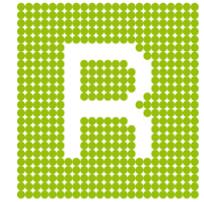
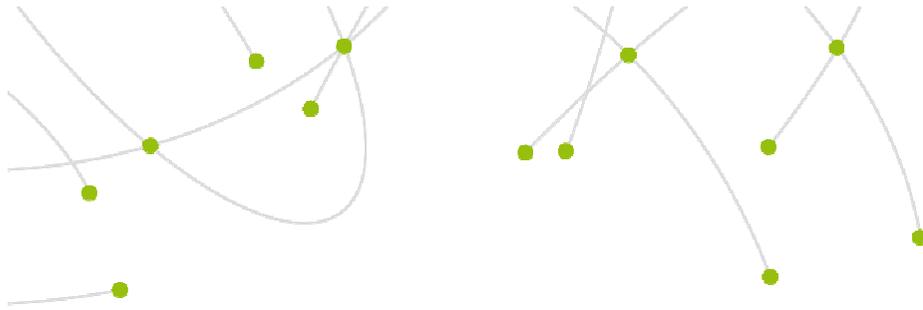


Energiewirtschaft im Umbruch

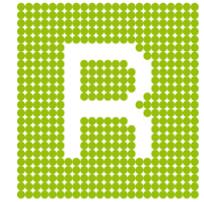
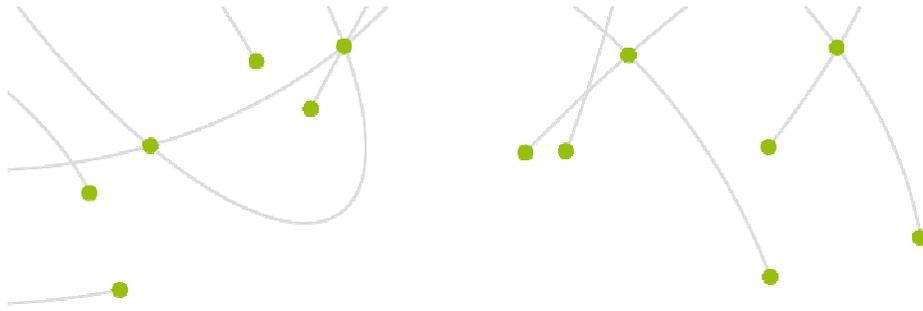
AUSGEWÄHLTE ASPEKTE EINES SICH VERÄNDERNDEN ENERGIEVERSORGUNGSSYSTEMS



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*„Wenn der Wind der Veränderung weht,
bauen die einen Mauern
und die anderen Windmühlen.“*

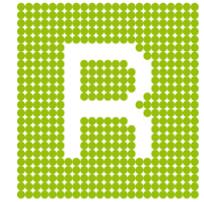
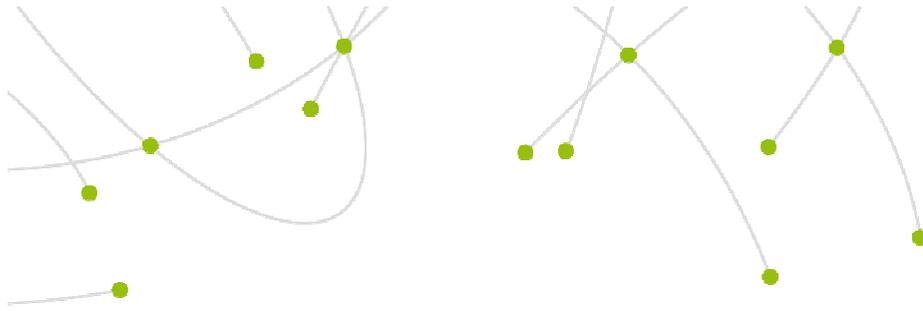
Chinesisches Sprichwort



