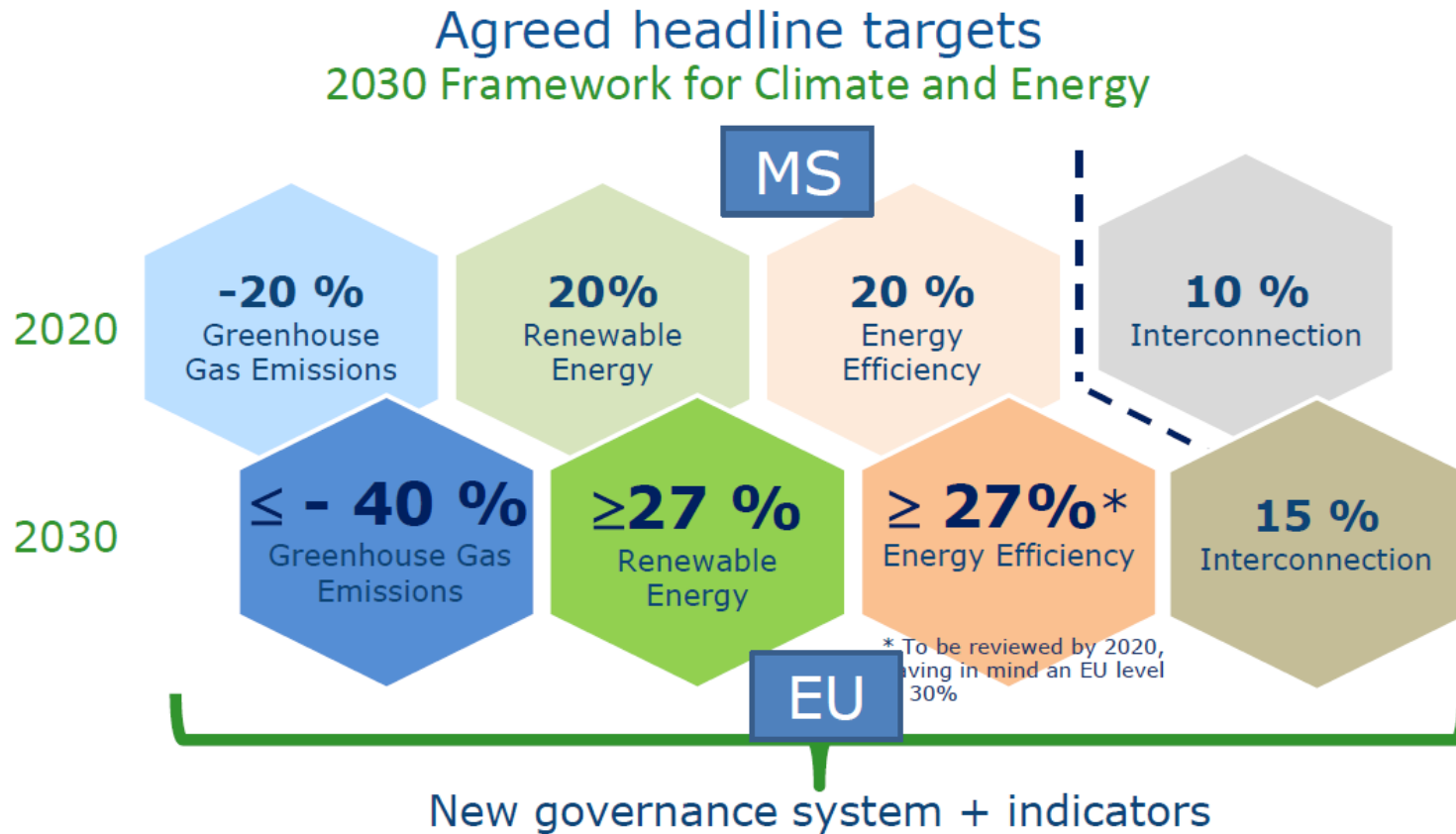


Cost Assessments of European climate-energy policy



Source: EC, DG-ENERGY

Investments needed

- ✓ Average annual additional investments are projected to amount to €38 billion for the EU as a whole over the period 2011-30

