

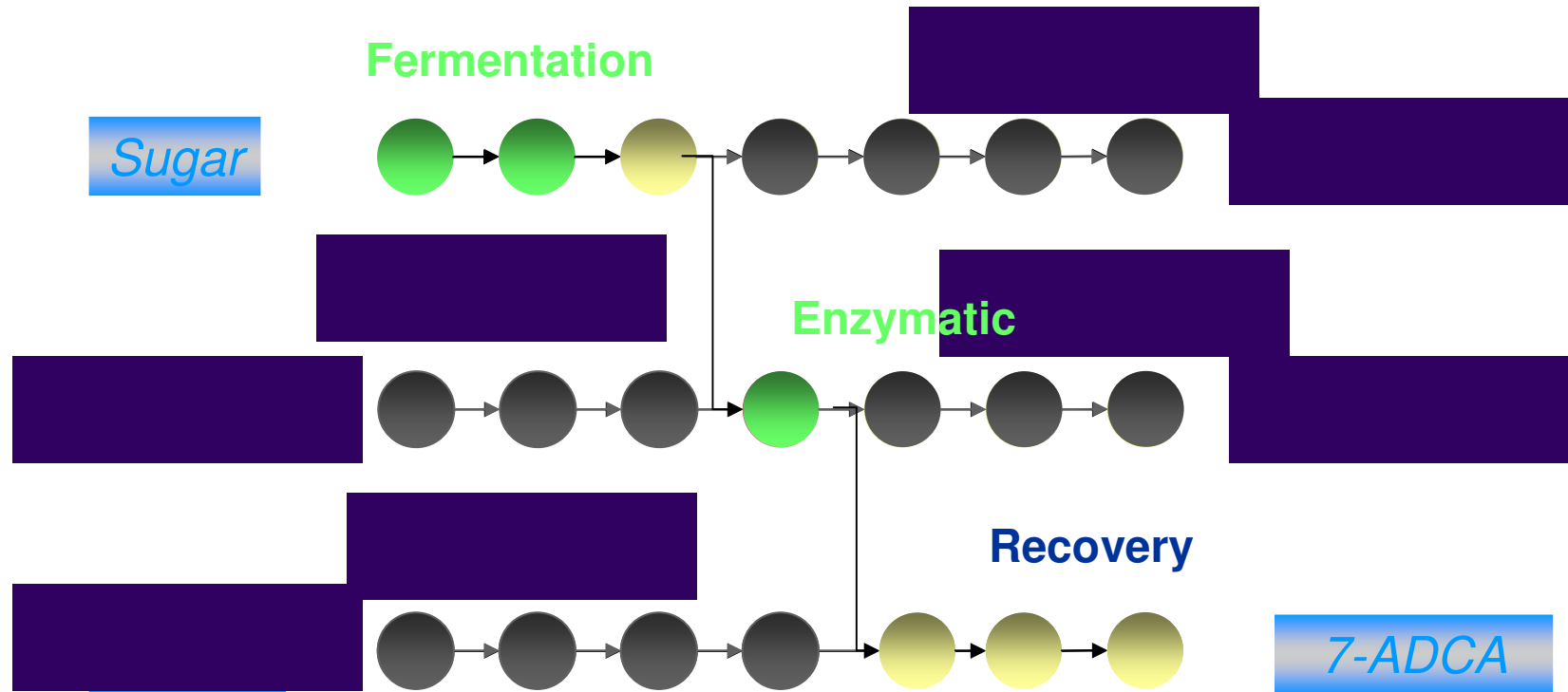
Sustainability at DSM

Rome, 27 March 2008

Dr Philip van Lelyveld

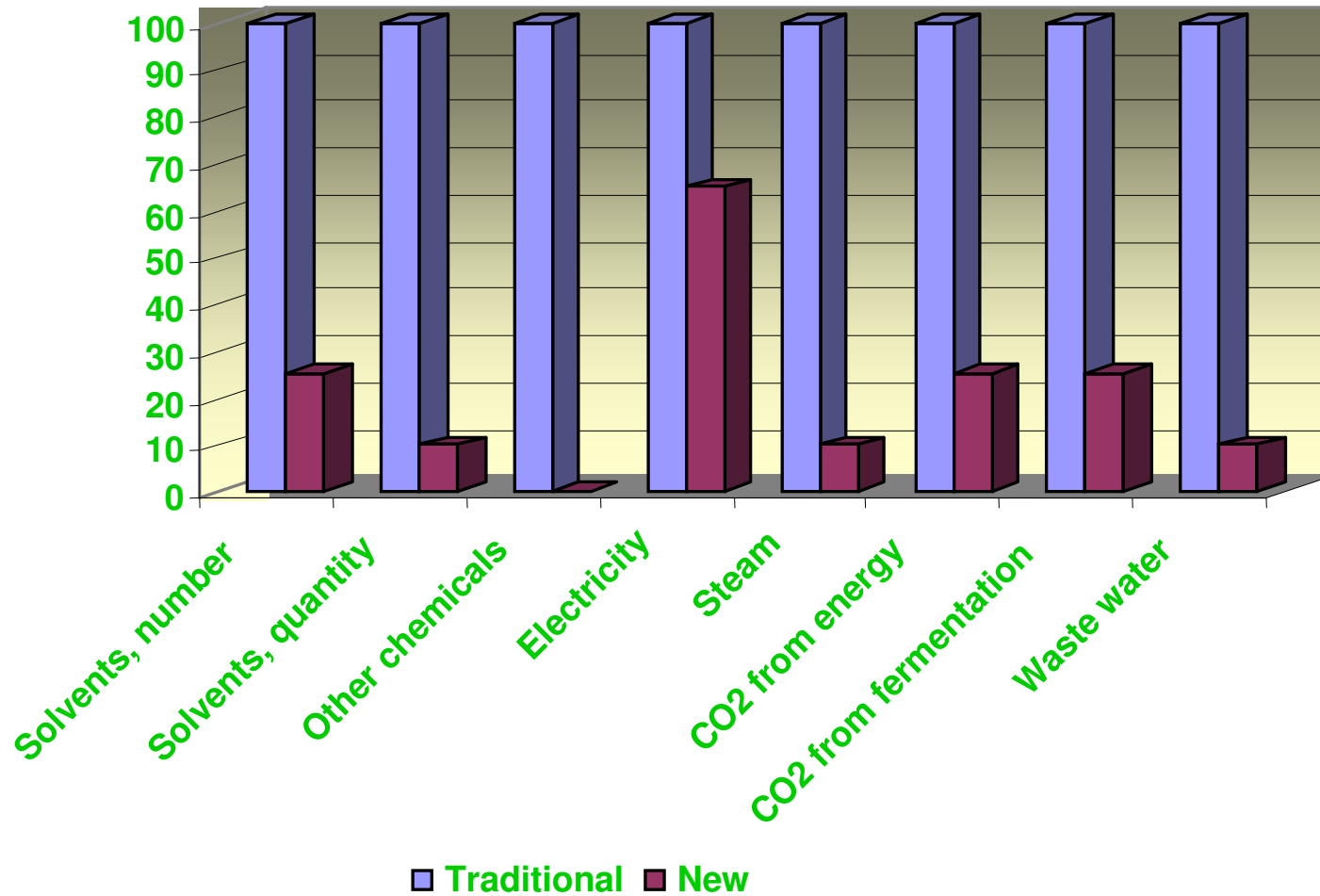


