



Out of the box mitigation approaches as inspiration for state and non-state actors

e.g. CCU – CarbonCapture and Utilization, overview
on contribution of ideas and technology


Prof. Dr. Uwe Arnold
AHP Solutions Berlin

e – nergy	Heading for 0°C by 2400	100% renewables
e – nvironment		Resilience
e – conomy		Eco Innovations
e – mployment		Diversification and equal opportunities
e-fficiency		Eliminating externalization

Environmentally empathic societies are generating economic value at increasing quality of life

Strategy:
Eco Innovations towards 0°C



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- **New energetic capabilities by wind, hydro and hydrogen power**
→ **substitution** of CO₂ emitting power supply infrastructure by renewables
 - **New traffic systems and electro transportation**
→ **replacement** of CO₂ emitting traffic & transport by e-mobility based systems to create add versatility options
 - **Natural diesel and gasoline usage instead of fossil fuels**
→ **substitution** of C-extractive fossile fuels by c-neutral bio-fuels
 - **Long term storage of Carbon**
→ **long-term de-activation** of CO₂ by means of safe & intelligent CCS→CCU
 - **Materials made from Carbon**
→ **value adding** by means of new carbon based, stable and valuable materials for industry, construction & consumption

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Example:

CCU

Carbon Capture & Utilisation

New Materials made from GHG after natural or artificial carbon capture

- **Graphene** made from methane
- **Concrete** being enriched with CO₂
- **Carbon Fibers** made from plant based raw materials like Lignin or Algae oil
- **Carbon Fibers** made from CO₂ by means of electrolysis using Lithium
- **Lime stone** made from CO₂
- **Biodegradable plastics** made from starch & polylactic acid derivatives
- Other...

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Thank You