

100% renewable electricity supply in Germany and other Countries by 2050

Harry Lehmann

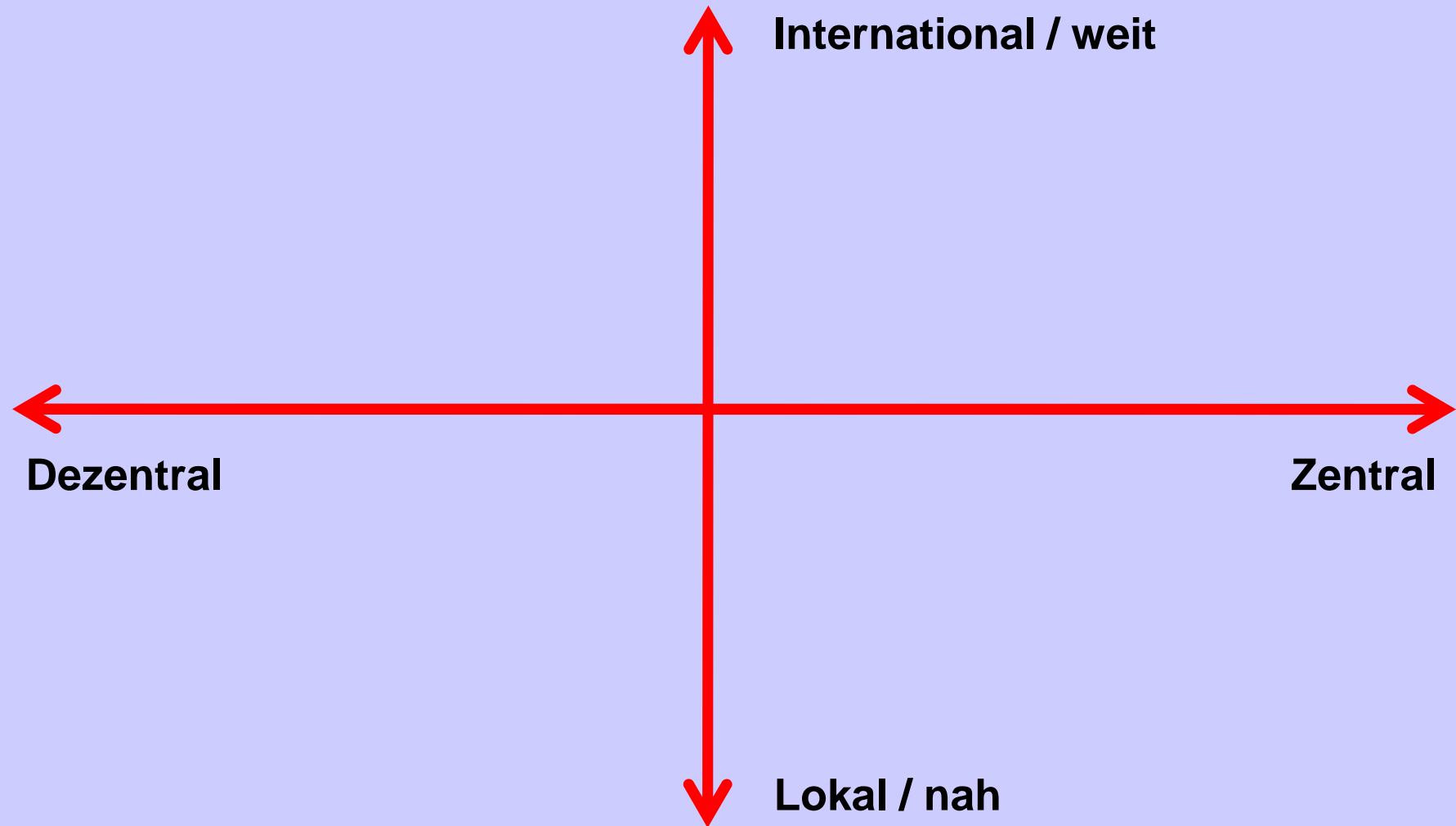
German Federal Environment Agency