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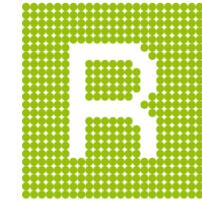
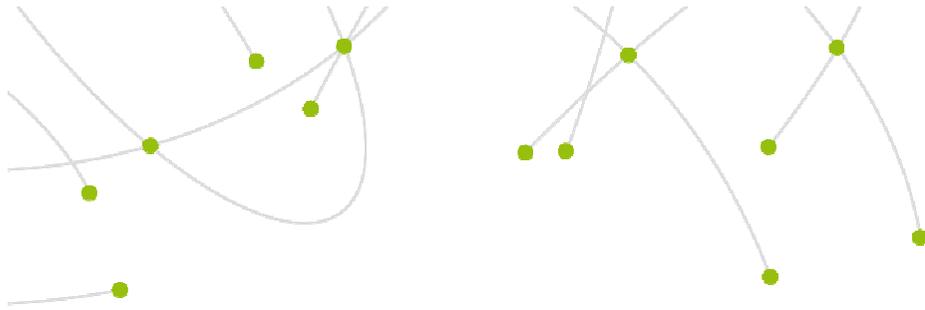
- 1 - Entwicklung Strombereitstellung
- 2 - Vom Monopol zur EDL
- 3 - Zukunftsausblick



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Agenda

- 1 - Entwicklung Strombereitstellung
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Entwicklung Österreich

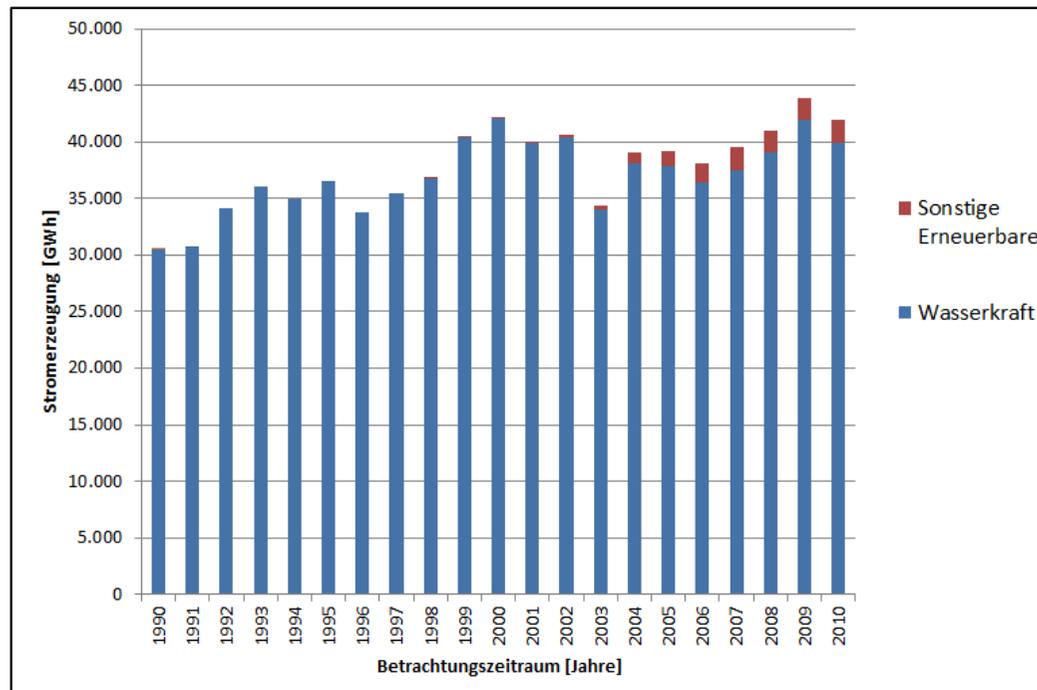
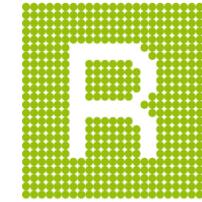
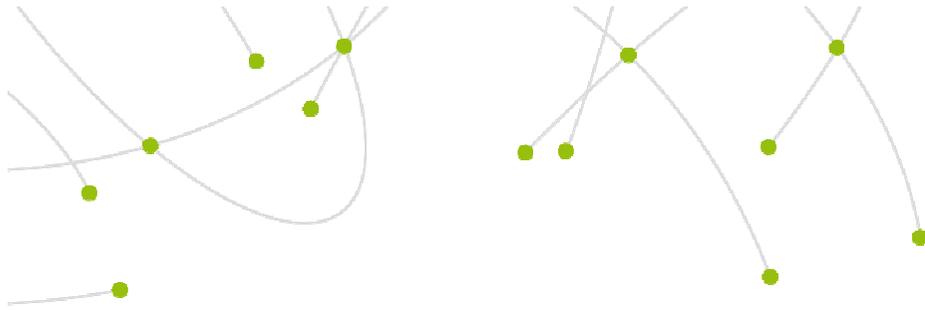