Traditional & New 7-ADCA route



Benefits New Process

2



7-ADCA plant Delft

3

Development 1996/1999

Construction 2000/2001

Start-up 2001

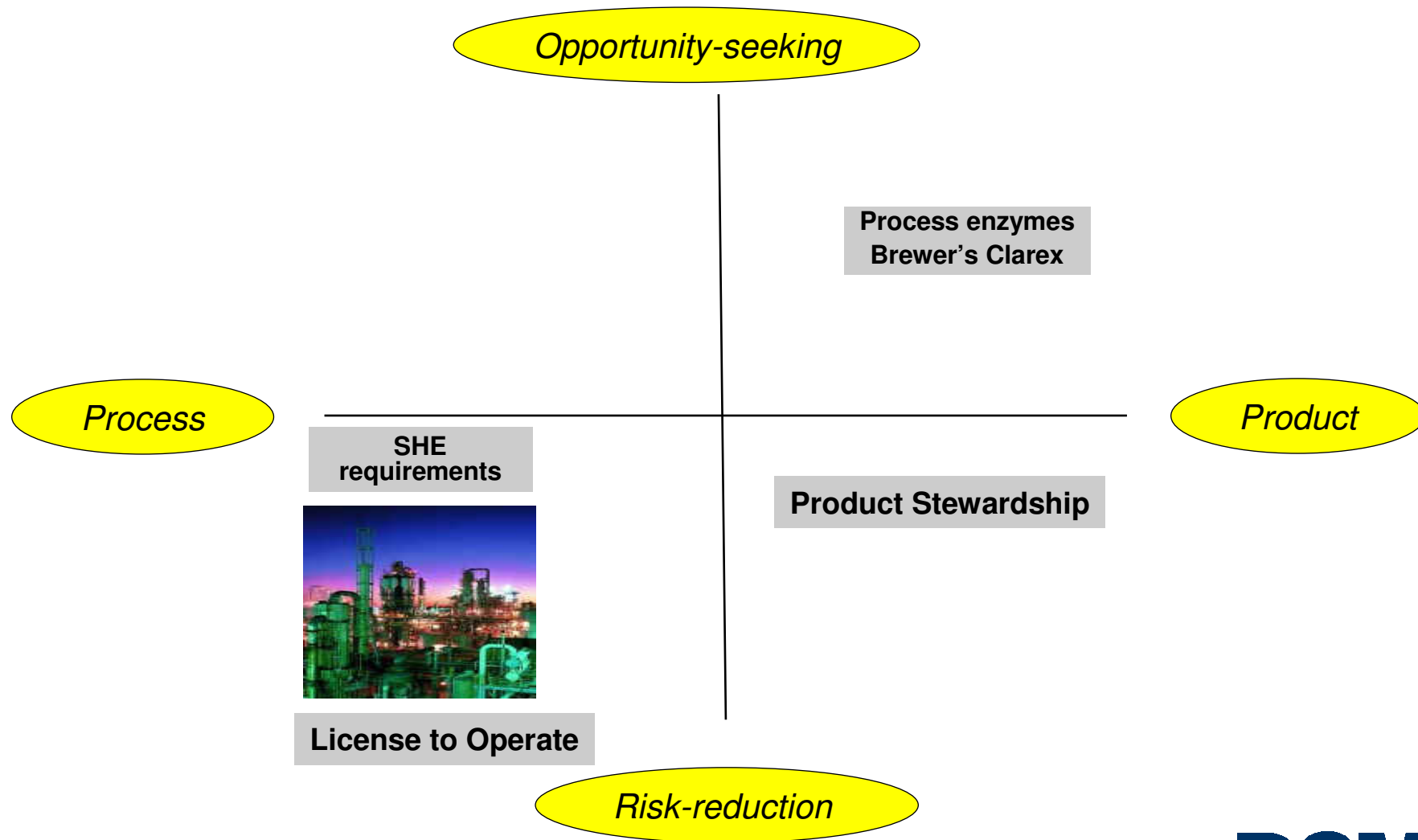
Market 2001



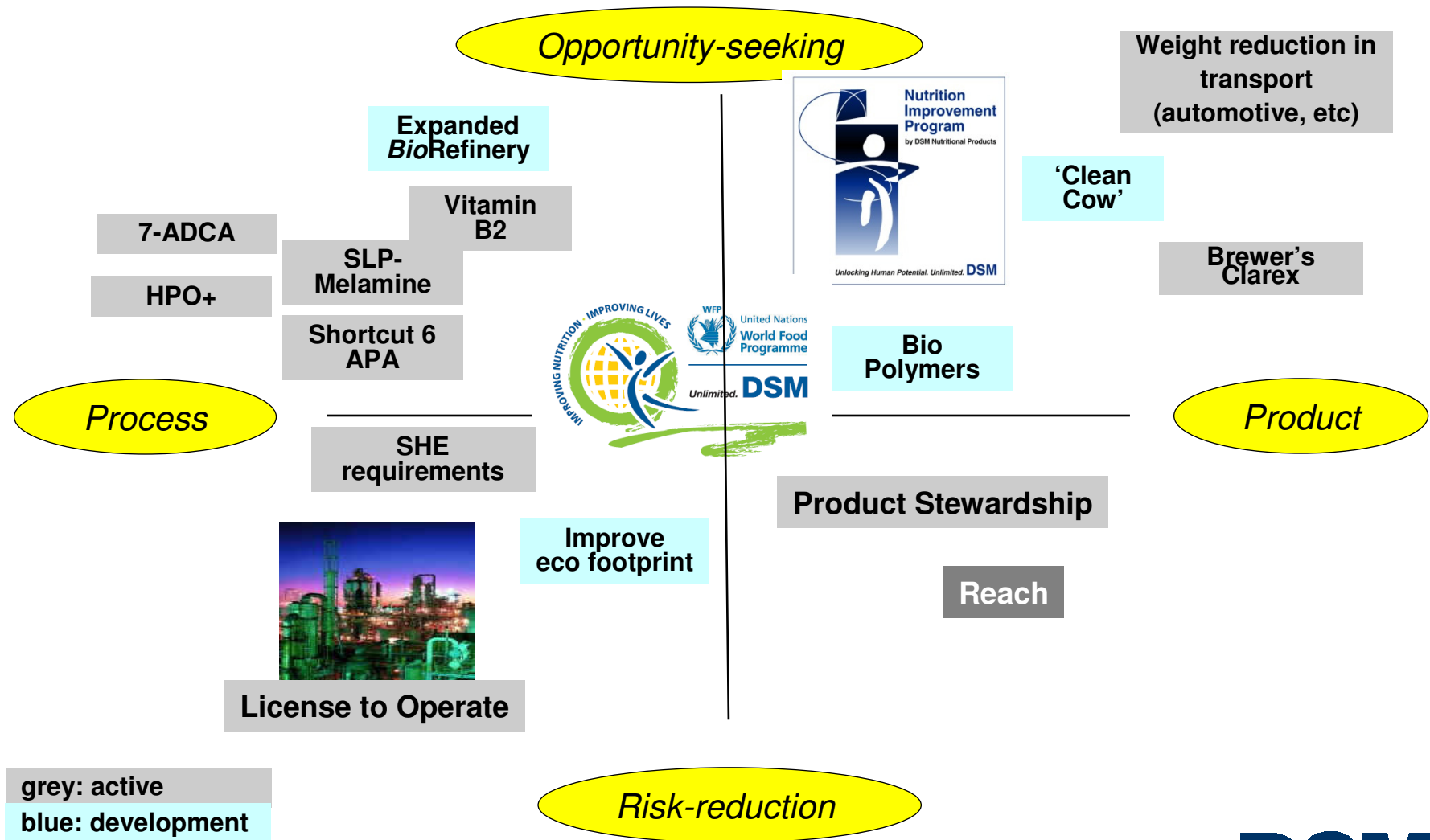
- Fewer production steps
- Lower costs
- More pure end product
- Solvent free production process
- Energy saving
- Savings on greenhouse gases
- Less pollution

