

Kristina Haverkamp, 03.03.2017, Bruges

PLANNING AND MONITORING IN GERMANY

INTRODUCTORY THOUGHTS

- **GERMANY HAS A LONG HISTORY OF ENERGY TRANSITION MOVEMENTS THAT IS DRIVEN BY THE PUBLIC (I.E. OPPOSITION TO NUCLEAR ENERGY, ECOLOGIC MOVEMENT)**
- **FIRST PHASE: GETTING RES OUT OF A NICHE AND MAKING THEM A CENTRAL PILLAR OF GERMAN ENERGY SYSTEM**
- **SECOND PHASE: GERMAN ENERGY TRANSITION IS IN TRANSITION ITSELF (I.E. RES SYSTEM INTEGRATION, ENERGY EFFICIENCY, DIGITALISATION)**
- **ENERGIEWENDE CAN ONLY BE SUCCESSFUL IF IT IS DONE IN A EUROPEAN CONTEXT**
- **A CLEAR REGULATORY FRAMEWORK, BETTER COOPERATION AND COORDINATION ARE NEEDED FOR A SUCCESSFUL ENERGY TRANSITION IN EUROPE**

ENERGY CONCEPT 2010: „POLITICAL“, QUANTITATIVE AND QUALITATIVE TARGETS

➤ **„POLITICAL“ TARGETS:
ENERGY SUPPLY MUST BE SECURE, AFFORDABLE AND SUSTAINABLE**

➤ **QUANTITATIVE TARGETS:**

- Renewables
- Energy Efficiency and Consumption
 - Electricity
 - Buildings
 - Mobility
- GHG

ENERGY CONCEPT 2010: „POLITICAL“, QUANTITATIVE AND QUALITATIVE TARGETS

QUALITATIVE TARGETS:

- Security of supply,
- affordable energy and competitiveness,
- energy grids
- sector coupling,
- energy transition in the European and international context,
- research and innovation,
- investments/growth/employment

CF. EUROPEAN TARGETS („FIVE DIMENSIONS“): ENERGY SECURITY, ENERGY MARKET, ENERGY EFFICIENCY, DECARBONIZATION, RESEARCH, INNOVATION AND COMPETITIVENESS

QUANTITATIVE TARGETS: ENERGY CONCEPT 2010 +++

ENERGY CONCEPT 2010

Goal	2020	2050
Reduction in greenhouse gas emissions (reference year 1990)	40%	80%*
Reduction in primary energy consumption (reference year 2008)	20%	50%
Reduction in electricity consumption (reference year 2008)	10%	25%
Reduction of heat requirement in buildings (reference year 2008)	20%	80%
Increase in the share of renewable energies of total energy consumption	18%*	60%
Doubling of the energy refurbishment rate to 2% in order to achieve an almost climate neutral building stock by 2050		