Abbildung 1: Entwicklung der Strombereitstellung aus erneuerbaren Energiequellen in Österreich nach Jahren (eigene Darstellung, Daten von www.e-control.at [27.01.2014])



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Entwicklung Deutschland

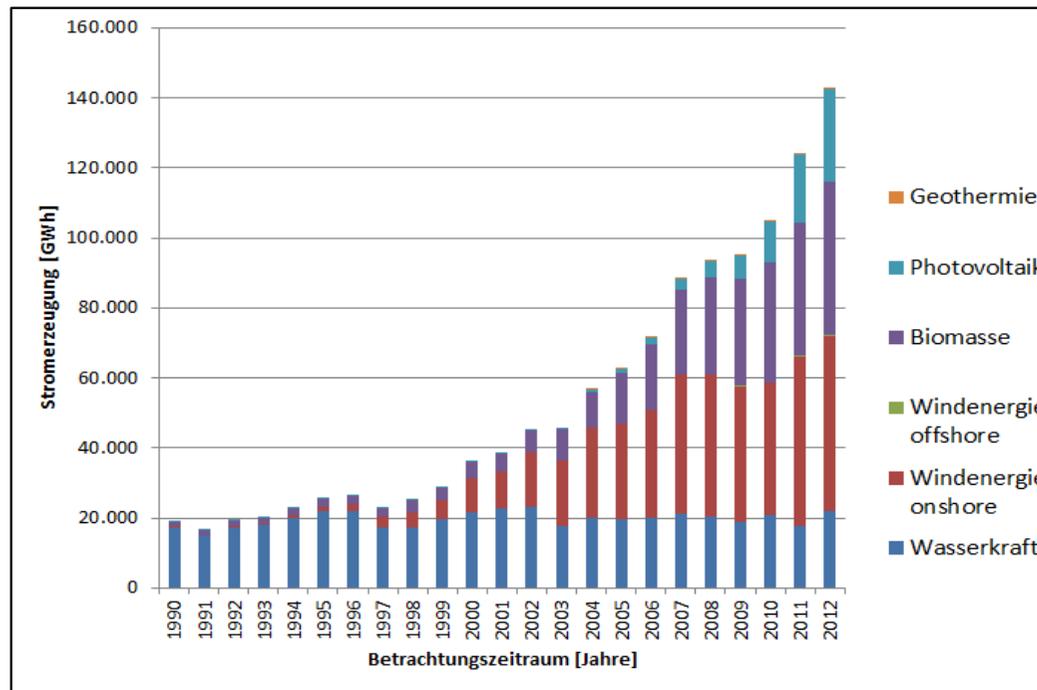
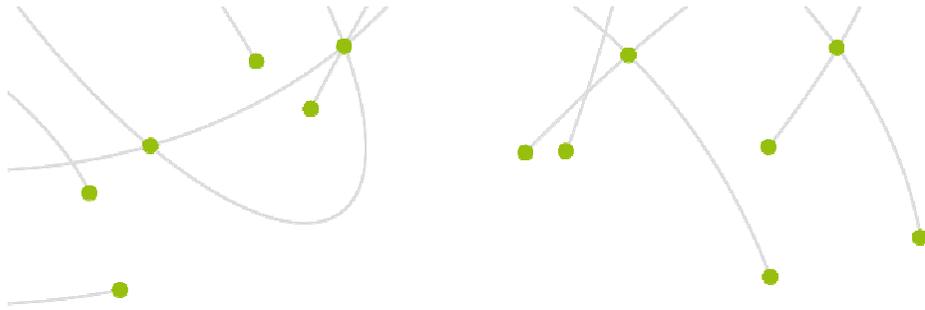
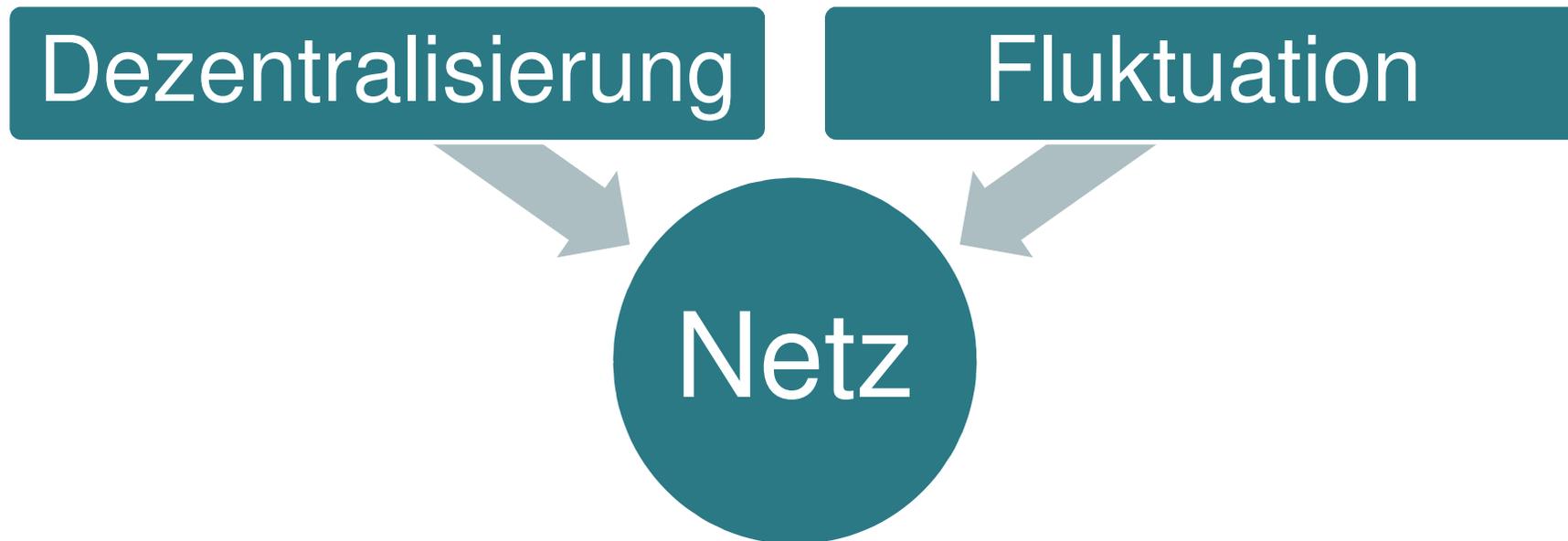
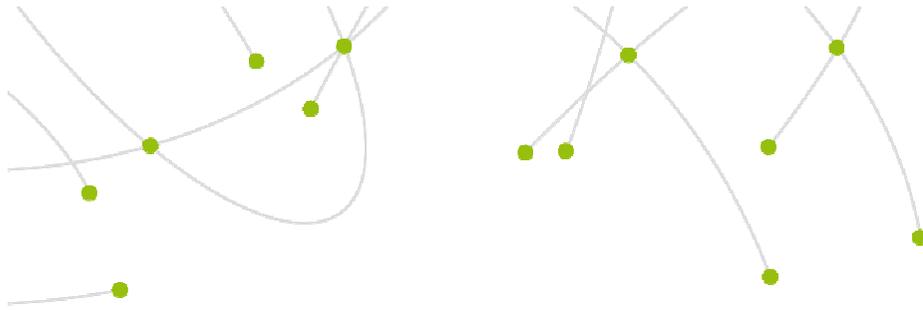