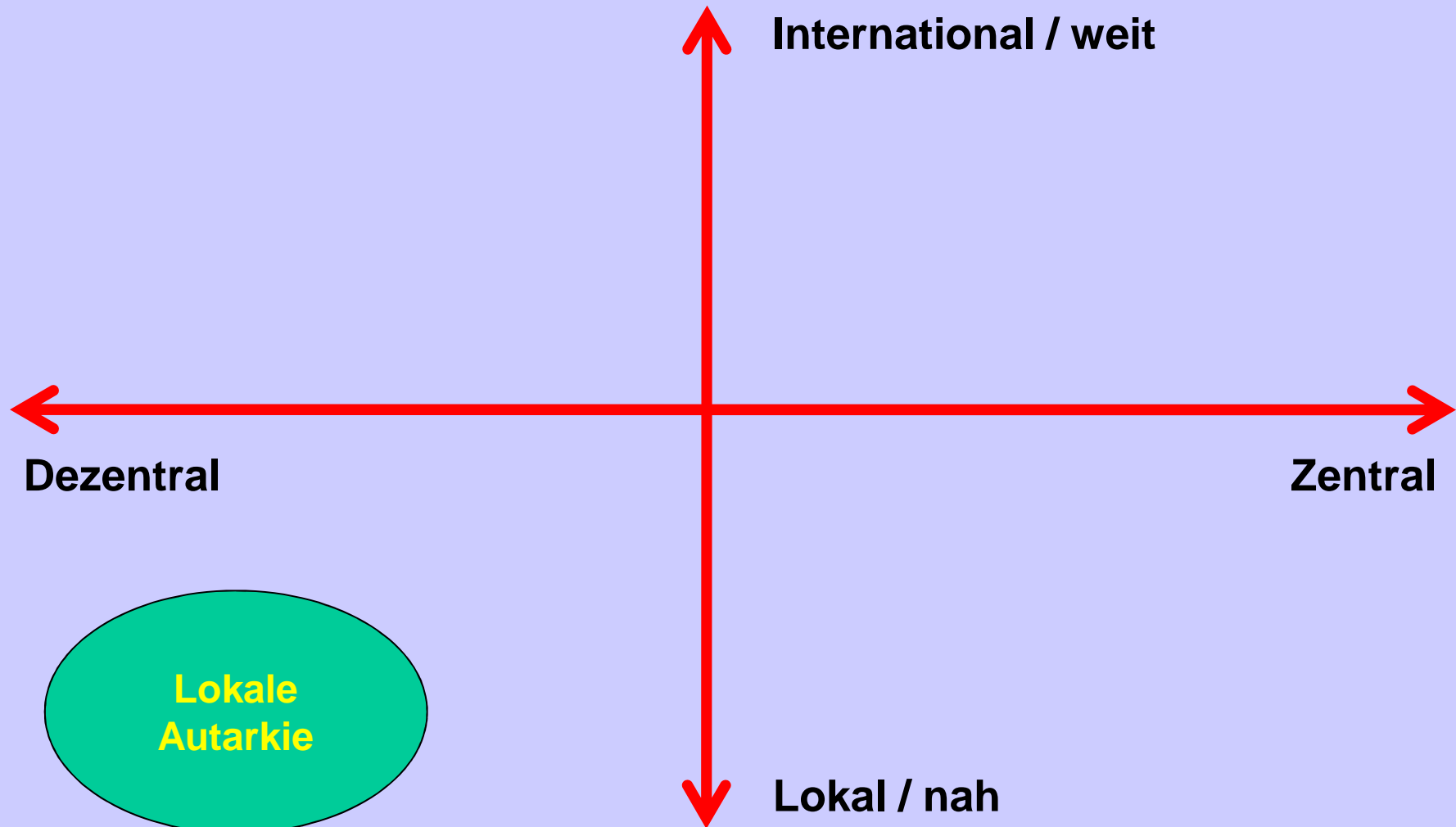
Archetypen



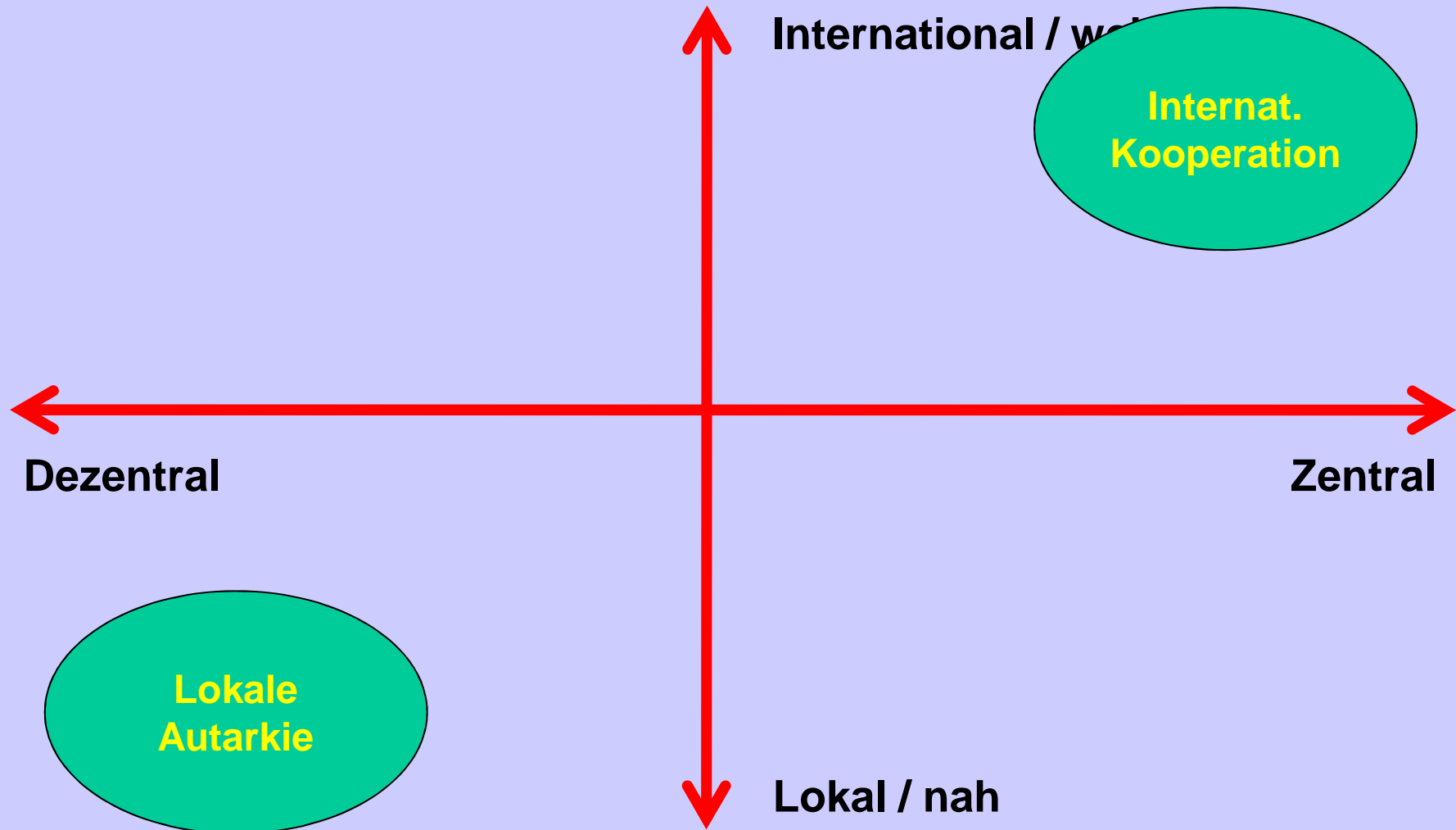
Archetypen



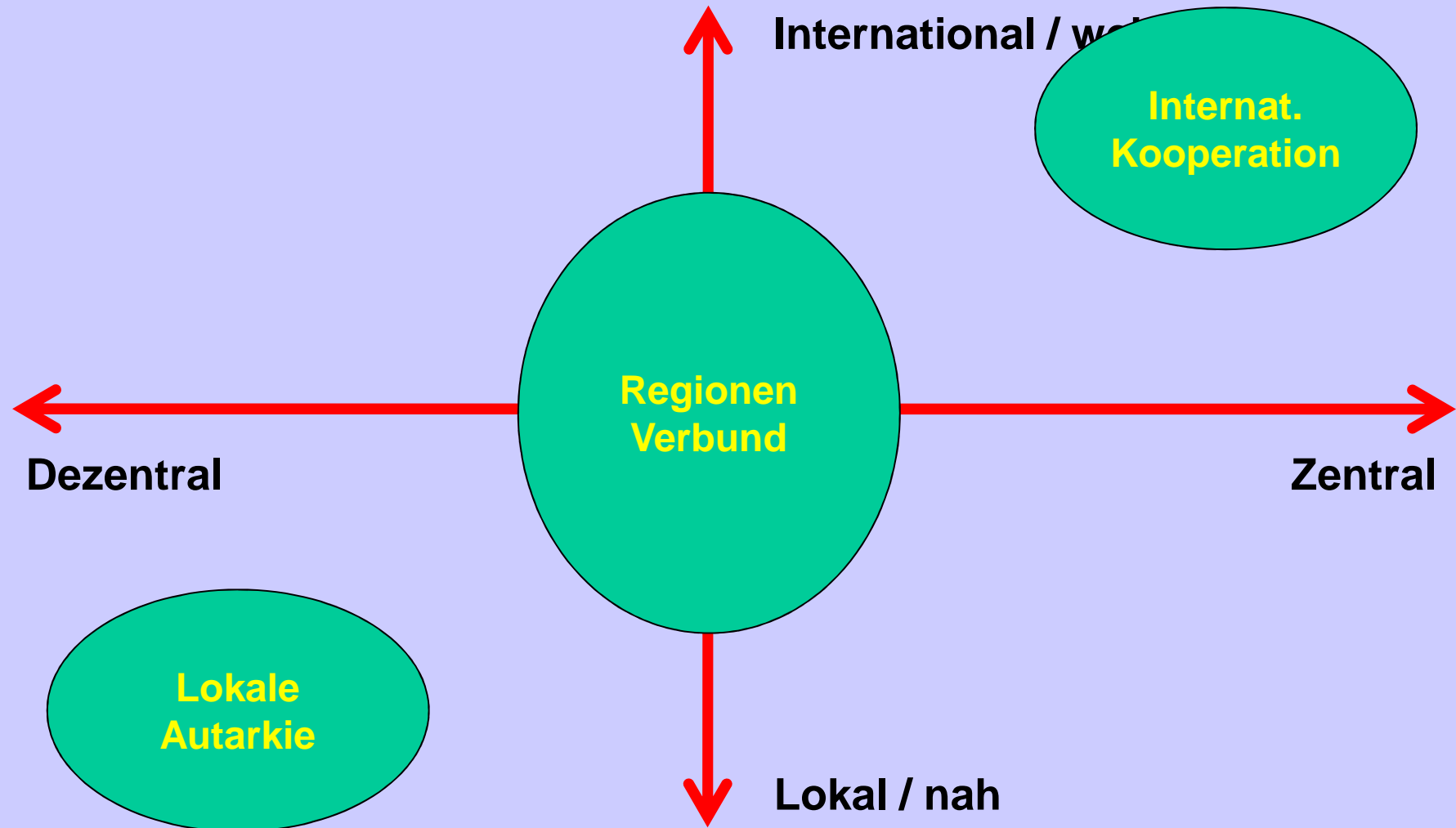