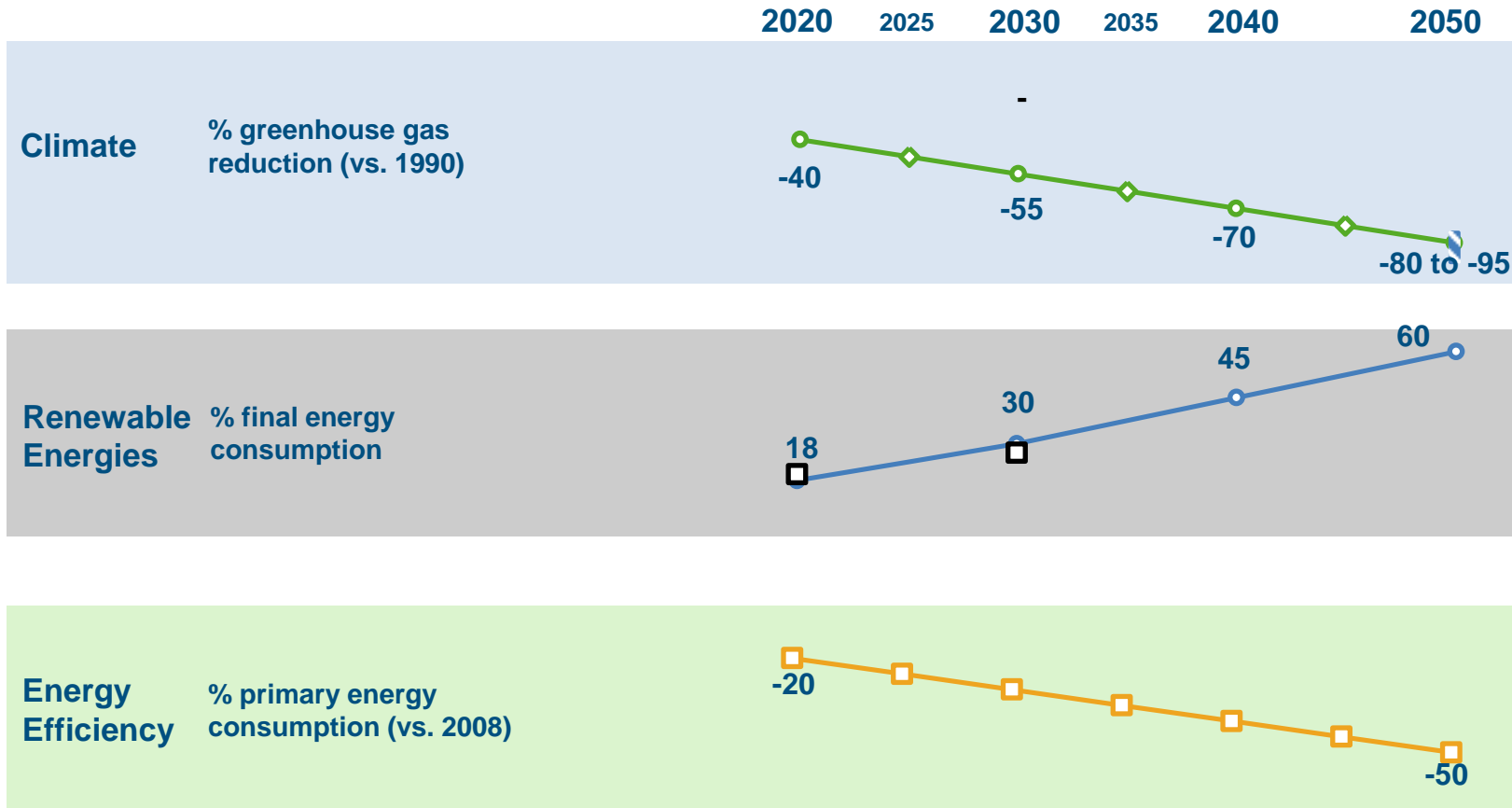
+ Climate Protection Plan 2050 (2016)

- 80-95% in 2050
- 55-56% in 2030

+ Renewable Energy Act (2014)

- by 2025 40 – 45 %
 - by 2035 55 – 60 %
- (gross electricity consumption)

TIMELINE QUANTITATIVE TARGETS



* 2013

Source: Federal Government 2010, BMU/BMWi 2014, AGEE-Stat 2014, AGE 2015, updated 2016, EU 2050 Roadmap, Eurostat