Abbildung 2: Entwicklung der Strombereitstellung aus erneuerbaren Energiequellen in Deutschland nach Jahren (eigene Darstellung, Daten aus BMU, Erneuerbare Energien in Zahlen, 2013, S. 18)

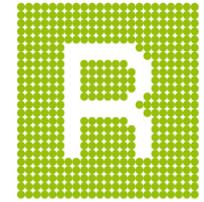


Auswirkungen Energiewende





Smart Grid



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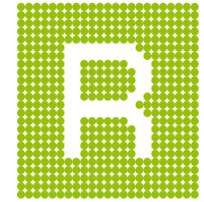
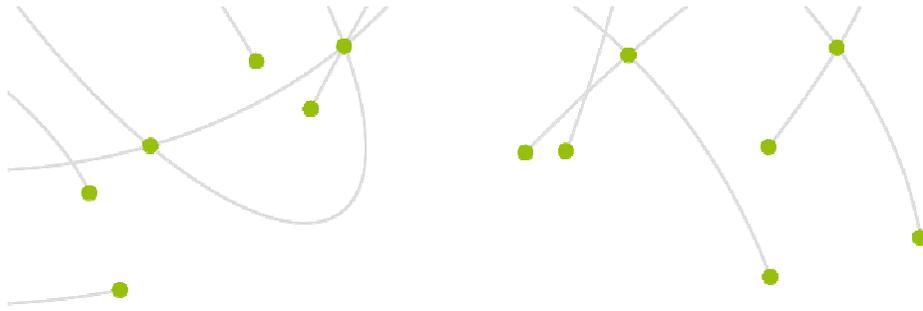
konv. Netz

Smart Grid

IT-Komponenten, Kommunikationstechnik, Messtechnik, Steuerungstechnik,
Regelungstechnik, Automatisierungstechnik