Archetypen



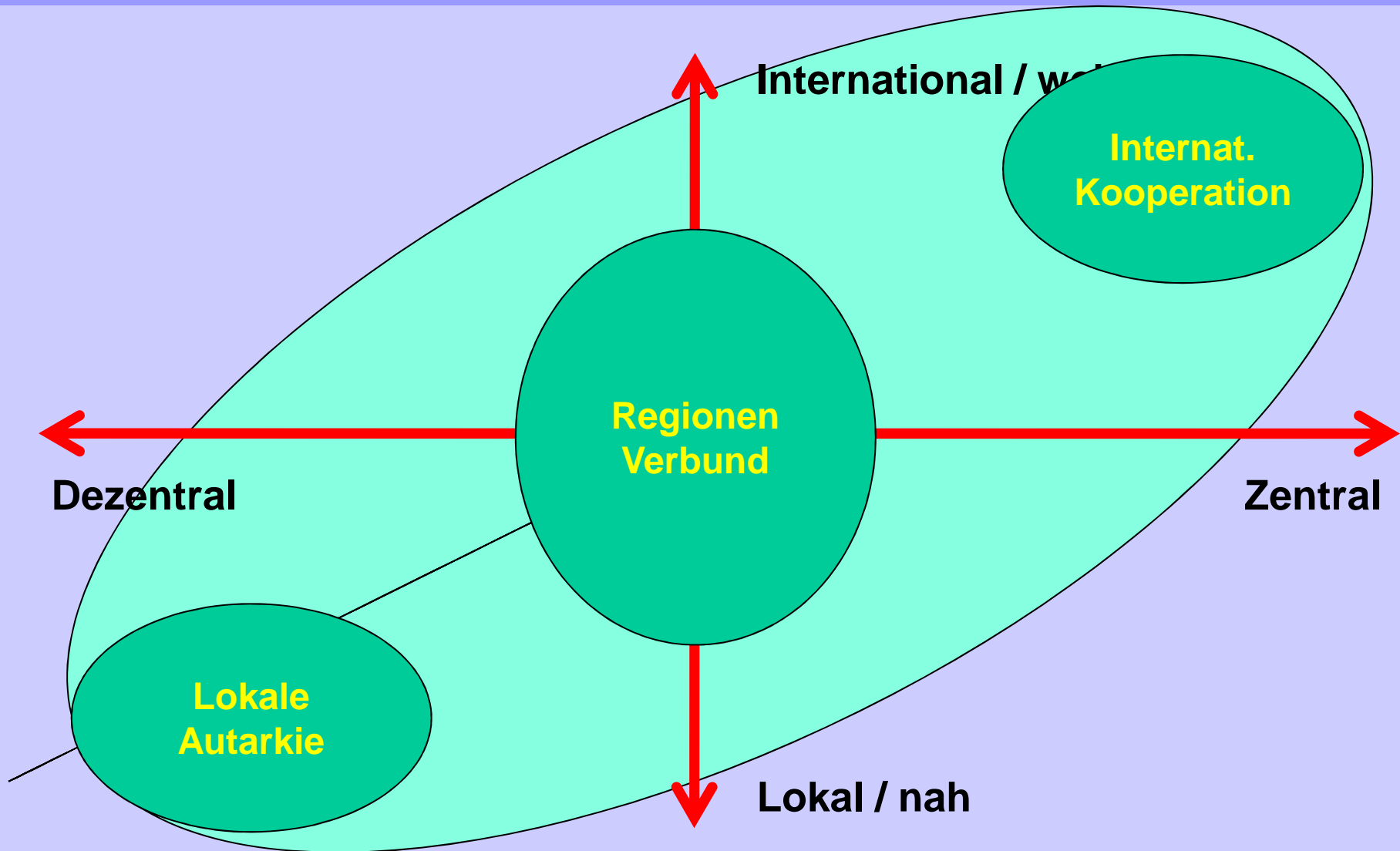
Archetypen



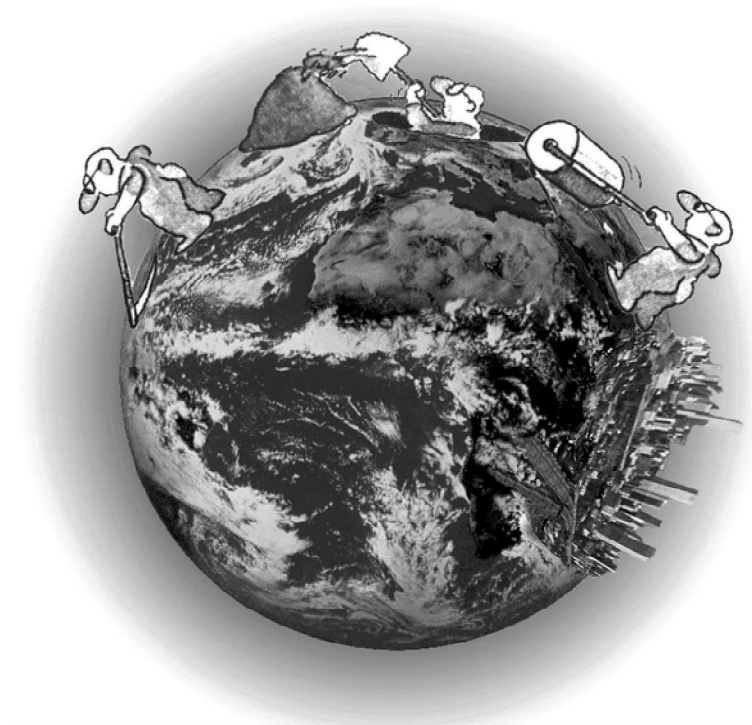
Archetypen



Archetypen



Deutschland