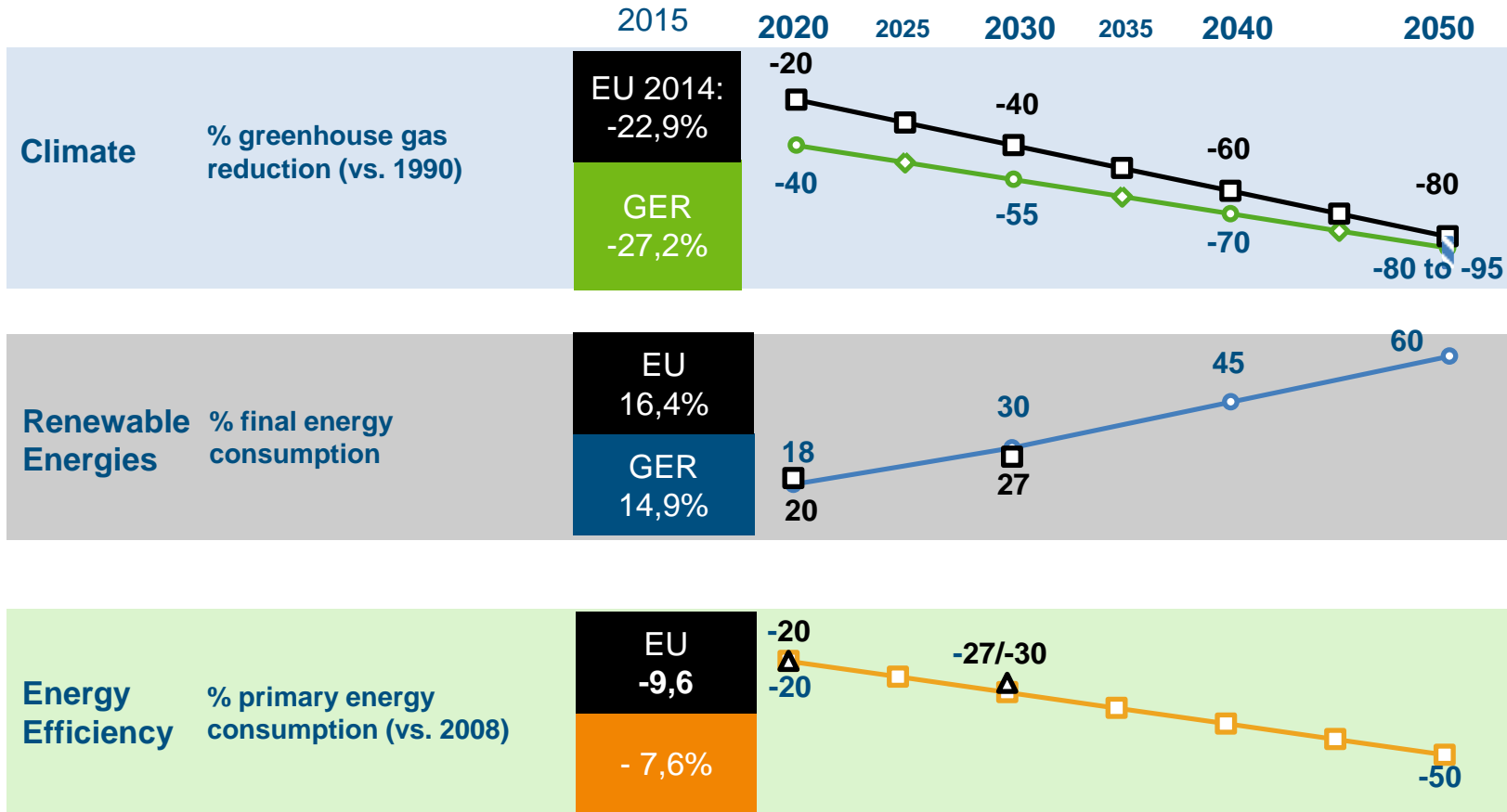
CLIMATE PROTECTION PLAN 2050 (2016)

SECTOR SPECIFIC QUANTITATIVE TARGETS

Handlungsfeld	1990 (in Mio. t CO ₂ -Äq.)	2014 (in Mio. t CO ₂ -Äq.)	2030 (in Mio. t CO ₂ -Äq.)	2030 (Minderung in % ggü. 1990)
Energiewirtschaft	466	358	175 – 183	62 – 61 %
Gebäude	209	119	70 – 72	67 – 66 %
Verkehr	163	160	95 – 98	42 – 40 %
Industrie	283	181	140 – 143	51 – 49 %
Landwirtschaft	88	72	58 – 61	34 – 31 %
Teilsumme	1209	890	538 – 557	56 – 54 %
Sonstige	39	12	5	87%
Gesamtsumme	1248	902	543 – 562	56 – 55 %

Source: Klimaschutzplan 2050, BMUB

WHERE DO WE STAND?