- Netzzustände in Echtzeit
- vorhandene Kapazitäten optimal nutzen

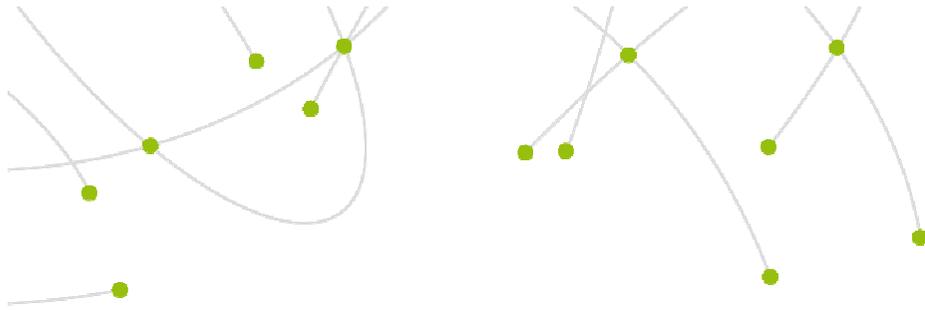
Kapazitäten



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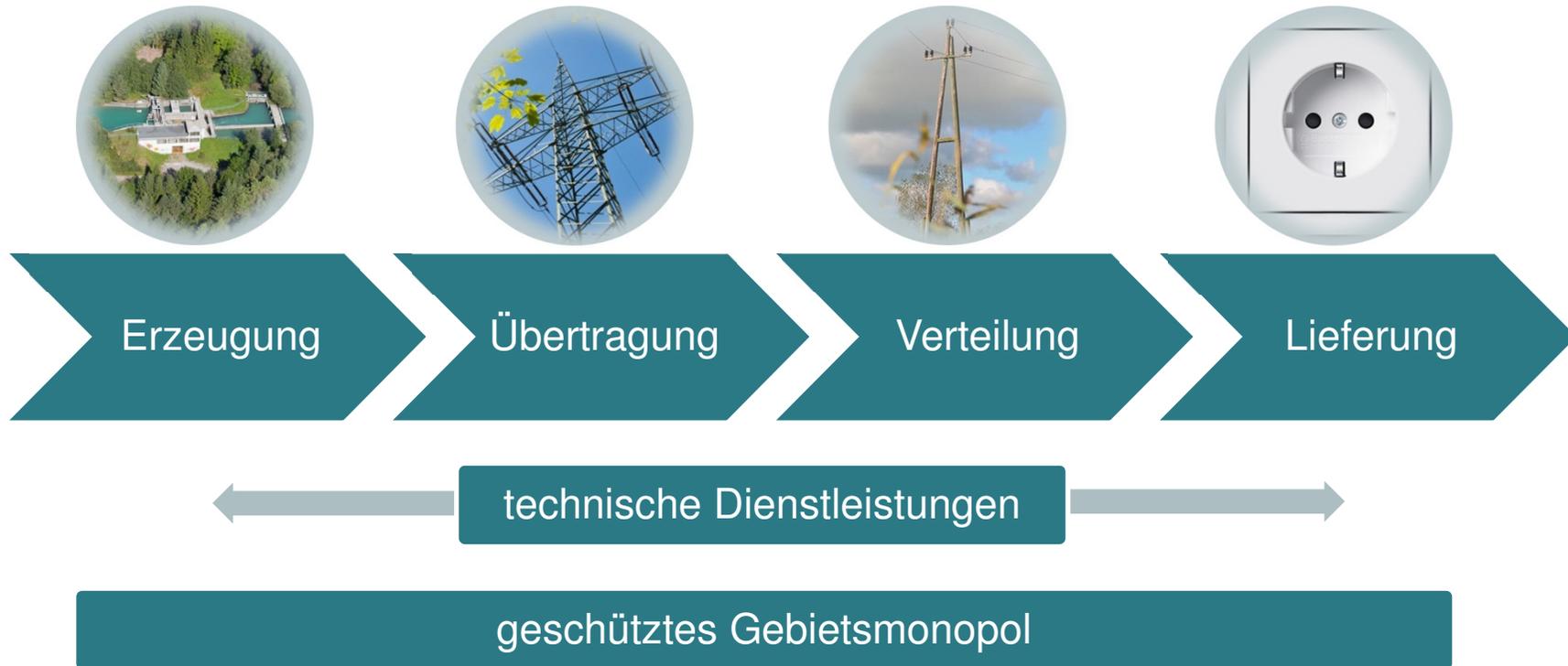
Agenda

