. وقد أصبح الوقود البيولوجي في الوقت الحاضر أكبر مصدر للطاقة المتجددة التي ينتجها الكوكب الأرضي. فالأخشاب، ككتلة حيوية، تقدّم أعلى مستويات كفاءة استخدام الطاقة والكربون. وهذا المطبوع يستكشف العلاقة بين الغابات والطاقة. وهو ينظر في مساهمة الأخشاب، في الحاضر والمستقبل، في إنتاج الطاقة البيولوجية، وفي التأثيرات التي قد تظهر على الغابات بسبب تنمية محاصيل الوقود البيولوجي السائل. ويبدأ المطبوع باستعراض عام للعرض والطلب على الطاقة في العالم، مع إسقاطات حتى عام ٢٠٣٠. ثم ينتقل إلى النظر في مساهمة الطاقة الخشبية وذلك ضمن السياق العام لمناقشة مختلف محاصيل الطاقة البيولوجية واستخداماتها في إنتاج وقود بيولوجي من الجيل الأول والثاني. ويضع التحليل تقييماً للمفاضلة بين تطوير مختلف مصادر الطاقة البيولوجية ومخاطر تحويل الأراضي إلى هذه الاستخدامات. كما أنه يتناول مختلف قوى السوق والابتكارات التكنولوجية الجارية من أجل إنتاج الطاقة الخشبية. ويقدم المطبوع خيارات السياسات المطروحة والتوصيات من أجل تنمية الطاقة البيولوجية، ويؤكد على أهمية وضع تخطيط ورصد متكاملين لاستخدامات الأراضي، ونقل تكنولوجيا الطاقة الخشبية المتقدمة إلى البلدان النامية. وسيكون هذا المطبوع مفيداً لكل من المتخصصين والجمهور العام المهتم بمعرفة المزيد عن دور الغابات في إنتاج الطاقة.

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