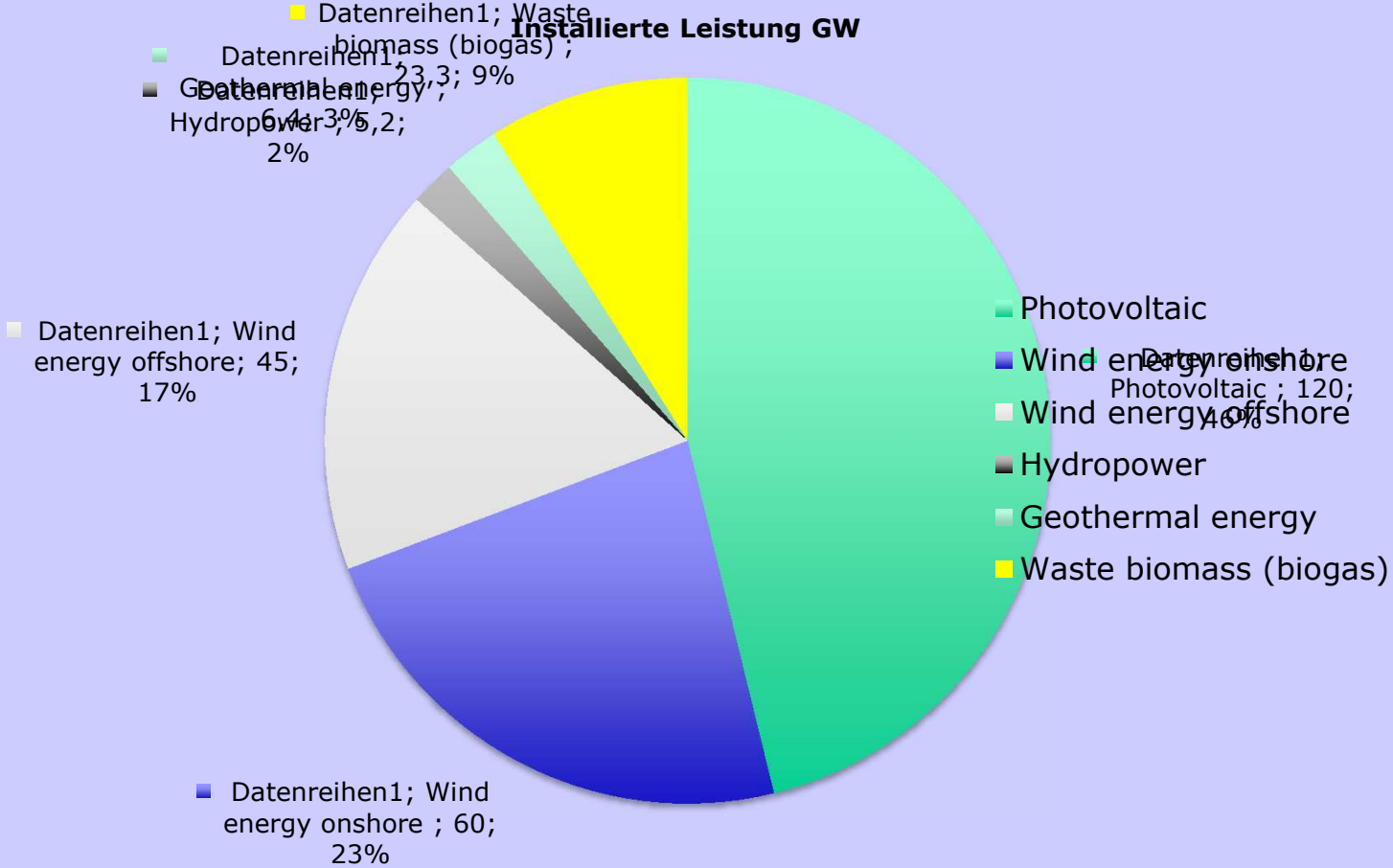


Limits to growth

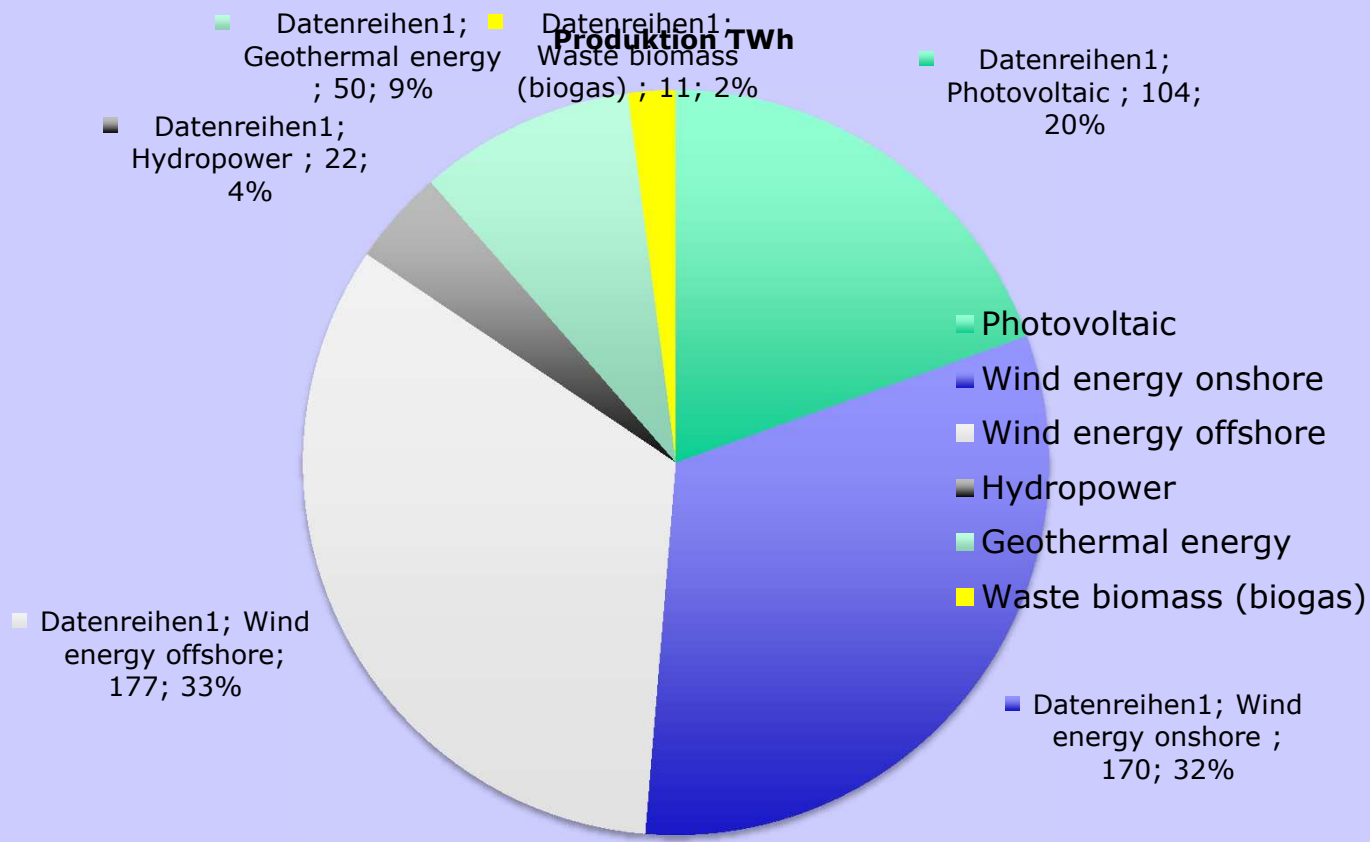
Source: Harry Lehmann, 1994

2010 – Harry Lehmann (UBA Germany)