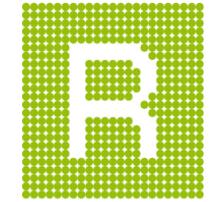
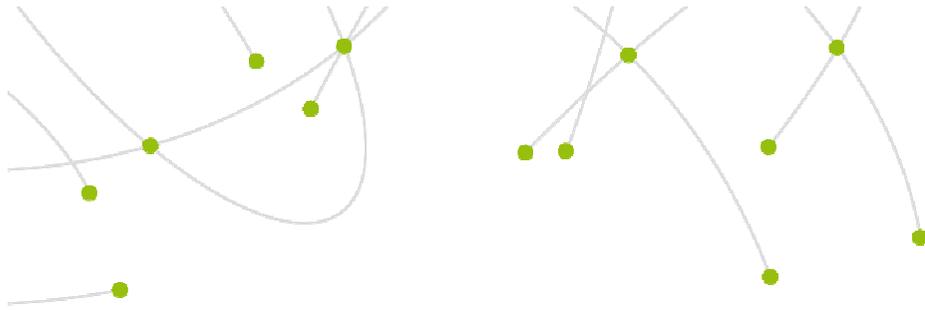
- 1 - Entwicklung Strombereitstellung
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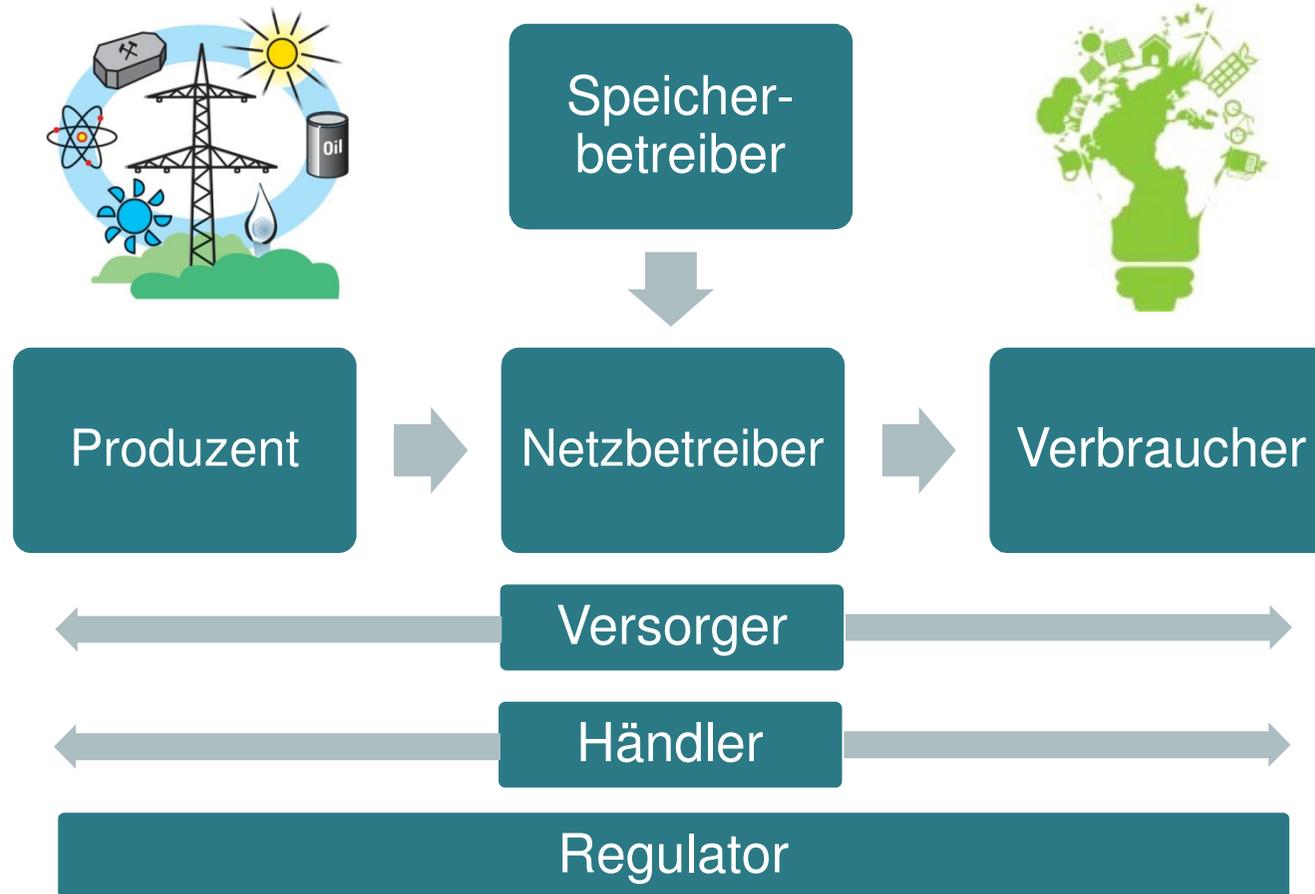
Klassische Wertschöpfungskette