(Source: EC Climate Action)

- ✓ EFSI, the European Fund for Strategic investments has allocated to the **energy sector 29%** of financing approved by the European Investment Bank (EIB)

Cost Assessments of European climate-energy policy

Of which
EUR 12.5 bn
signed

EIB Group figures

As of 23/09/2016

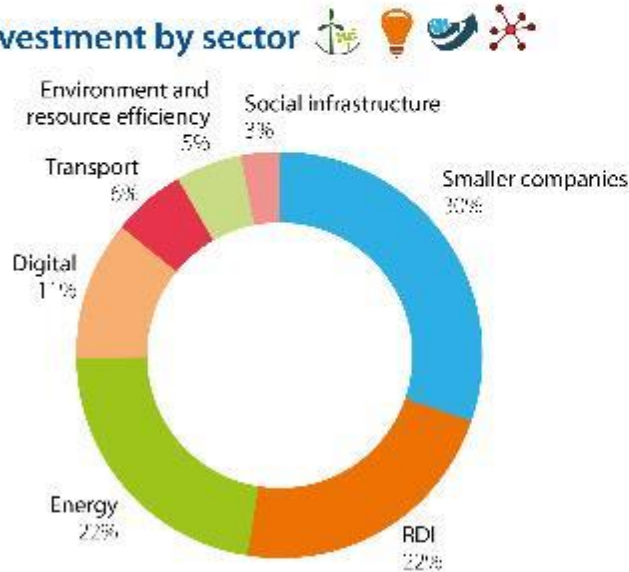


EUR **22.3 bn**

EUR **127.2 bn**

EIB approved: EUR 15.3bn
EIF approved: EUR 7bn

EFSI investment by sector



324 approved transactions in 27 of 28 EU countries



Cost Assessments of European climate-energy policy

EFSI Project list

Title	Country	EFSI financing	Total investment related to EFSI	Sector	Approval date
Diorama Hellenic Growth Fund	Greece	20m	Not disclosed	Digital Environment and resource efficiency Smaller companies	19/07/2016
Toscana energia gas network & metering	Italy	90m	151m	Energy Smaller companies	19/07/2016
Digital innovation	Sweden Finland Denmark	100m	253m	Digital	19/07/2016
Agricoover loan for SMEs	Romania	15m	54m	Smaller companies	19/07/2016
Daher industrial and product innovation	France	60m	147m	RDI	19/07/2016
CUBE Infrastructure Fund II	EU Countries Switzerland Norway	100m	Not disclosed	Transport Environment and resource efficiency Digital Energy	16/06/2016
Malin corporation - Life Sciences Investments	United Kingdom Ireland	70m	1425m	Smaller companies Social infrastructure RDI	16/06/2016
Società Gasdotti Italia - Gas transmission	Italy	44m	88m	Energy Smaller companies	16/06/2016
NBG loan for SMEs and Midcaps	Greece	215m	Not disclosed	Smaller companies	16/06/2016
Fond - ICO Risk Sharing loan	Spain	125m	Not disclosed	Smaller companies	19/05/2016
APERAM R&D and Cohesion regions	France	50m	Not disclosed	RDI	19/05/2016
Automotive Steel RDI	United Kingdom Sweden Spain Germany France	160m	330m	RDI	19/05/2016
Tripla near-zero Energy Building project	Finland	130m	Not disclosed	Energy Environment and resource efficiency	19/05/2016
Calvin Smartmeter roll-out	United Kingdom	52m (1st tranche)	2115m	Energy	19/05/2016
Fonds SPI - Sociétés de projets industriels	France	100m	Not disclosed	Smaller companies RDI	12/04/2016