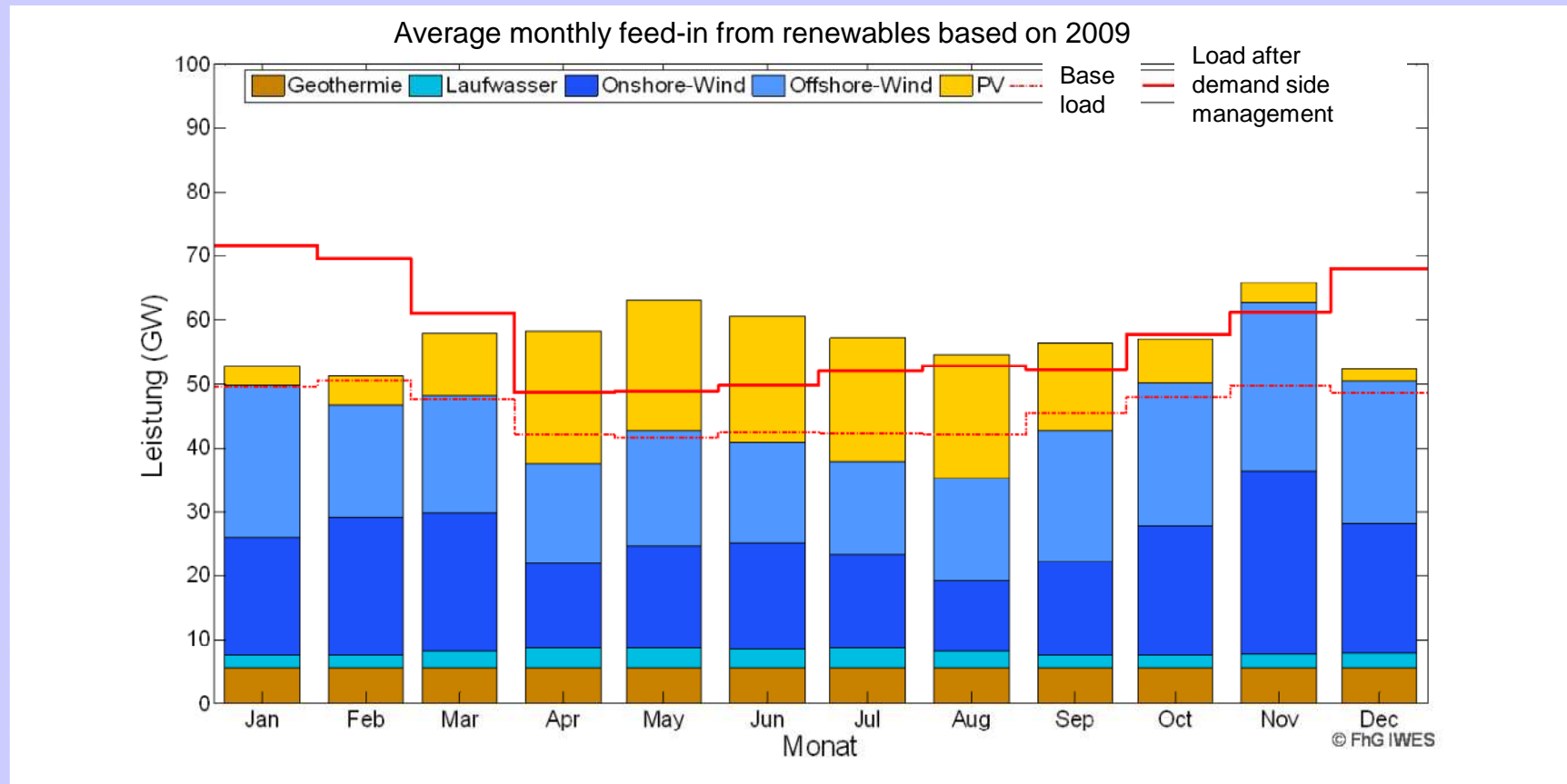
Regionen Verbund D - 2050



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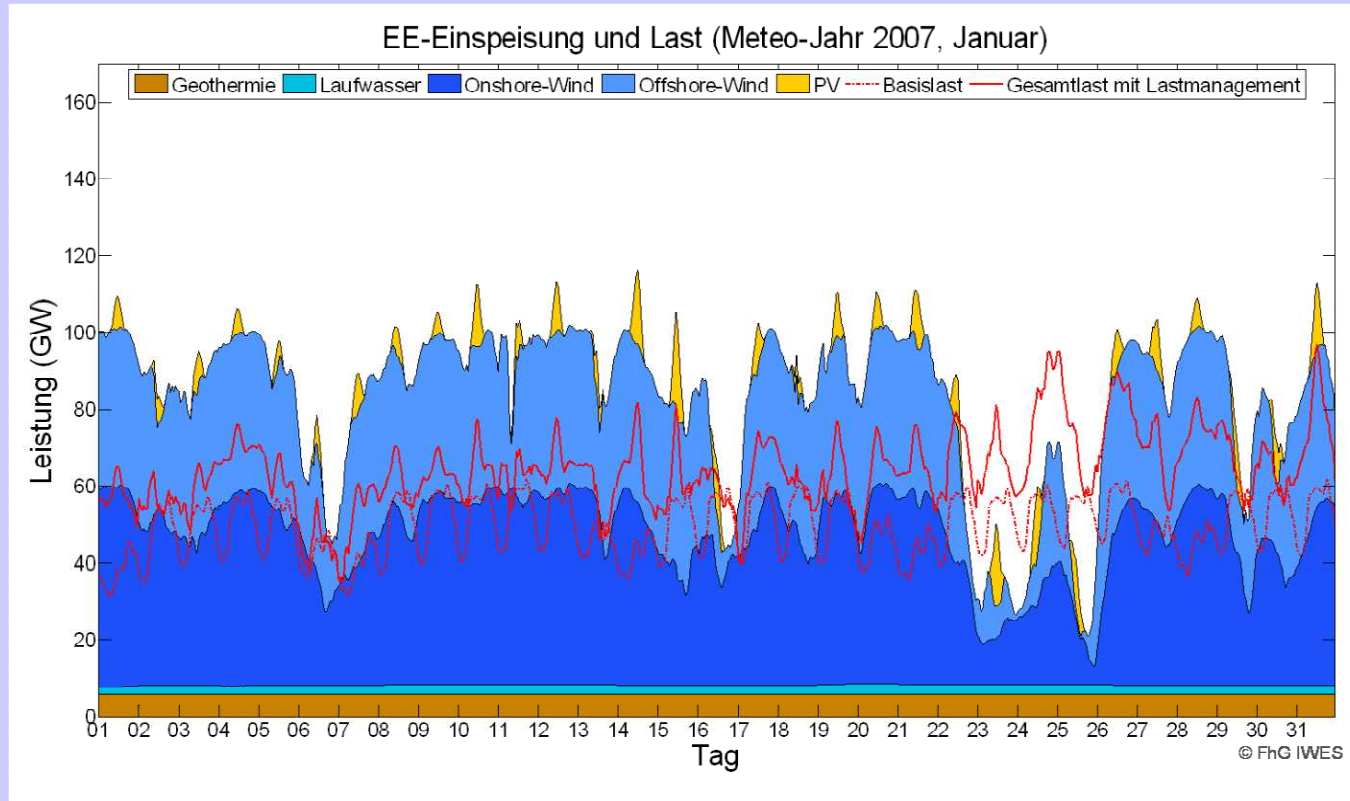
Feed-in of renewable energy in comparison to the load curve



Feed-in [GW] of all RE and load (with and without demand side management) per month in 2050, based on the meteorological year 2009



Feed-in of renewable energy and load – per month (winter)

