



# Evaluating the Performances of Rural Energy Service Pathways and their Impacts on Rural Livelihoods (Volume 1)

*Mirco Gaul*

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Das Potential von Bioenergy im künftigen Energiemix und die Effizienz der Umwandlung und Nutzung wird kontrovers diskutiert, sowohl auf globaler Ebene als auch für Energiedienstleistungen in entlegenen ländlichen Gebieten. Die vorliegende Studie schlägt ein Analysemodell für ländliche Energienutzungspfade (RESPs) vor, das die Planung von Bioenergienutzung unterstützt und handhabbarer macht. Hierzu werden sowohl die Energie- und Kosteneffizienz von Energienutzungspfaden für Kochen, Beleuchtung und Antriebskraft verglichen als auch eine Vorabschätzung möglicher Auswirkungen auf die ländlichen Lebensgrundlagen durchgeführt. Das Modell wurde in einer Fallstudie auf der indonesischen Insel Sumbawa angewendet, auf der der Öltragende Wildstrauch *Jatropha Curcas L.* für Energiedienstleistungen genutzt wird. Die Ergebnisse unterscheiden sich stark für die untersuchten Nutzungspfade: Als Brennstoff zum Kochen, können Pflanzenöl oder Biogas bezüglich der Energie- und Kosteneffizienz nicht mit Feuerholz konkurrieren, während die negativen Gesundheitsauswirkungen durch Feinstaub für flüssige oder gasförmige Brennstoffe sprechen, solange keine Holzöfen mit niedrigen Emissionswerten verfügbar sind. Der Nutzung von Pflanzenöl und Biogas zum Beleuchten widersprechen sowohl die Ergebnisse der quantitativen als auch die der qualitativen Analyse. Das höchste Potential liegt im Bereich der Antriebskraft, wenn es gelingt, die Kapital-, Energie-, Arbeits- und Transportintensitäten zu optimieren und die institutionellen Herausforderungen zu bewältigen. In der Fallstudie zeigt eine dorfbasierte Erzeugung von Pflanzenöl und Biogas und die simultane Nutzung in einem Zweistoffmotor für die lokale Bereitstellung von Antriebskraft und Elektrizität das größte Potential. In jedem Fall bleibt die zentrale Frage, in wieweit ein ländlicher Energienutzungspfad mit lokalen Alternativen konkurrieren kann und gleichzeitig ausreichend profitabel ist, den beteiligten Bauern ein angemessenes Einkommen für ihren Arbeitsaufwand zu bieten.

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