* 2013

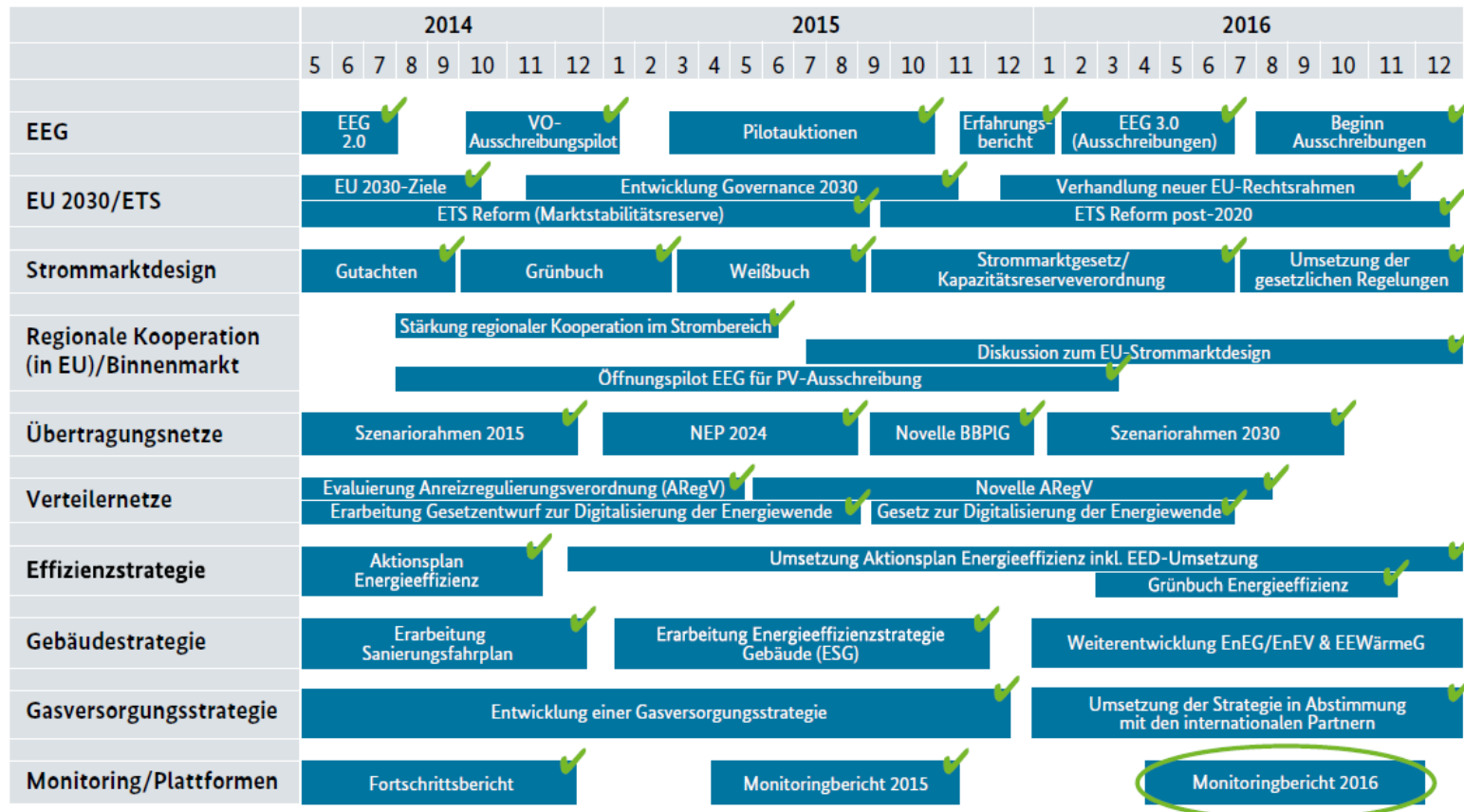
Source: Federal Government 2010, BMU/BMWi 2014, AGEE-Stat 2014, AGEB 2015, updated 2016, EU 2050 Roadmap, Eurostat

PLANNING MEASURES?

- **AS YET NO COMPREHENSIVE INTEGRATED PLAN FOR MEASURES**
- **COALITION TREATY (2013 - 2017)**
- **„10 POINT ENERGY AGENDA“ COVERING 2014 – 2016**
- **ACTION PLANS AND STRATEGIES, IN PARTICULAR:**
 - „Mobility and Fuel Strategy“ (2012)
 - „National Action Plan on Energy Efficiency“ (2014)
 - „Efficiency Strategy for Buildings“ (2015)
- **CLIMATE PROTECTION PLAN 2050 (2016),**
 - also provides for Measure Plans including quantitative reduction targets per measure every five years (starting 2018)

PLANNING: 10-POINT AGENDA

Abbildung 1.1: Monitoring als Bestandteil der „10-Punkte-Energie-Agenda“ des BMWi



Quelle: Eigene Darstellung BMWi 12/2016

MONITORING

ENERGY CONCEPT (2010):

- Annual Monitoring Report of the Federal Government to Parliament: state of attainment of the quantitative and qualitative targets during the past year (compilation of facts plus assessment)
- Accompanied by the report of an independent Expert Commission (4 scientists) with critical comments and recommendations
- Every three years, the Monitoring Report is replaced by a Progress Report covering the past three years (identification of long term trends)

CLIMATE PROTECTION PLAN 2050 (2016):