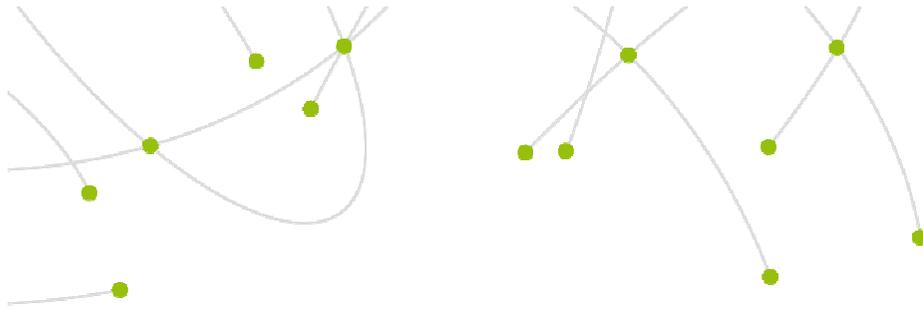




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Rollenverteilung Neu

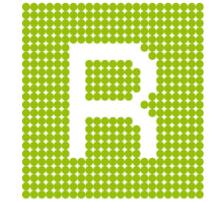
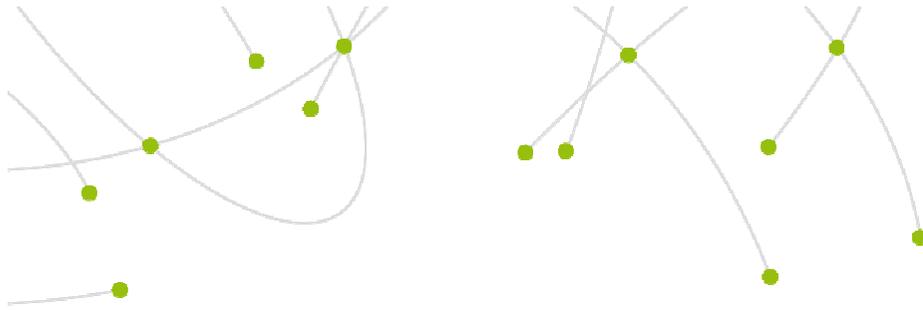




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Agenda

- 1 - Entwicklung Strombereitstellung
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Zukunftsausblick



(Dezentrale) Erzeugung

- Wasserkraft
- Photovoltaik
- Brennstoffzelle
- Biomasse



(Dezentrale) Speicherung

- Pumpspeicher
- Batterie
- Power to Gas



Intelligente Vernetzung

- Smart Meter
- Smart Home
- Smart Grid
- Smart Market



Energie- effizienz

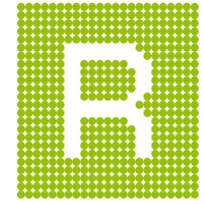
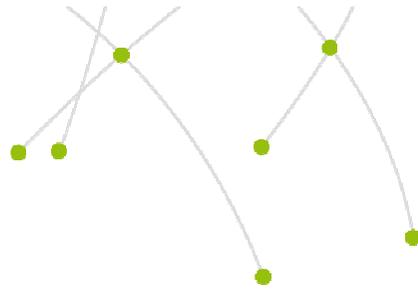
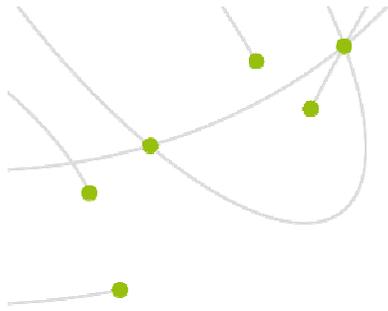
- Wärmepumpen
- Elektrogeräte
- Elektromobilität
- Contracting



Prosumer

- Interesse
- Generation Öko





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