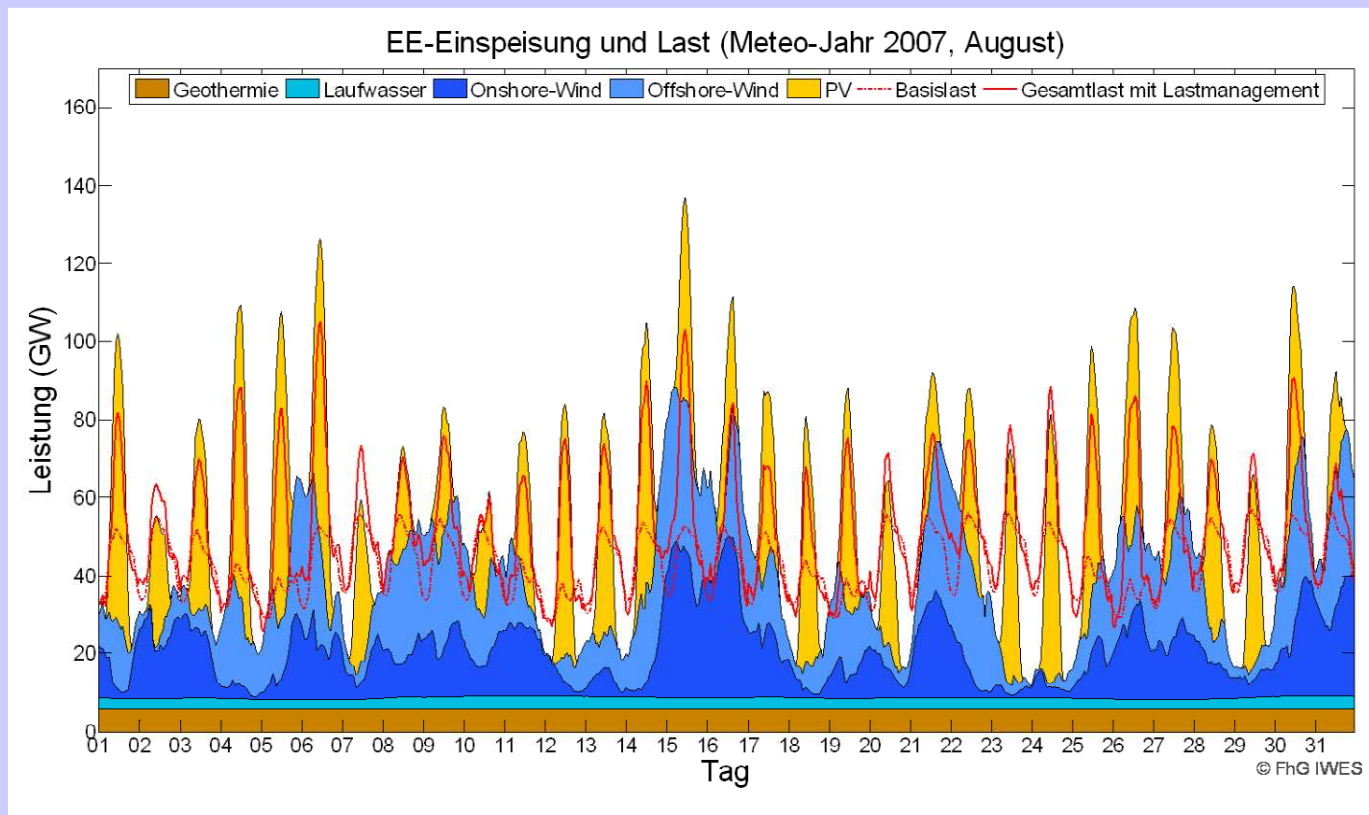


Feed-in [GW] of all RE and the load curve

Example „Winter day“ (December) for the feed-in of renewable energies in 2050, based on the meteorological year 2007



Feed-in of renewable energies and load – per month (summer)

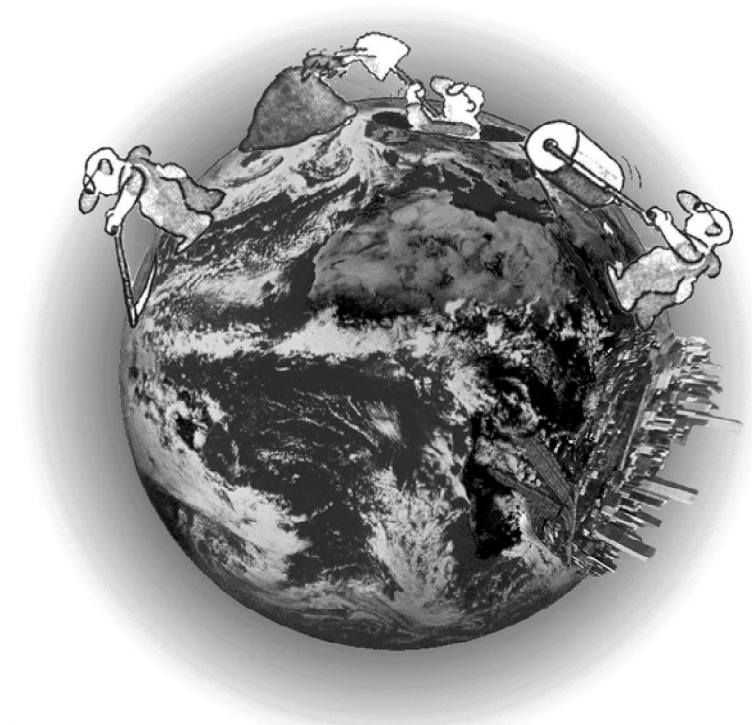


Feed-in [GW] of all RE and load

Example „Summer day“ (August) for the feed-in of renewable energies in 2050, based on the meteorological year 2007



Andere Szenarien...