- Annual Climate Protection report
- Update Climate Protection Plan every 5 years, starting 2019/2020

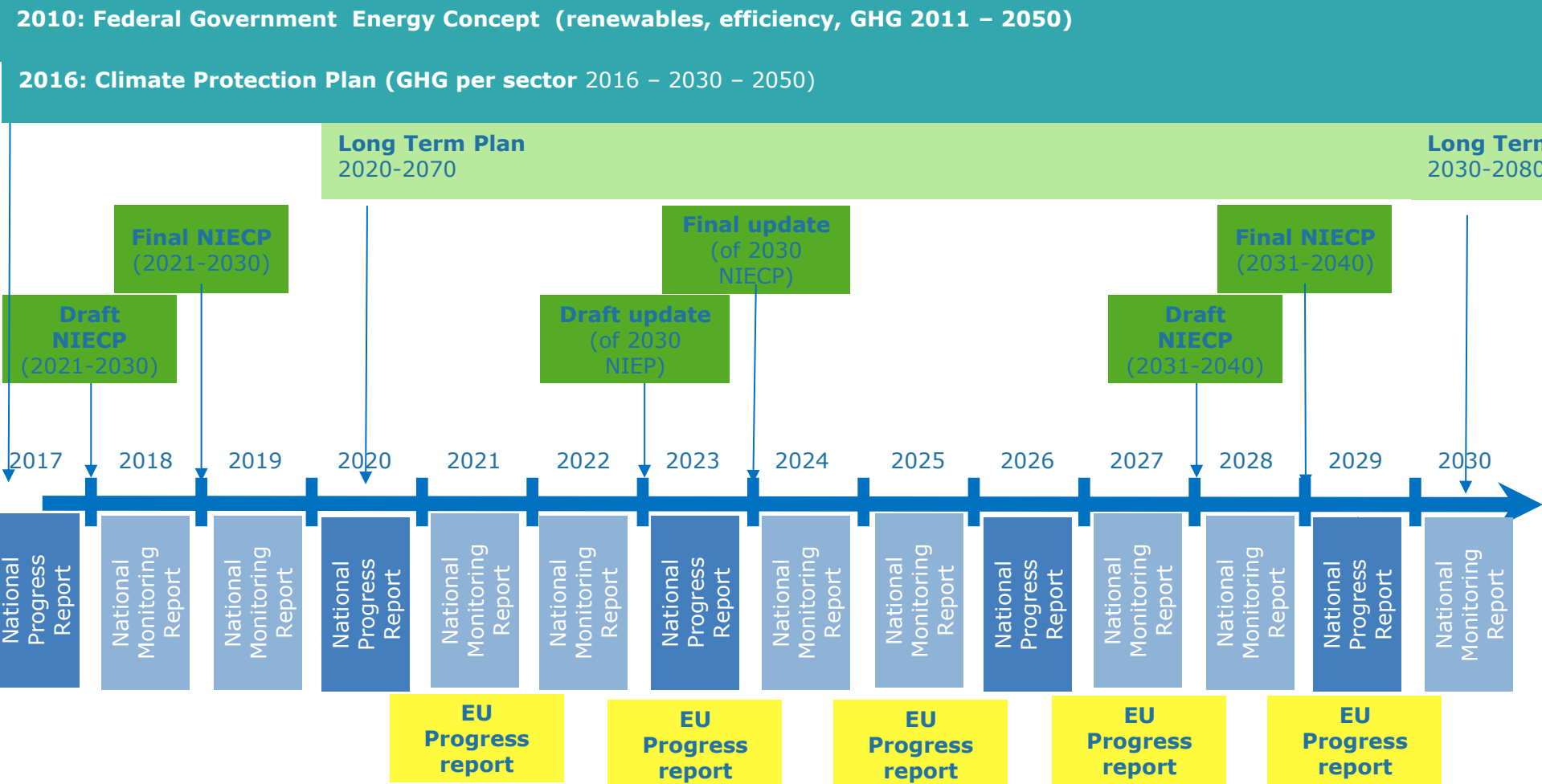
REPORTING/MONITORING: GERMANY

2010: Federal Government Energy Concept (Efficiency & Renewables & GHG Targets 2011 - 2050)

2016: Climate Protection Plan (sector specific GHG targets 2016 – 2030 – 2050)



PLANNING & REPORTING: GER & EU



THANK YOU FOR YOUR ATTENTION.

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