Sustainability implementation examples

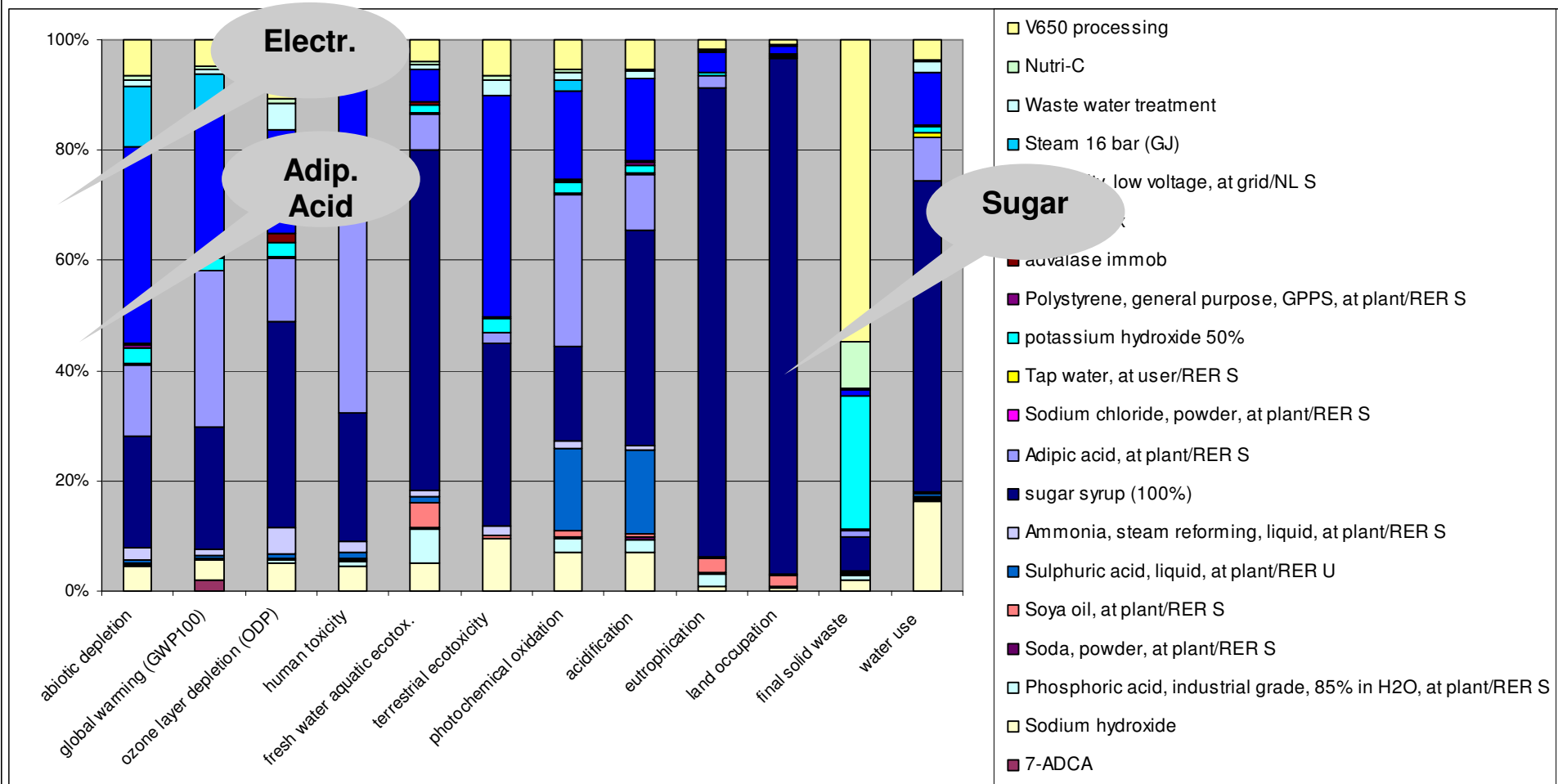
5



Sustainability implementation examples



Life Cycle Analysis of 7-ADCA



- Industry is part of the solution
- Increase efficiency through
 - integrated bio-refineries
 - second-generation feedstock from whole plants
- Certification of agricultural raw materials