

Barbara Hedeler

Zukunftsperspektiven der Elektromobilität

**Analyse der Ressourcen - Kritikalität und Umweltproblematiken von
Lithium-Ionen-Batterien**

Bachelorarbeit

Zukunftsperspektiven Elektromobilität Kritik Umweltproblematiken Lithium-Ionen-Batterien

Barbara Hedeler



Zukunftsperspektiven Elektromobilität Kritik und Umweltproblematiken Lithium-Ionen-Batterien:

Zukunftsperspektiven der Elektromobilität Barbara Hedeler, 2015-07-13 Die heutigen Formen von Mobilität stellen eine der größten Errungenschaften der Menschheit dar und sind besonders für das durch die Globalisierung geprägte Wirtschaftssystem unersetzlich. Ressourcenknappheit und Umweltbelastungen erfordern jedoch die Entwicklung neuer Mobilitätskonzepte. Mobilität steht damit vor einer technologischen Zeitenwende. Leitbild der Verkehrsplanung der Zukunft sind möglichst umweltschonende und ressourcensparende Technologien der Fortbewegung im privaten und wirtschaftlichen Sektor. Auch Deutschland stehen große Veränderungen bevor. Die bisher auf der Technologie eines Verbrennungsmotors basierende Fahrzeugflotte soll schrittweise durch verschiedene Formen der Elektromobilität ersetzt werden. So ist es das Ziel der Bundesregierung, eine Million Elektroautos bis 2020 auf deutschen Straßen rollen zu lassen. Durch die Elektrifizierung der Mobilität sollen bisherige Abhängigkeiten von Erdöl reduziert und Emissionen minimiert werden. Die Marktdurchdringung der Elektromobilität ist jedoch untrennbar mit Konsequenzen für den Ressourcenbedarf verbunden. Das neue System ist zwar von bisherigen Abhängigkeiten von Öl und nachwachsenden Rohstoffen unabhängig, es erzeugt jedoch auch grundlegende Abhängigkeiten in anderen Rohstoffsektoren. Elektrofahrzeuge besitzen neue ressourcenintensive Bauteile wie Elektromotoren und Hochleistungsbatterien, die auf der Verwendung verschiedener Hauptelemente und kritischer Ressourcen basieren. Besonders die Batterie stellt einen entscheidenden Faktor für die zukünftige Verbreitung der Elektromobilität dar. Gelingt es, Forschung und Entwicklung bisheriger technischer Defizite weiterzuentwickeln und zu verbessern, könnte die Elektromobilität eine enorme Marktdurchdringung erfahren. Die Vorgabe der Bundesregierung, eine Million Elektrofahrzeuge bis 2020 auf dem deutschen Markt durchzusetzen, hat demnach einige Auswirkungen auf die Rohstoffmärkte. Diese Ausgangssituation stellt die Thematik weiterer Fragestellungen im Rahmen dieser Bachelorarbeit dar. **Nachhaltigkeit in der**

Elektromobilität: Analyse der externen Folgen von Lithium-Ionen-Batterien Barbara Hedeler, 2015-09 Deutschland stehen große Veränderungen bevor. Die bisher auf der Technologie eines Verbrennungsmotors basierende Fahrzeugflotte soll schrittweise durch verschiedene Formen der Elektromobilität ersetzt werden. So ist es das Ziel der Bundesregierung, eine Million Elektroautos bis 2020 auf deutschen Straßen rollen zu lassen. Durch die Elektrifizierung der Mobilität sollen bisherige Abhängigkeiten von Erdöl reduziert und Emissionen minimiert werden. Die Marktdurchdringung der Elektromobilität ist jedoch untrennbar mit Konsequenzen für den Ressourcenbedarf verbunden. Das neue System ist zwar von bisherigen Abhängigkeiten von Öl und nachwachsenden Rohstoffen unabhängig, es erzeugt jedoch auch grundlegende Abhängigkeiten in anderen Rohstoffsektoren. Elektrofahrzeuge besitzen neue ressourcenintensive Bauteile wie Elektromotoren und Hochleistungsbatterien, die auf der Verwendung verschiedener Hauptelemente und kritischer Ressourcen basieren. Besonders die Batterie stellt einen entscheidenden Faktor für die zukünftige Verbreitung der Elektromobilität dar. Gelingt es, Forschung und Entwicklung bisheriger technischer Defizite weiterzuentwickeln und zu verbessern, könnte die Elektromobilität eine enorme

Marktdurchdringung erfahren Die Bewertung der Zukunftsperspektiven der Elektromobilität soll anhand der Kriterien Ressourcenkritikalität und Umweltproblematik ermittelt werden So wird die Ressourcenkritikalität anhand von drei Rohstoffkomponenten analysiert die für die Herstellung von Lithium Ionen Batterien für Elektrofahrzeuge relevant sind Dazu ist eine Bestandsaufnahme der Rohstoffmärkte durchzuführen Zudem erfolgt die weitergehende Analyse vor dem Hintergrund der politischen Rahmenbedingungen in Deutschland sodass eine weitergehende Beschränkung auf den Bezugsraum Deutschland erfolgt Für die drei gewählten Komponenten wird anhand eines eigens entwickelten Bewertungssystems eine umfassende Markt und Rohstoffanalyse durchgeführt die auch die Berücksichtigung der häufig vernachlässigten sozialen und ökologischen Dimensionen umfasst Neben der Erstellung einer umfassenden Analyse der gewählten Rohstoffe wird eine Hochrechnung des Rohstoffverbrauchs für den Bezugsraum Deutschland erstellt um den Rohstoffbedarf der Elektromobilität abschätzen und eine Aussage über die Rohstoffkritikalität und die zukünftige Rohstoffsicherheit abgeben zu können

Decoding **Zukunftsperspektiven Elektromobilität Kritikallt Umweltproblematiken Lithium Ionen Batterien**: Revealing the Captivating Potential of Verbal Expression

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