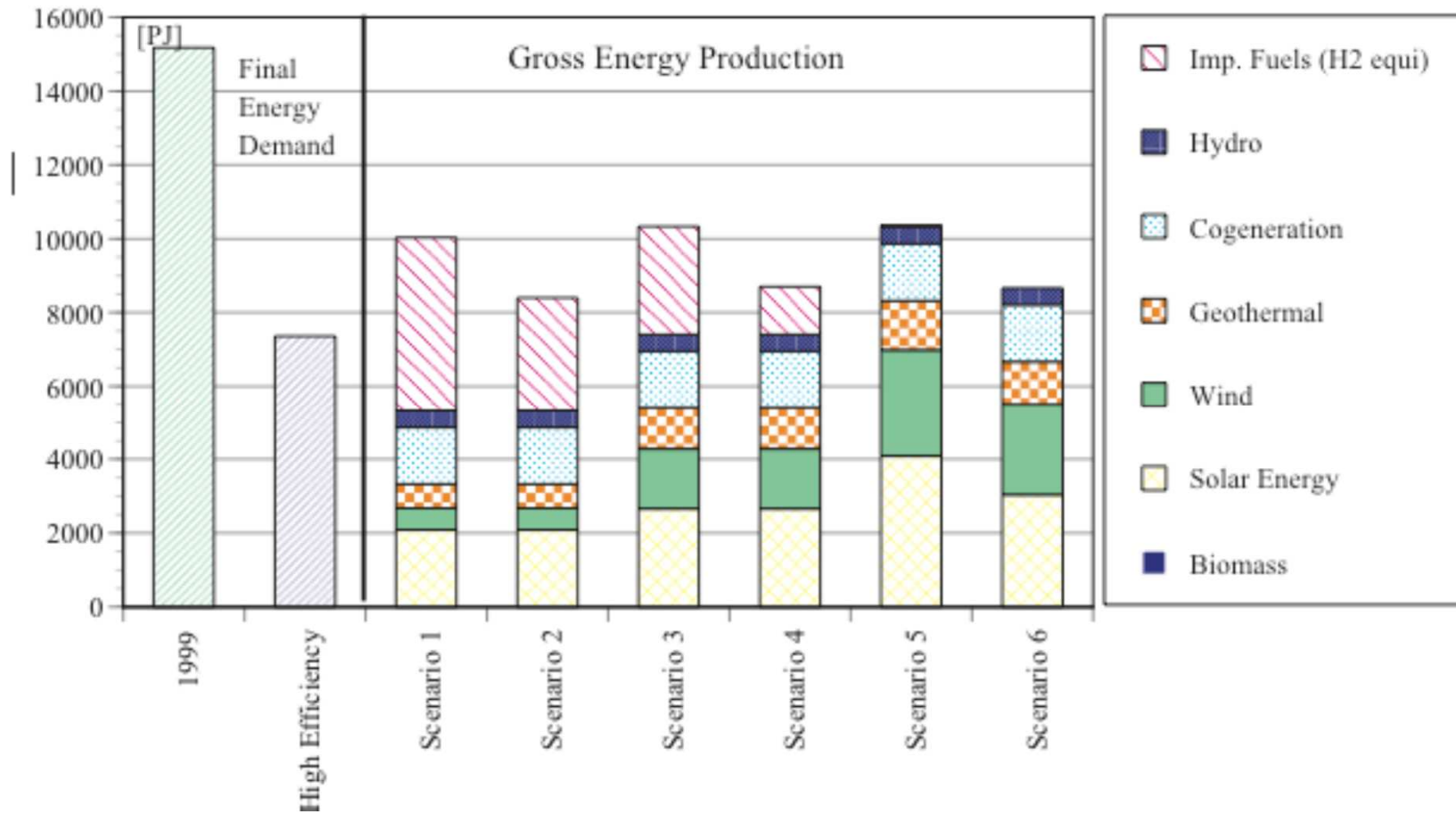
Limits to growth

Source: Harry Lehmann, 1994

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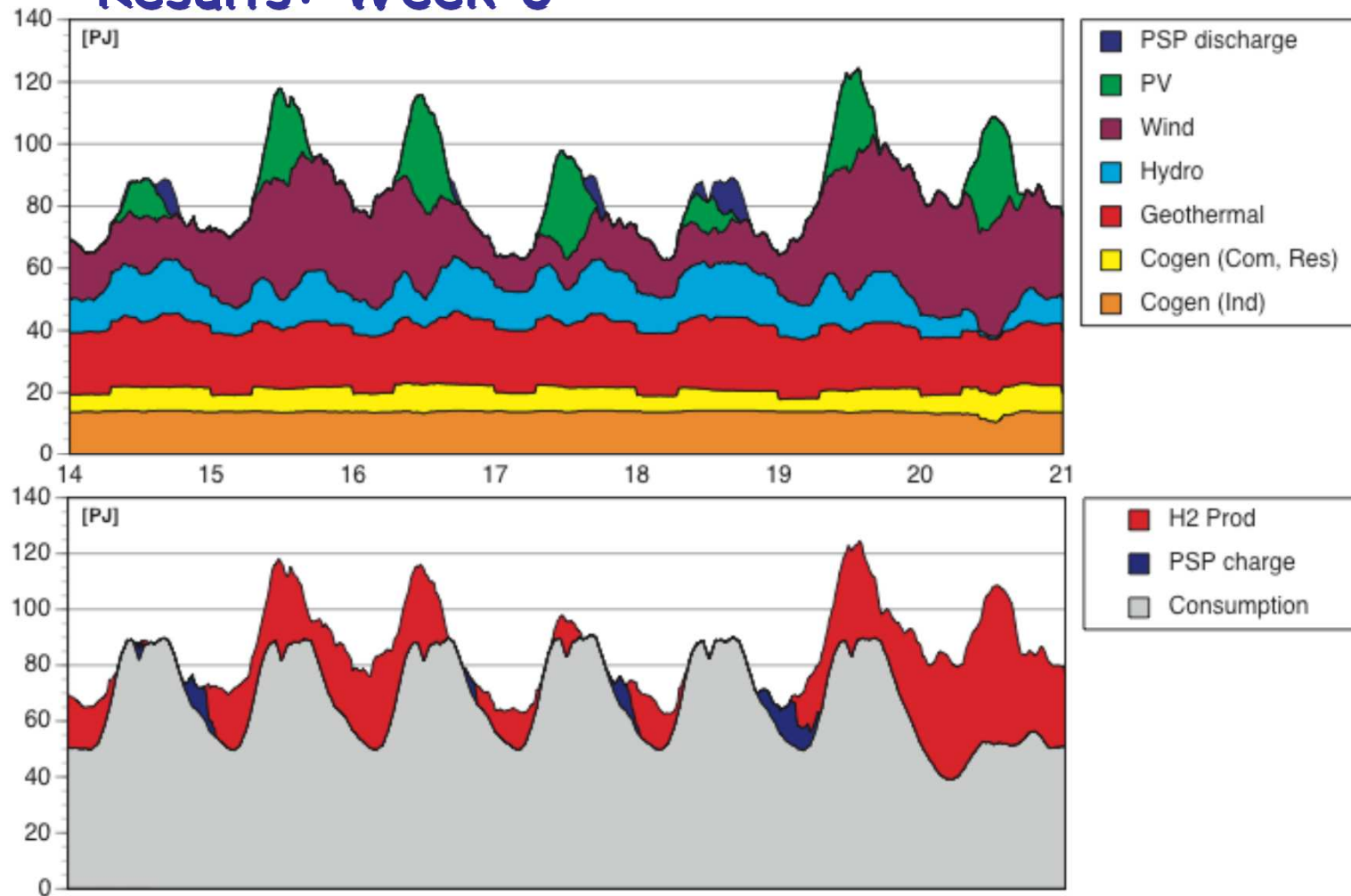
Energy Supply in the ERJ Scenarios (2002)

