

Reading List

MOOC Energiewende

Weeks	Title	Readings
Week 1	<p>History and overview</p> <ol style="list-style-type: none">1) Craig Morris (IASS): What is the Energiewende?2) Craig Morris (IASS): Milestones in the Energiewende3) Sybille Röhrkasten (IASS): Setting the Energiewende in an international context4) Sara Lingstädt (IASS): Why the energy transition?5) Pia Buschmann: 100% renewable energy regions	<p>Readings Week 1</p> <ul style="list-style-type: none">- Quitzow, R., Röhrkasten, S., Jänicke, M. (2016): The German Energy Transition in International Perspective. - IASS Study, March 2016. DOI: http://doi.org/10.2312/iass.2016.009- Steinbacher, K., & Pahle, M. (2015). Leadership by diffusion and the German Energiewende. PIK Discussion paper- The Energy of the Future: Fourth "Energy Transition" Monitoring Report — Summary (PDF). Berlin, Germany: Federal Ministry for Economic Affairs and Energy (BMWi). November 2015

<p>Week 2</p>	<p>Electricity</p> <ol style="list-style-type: none"> 1) Craig Morris (IASS): Reading Energy-Charts.de 2) Craig Morris (IASS): Why a German nuclear phaseout but not a coal phaseout? 3) Arne Jungjohann: Germany's coal conundrum 4) Dominik Schäuble (IASS): Efforts to reign in lignite 5) Daniela Setton (IASS): The politics of the coal clamp-down 	<p>Readings Week 2</p> <ul style="list-style-type: none"> - German coal conundrum - Energy charts - Wronski, R., Schäuble, D., Setton, D., Fiedler, S. (2016): Finanzielle Vorsorge im Braunkohlebereich: Optionen zur Sicherung der Braunkohlerückstellungen und zur Umsetzung des Verursacherprinzips, Berlin / Potsdam : Forum Ökologisch-Soziale Marktwirtschaft e.V. / IASS Potsdam Institute for Advanced Sustainability Studies e.V., 80 p. - Helgenberger, S. (2016): Consensus with Losers: Civic demand for rapid decarbonisation is revealing open lines of conflict in Germany's Energiewende http://blog.iass-potsdam.de/2016/05/consensus-with-losers/ -
<p>Week 3</p>	<p>Industry</p> <ol style="list-style-type: none"> 1) Philip Hiersemenzel (Yunicos): Batteries, but different 2) Rainer Quitzow (IASS): Innovation 	<p>Readings Week 3</p>

	<ul style="list-style-type: none"> 3) Craig Morris (IASS): Industry makes its own energy 4) Barbara Praetorius (Agora): “Flex efficiency” in industry 	<ul style="list-style-type: none"> - “Solar Energy in Germany and China: Dynamics of a Policy-Driven Market,” by Rainer Quitzow
Week 4	Buildings <ul style="list-style-type: none"> 1) Janna Breitfeld (PHI): Passive House 2) Heiko Thomas (IASS): sector coupling and district heat 3) Stefan Vögele (Jülich): 6 theses for a heat transition 	Readings Week 4 <ul style="list-style-type: none"> - http://www.passipedia.org/start - BMW buildings website - Energiewende and efficiency, Clean Energy Wire
Week 5	Sustainable Mobility <ul style="list-style-type: none"> 1) Andreas Knie (Innoz): Where there’s an app, there’s a way 2) Jürgen Resch (DUH): Dieselgate 3) Ellen Matthies (OVGU): 6 theses for electric vehicles 4) Gero Lücking (Lichtblick): A swarm of EVs for the grid 	Readings Week 5 <ul style="list-style-type: none"> - Schill, W. P., & Gerbaulet, C. (2015). Power system impacts of electric vehicles in Germany: Charging with coal or renewables?. Applied Energy, 156, 185-196.

		<ul style="list-style-type: none"> - Reactions to government decision on e-car subsidies - Why do they love electric cars in the Arctic Circle?
<p>Week 6</p>	<p>The future (roadmaps and scenarios)</p> <ol style="list-style-type: none"> 1) IWES: Reading the Kombikraftwerk II visualization 2) IWES: Kombikraftwerk II 3) DLR: Making scenarios and roadmaps 4) Franz Mauelshagen 5) Hartmut Kahl (Environmental and Energy Law Foundation): German and EU 6) Oliver Geden (SWP): Targets 7) Craig Morris and Sebastian Helgenberger (IASS): Future of community energy 	<p>Readings Week 6</p> <ul style="list-style-type: none"> - Helgenberger, S. (2016): Social benefits of renewable energies http://blog.iass-potsdam.de/2016/05/social-benefits-of-renewable-energies/ - The Combined Power Plant 2 Project: Renewable energy yielding results - Kombikraftwerk II website - Kombikraftwerk animation - Series of articles on Kombikraftwerk II - Greenpeace Energy (R)evolution - Leitstudie Strommarkt, executive summary in English, pp. 1-5 - Modifying the 2°C Target

		<ul style="list-style-type: none"> - Ensuring the Quality of Scientific Climate Policy Advice - An actionable climate target - Abandon hype in climate models - In defense of NIMBYism
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Additional readings

- **Scientific papers**
- Quitzow, L., Canzler, W., Grundmann, P., Leibenath, M., Moss, T., & Rave, T. (2016). The German Energiewende—What's Happening? Introducing the Special Issue. *Utilities Policy*.
- Holstenkamp, L., & Kahla, F. (2016). What are community energy companies trying to accomplish? An empirical investigation of investment motives in the German case. *Energy Policy*, 97, 112-122.
- Strunz, S. (2014). The German energy transition as a regime shift. *Ecological Economics*, 100, 150-158.
- Ohlhorst, D., Schreurs, M., & Gullberg, A. T. (2012). Norway—“Battery” for the German Energy Transition? Different National Interests in Energy Policies Norway—, Batterie “der deutschen Energiewende? Unterschiedliche Länderinteressen in der Energiepolitik. *GAIA-Ecological Perspectives for Science and Society*, 21(4), 319-320.
- Beermann, J., & Tews, K. (2016). Decentralised laboratories in the German energy transition. Why local renewable energy initiatives must reinvent themselves. *Journal of Cleaner Production*.
- **Articles:**
- Kunzig, R. (2015): Germany Could Be a Model for How We’ll Get Power in the Future <http://ngm.nationalgeographic.com/2015/11/climate-change/germany-renewable-energy-revolution-text>
- **Websites:**
- <https://www.cleanenergywire.org/>
- <http://strom-report.de/renewable-energy/>

- Agentur für Erneuerbare Energien <https://www.unendlich-viel-energie.de/media-library/background-papers>