

# Challenges for German energy policy after the elections



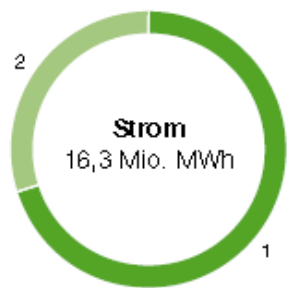
**Bruegel ,Energy and Climate Exchange‘, 14 October 2013**  
**Susanne Kuschel, BASF**

# Energy supply of the BASF group

## Energieversorgung der BASF-Gruppe 2011

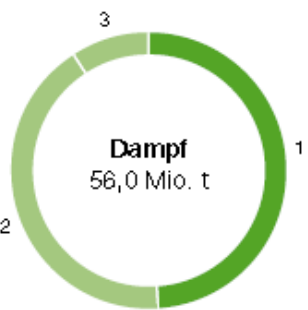
### Stromversorgung

1	Eigene Erzeugung	70 %
2	Zukauf	30 %



### Dampfversorgung

1	Eigene Erzeugung	49 %
2	Prozesswärme	42 %
3	Zukauf	9 %



Für die eigene Erzeugung eingesetzte fossile Brennstoffe und Restbrennstoffe in den Kraftwerken der BASF-Gruppe

**85 % Erdgas**  
34,5 Mio. MWh

**1 % Heizöl**  
0,3 Mio. MWh

**2 % Kohle**  
0,9 Mio. MWh

**12 % Restbrennstoffe**  
4,9 Mio. MWh

**Insgesamt:** 40,6 Mio. MWh

## Need for electricity- and steam in the regions

	Europe / LU	Asia	North America	South America
<b>Electricity</b>	65% / 40 %	12%	22%	1%
<b>Steam</b>	60% / 35 %	16%	23%	1%

# Energy efficiency – key to CO<sub>2</sub> reductions

## Energy ,Verbund‘

Export of steam

Import of steam



## Energy production:

Highly efficient CHP plants with gas and steam turbines



## Highly efficient processes

a multitude of smaller energy efficiency measures



**Yearly savings for the BASF-group 2011:**

**Primary energy:**

Verbund: 1,6 mio. toe

CHP: 1,0 mio. toe

**CO<sub>2</sub>-emissions:**

Verbund: 3,7 mio. t CO<sub>2</sub>

CHP: 2,4 mio. t CO<sub>2</sub>

# Energy ,Verbund‘

## Example: circular flow of steam at a ,Verbund‘ site

Export of steam



Sulphuric acid plant



Acryl acid plant



Power Station

Yearly Savings  
BASF-group 2011:

**Primary energy:**  
**1,6 mio. toe**

**CO<sub>2</sub>-emissions:**  
**3,7 mio. t CO<sub>2</sub>**

Consumption of steam



Adipic acid plant

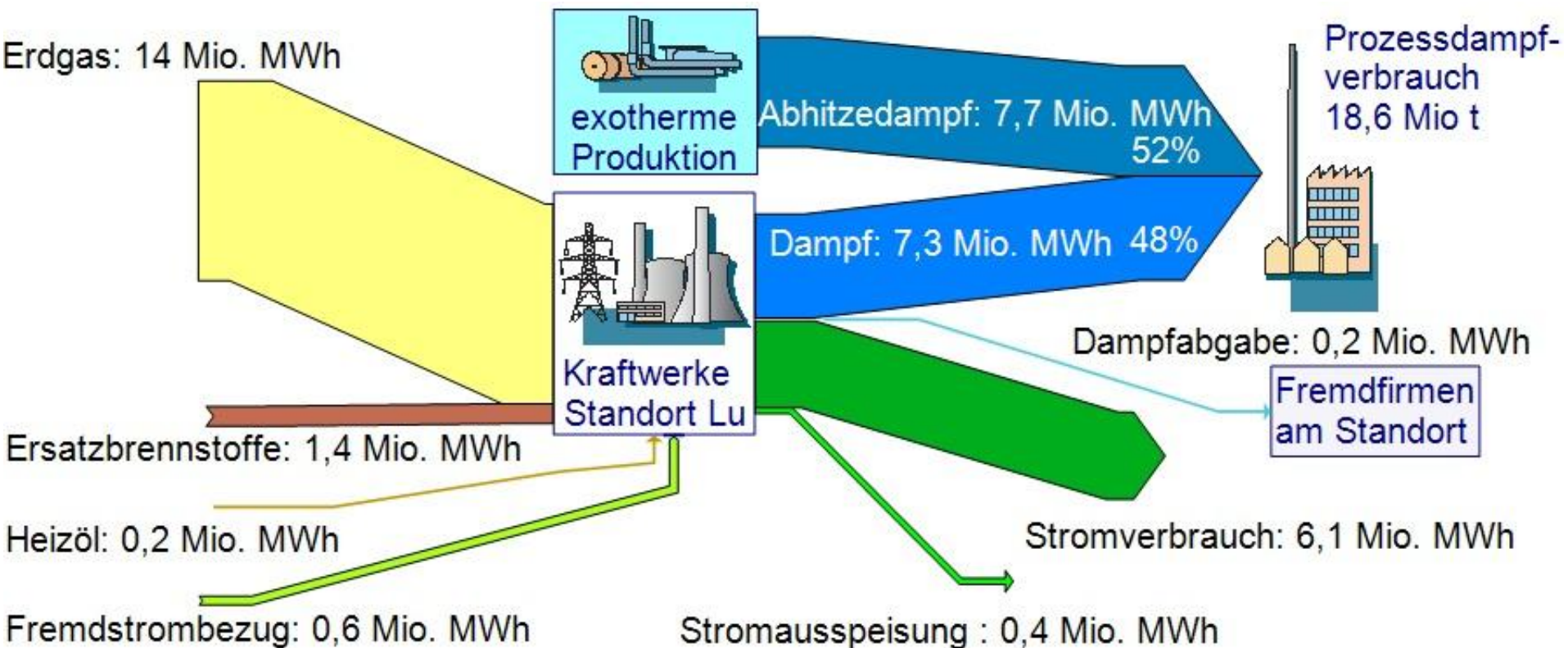


Administration

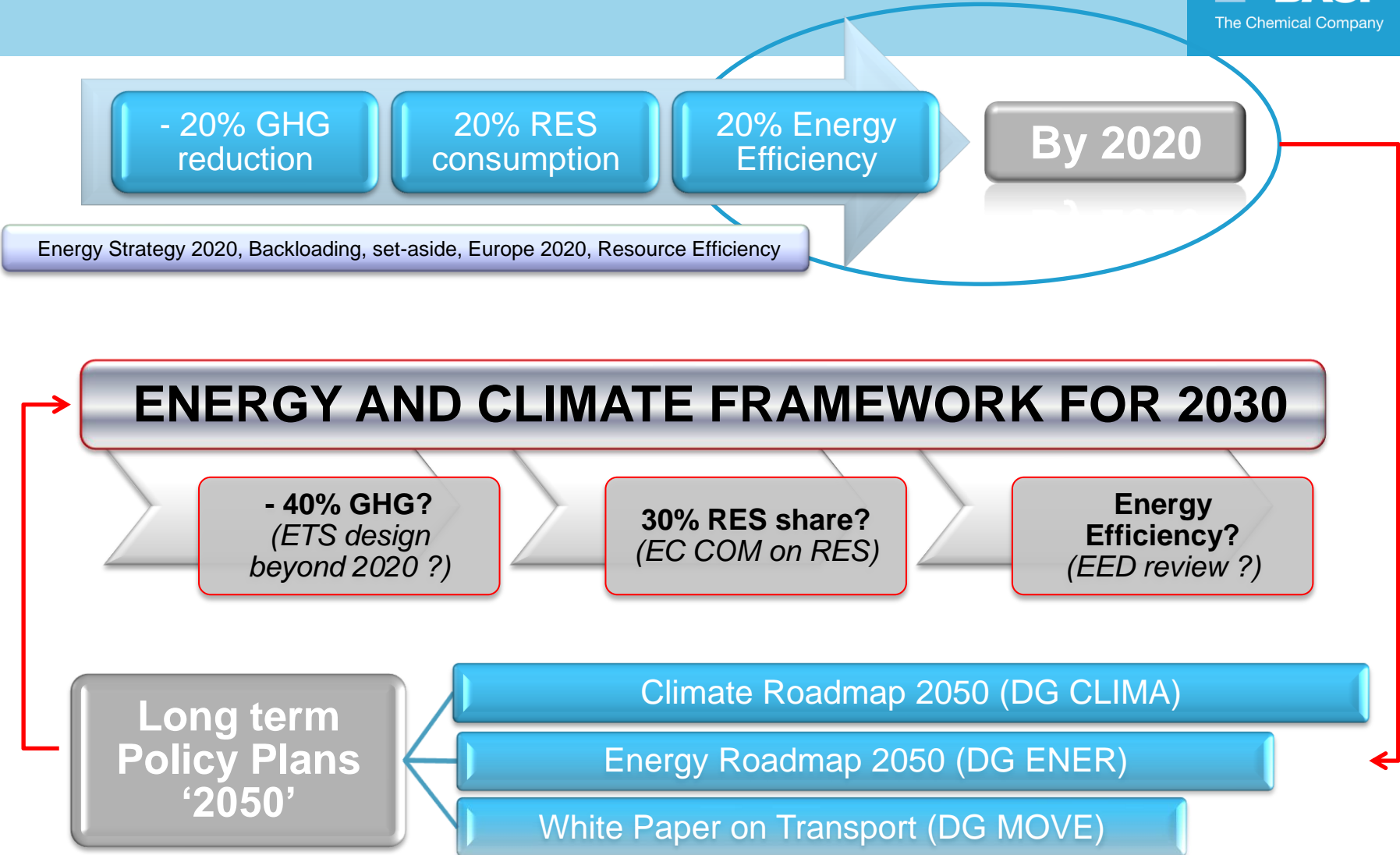


Urea plant

# Energy balance BASF SE 2012



# EU Energy & Climate Policy 2020 – 2030 – 2050: scheme



# Energy & Climate policy framework 2030: key issues

- *Targets:*
  - Targets for 2030?
  - Sector targets? Legally binding?
- *Instruments:*
  - Policy Instruments to meet potential new targets?
  - Contribution of Research & Development
- *Competitiveness & Security of Supply*
  - Take account of national developments
  - Ensure internationally competitive and affordable energy prices
- *Effort Sharing*
  - Equitable distribution of efforts among MS
  - Different investment capacities of sectors and consumer groups?

# Energy & Climate policy 2030 – calendar 2013/14

## 19 & 20/09/2013: Informal meeting of Ministers for Energy

- Presentation of the public consultation results on the Commission's Green Paper
- Pre-results of impact assessment on energy prices?
- Draft proposal for energy and climate package 2030?

15 & 16/10/2013: European Gas Regulatory Forum (Madrid)



## 12/12/2013: Meeting of Transport, Telecommunications and Energy Council (Energy)

- Proposal for the 2030 framework for climate & energy package (White Paper?)



12 & 13/11/2013 European Electricity Regulatory Forum (Milan)



## 19 & 20/12/2013: European Council



## February 2014: European Council on Competitiveness

- Adoption of 2030 target(s), incl. structural reform of ETS



# Energy Council: draft agenda 12 December

## ■ *Legislative deliberations*

- (poss.) Proposal for a Directive of the European Parliament and of the Council on EU Sustainability Criteria for Solid and Gaseous Biomass (First reading)  
= (poss.) Progress report

## ➤ *Non-legislative activities*

- Strengthening of the external dimension of the EU energy policy: Follow-up to the Council conclusions on strengthening the external dimension of the EU energy policy of November 2011 and to the Commission Communication of September 2011 on Security of Energy Supply and International Cooperation  
= Information from the Presidency and the Commission  
= Exchange of views
- Follow up of the European Council conclusions of February 2011 and May 2013 and monitoring of the process towards the completion of the EU internal energy market by 2014  
= Information from the Presidency and the Commission  
= Exchange of views
- (poss.) 2030 framework for climate and energy policies  
= Information from the Presidency and the Commission  
= (poss.) Exchange of views