エネルギーリッチ・ジャパン



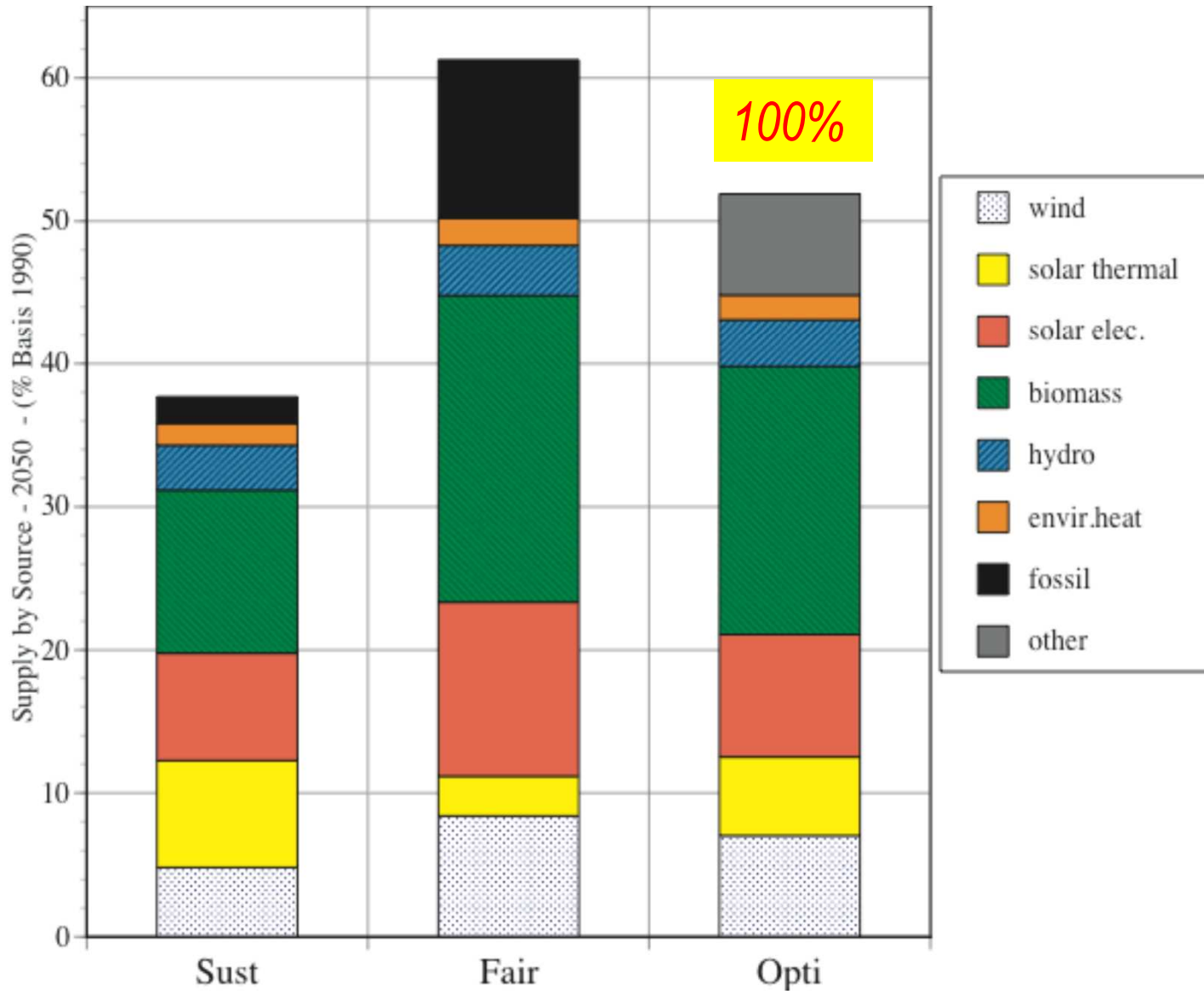
Source: ERJ, info@energyrichjapan.info

Results: Week 3



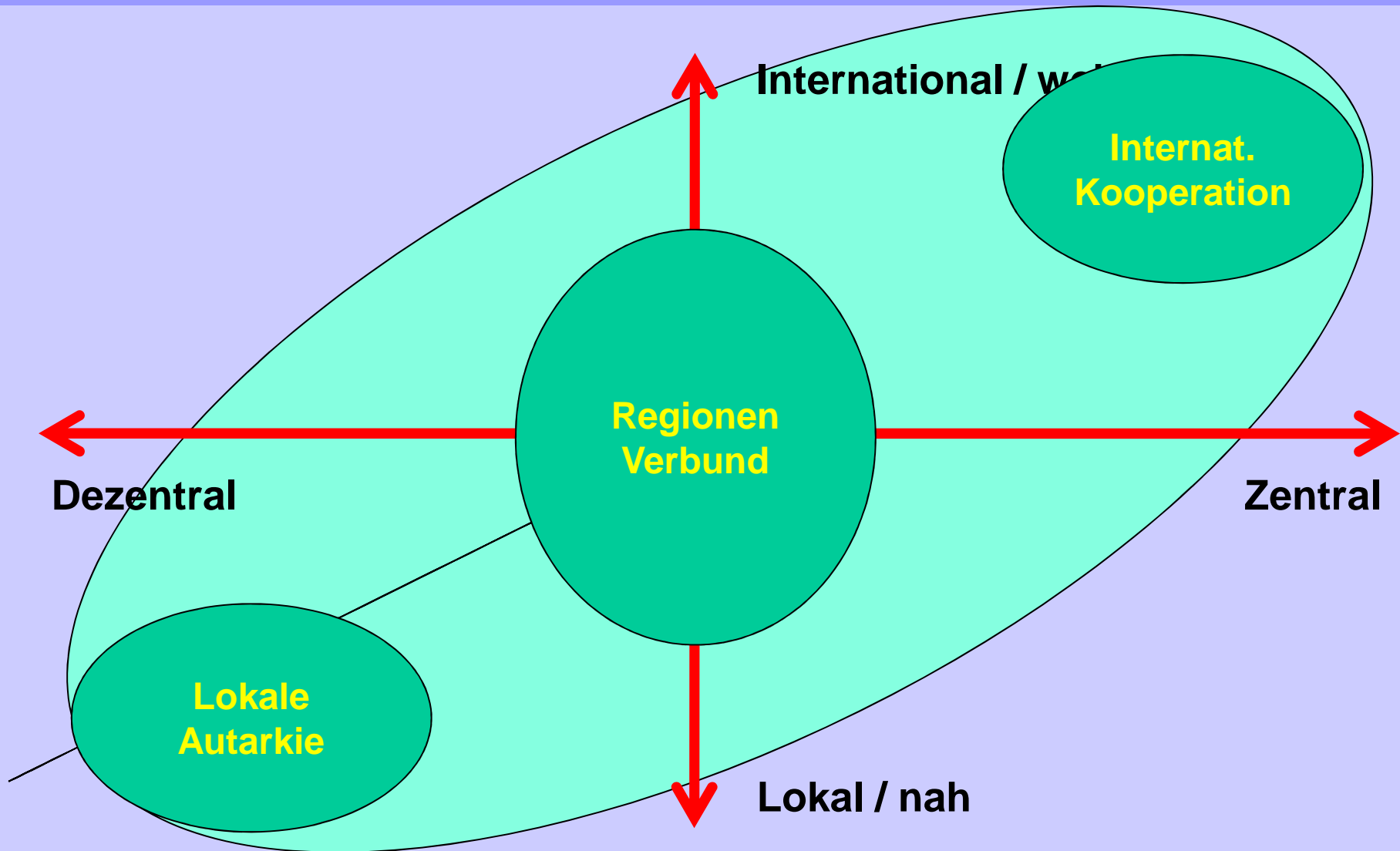
Source: ERJ, info@energyrichjapan.info

Europe 2050 - Szenarien der 90er

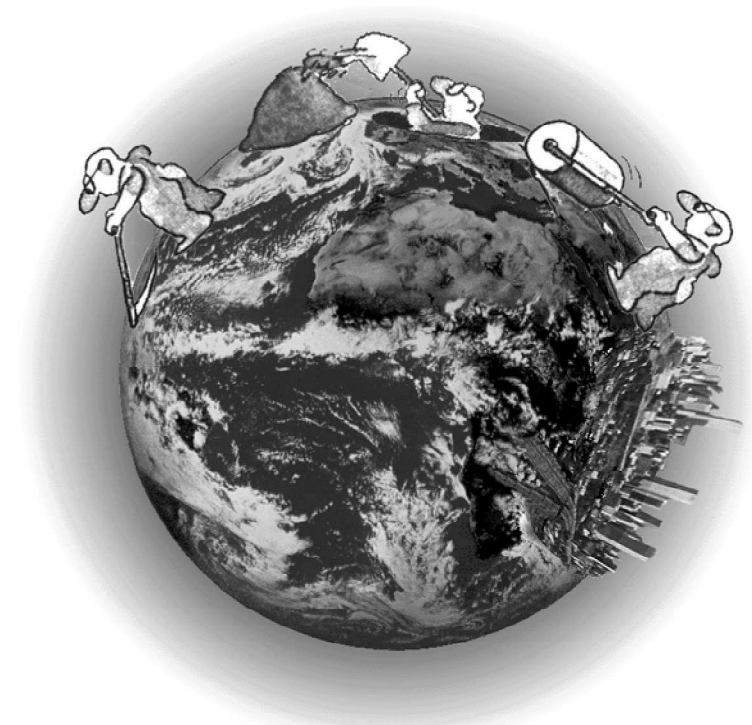


Source: solarmissionpossible.info

Archetypen



Politik ... der nächsten Dekade



Limits to growth

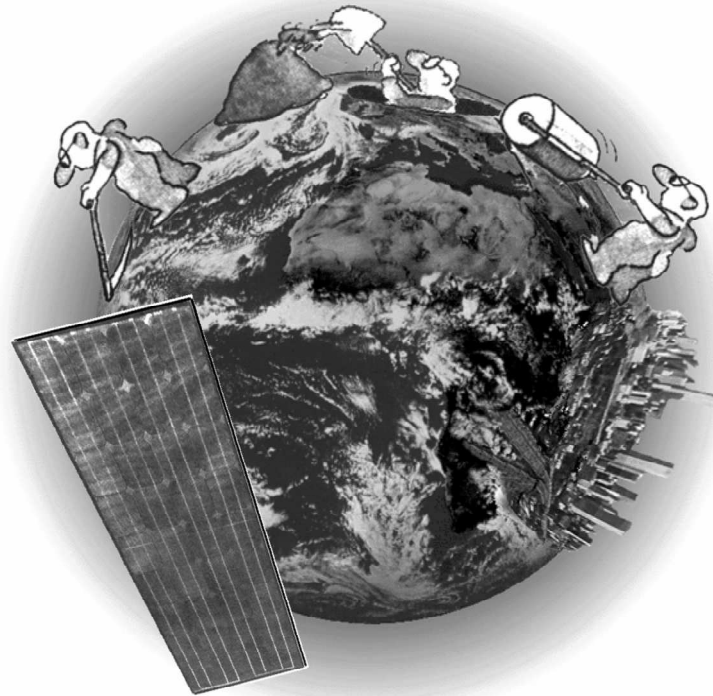
Source: Harry Lehmann, 1994

2010 – Harry Lehmann (UBA Germany)

Renewable Energy Supply is possible !

Up to 100%

Lets do it !



Source: Harry Lehmann, 1994

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2010 – Harry Lehmann (UBA Germany)