Cost Assessments of European climate-energy policy

Some Recently Funded Industrial Projects

DAHER INDUSTRIAL AND PRODUCT INNOVATION

Reference: 20150215
Release date: 18 November 2015

Promoter – Financial Intermediary

DAHER

Location

► France

Description

The project entails research, development and innovation (RDI) activities related to the development of new materials and components for aircraft, including external doors, fuselage and wing elements. Part of the project includes fixed capital expenditures related to advanced manufacturing technology, process innovation and some capacity expansion at the promoter's main manufacturing and supply centres. The project is located at the promoter's main technology and manufacturing centres in France.

Objectives

The project will contribute to increasing the promoter's knowledge and know-how in the field of components for aircraft.

Comments

Sector(s)

► Industry

Proposed EIB finance (Approximate amount)

EUR 60 million

Total cost (Approximate amount)

EUR 196 million

AUTOMOTIVE STEEL RDI

Reference: 20150868
Release date: 12 April 2016

Promoter – Financial Intermediary

GESTAMP AUTOMOCION SA

Location

- Germany
- France
- Sweden
- United Kingdom
- Spain

Description

The project comprises investments in research, development and innovation (RDI) for automotive mechanisms, body-in-white and chassis. The project will mainly be carried out in Gestamp's existing premises in Germany, Spain, Sweden, UK and France. The project will be implemented in the period 2016-2019.

Objectives

The project will help to increase the promoter's knowledge and know-how in technologies related to the manufacturing of metal automotive components. Due to the promoter's close collaboration with customers and suppliers, the project is also expected to contribute to the diffusion of new knowledge and bring about a positive stimulus to further research and development (R&D) and innovation.

Comments

Sector(s)

► Industry

EFSI financing

EUR 160,00 million

Related total EFSI investment

EUR 330,00 million

Proposed EIB finance (Approximate amount)

EUR 160 million

FONDS SPI - SOCIETES DE PROJETS INDUSTRIELS

Reference: 20150435
Release date: 24 February 2016

Promoter – Financial Intermediary

BPI-GROUPE

Location

► France

Description

The project concerns participation in a fund backed by the French government via the Programme d'Investissement d'Avenir. The fund is managed by BPI France, which regroups Oséo, CDC Entreprises, the Fond Stratégique d'Investissement (FSI) and FSI Régions.

Objectives

The fund is earmarked to take minority positions in joint venture with private sector entities, mostly small and medium-sized enterprises (SMEs) and mid-caps in the manufacturing sectors, enabling them to industrialise new technologies, processes and products.

Comments

Sector(s)

► Services

EFSI financing

EUR 100,00 million

Proposed EIB finance (Approximate amount)

EUR 100 million

Total cost (Approximate amount)

EUR 650 million



Press corner

All press releases

All other news

Press contacts

Events

EIB's e-newsletter

Project stories

Publications

Public register

Picture library

Video library

Contact

EIB approves EUR 7 billion of new loans and launches discussion on extending Investment Plan for Europe

📅 Release date: 23 September 2016

📄 Reference: 2016-214-EN

Meeting in the Maltese capital of Valetta, the Board of Directors of the European Investment Bank approved more than EUR 7.3 billion of new loans for investment in strategic infrastructure, the environmental and knowledge economy as well as private sector schemes across Europe and around the world, including ground breaking new projects in Malta. 18 of these loans, worth EUR 2.8 billion will be backed by the European Fund for Strategic Investments.

Plans to extend the European Fund for Strategic Investments at the heart of the Investment Plan for Europe until 2020, proposed by the European Commission, were discussed for the first time and endorsed in principle by the Board of the European Investment Bank.

Cost Assessments of European climate-energy policy

✓ Large infrastructure investments needed

e.g. 800 km “Stromautobahn” project in Germany to be completed 2025 –

Cost estimate of €15 billion

Mögliche Erdkabelkorridore für Ökostrom

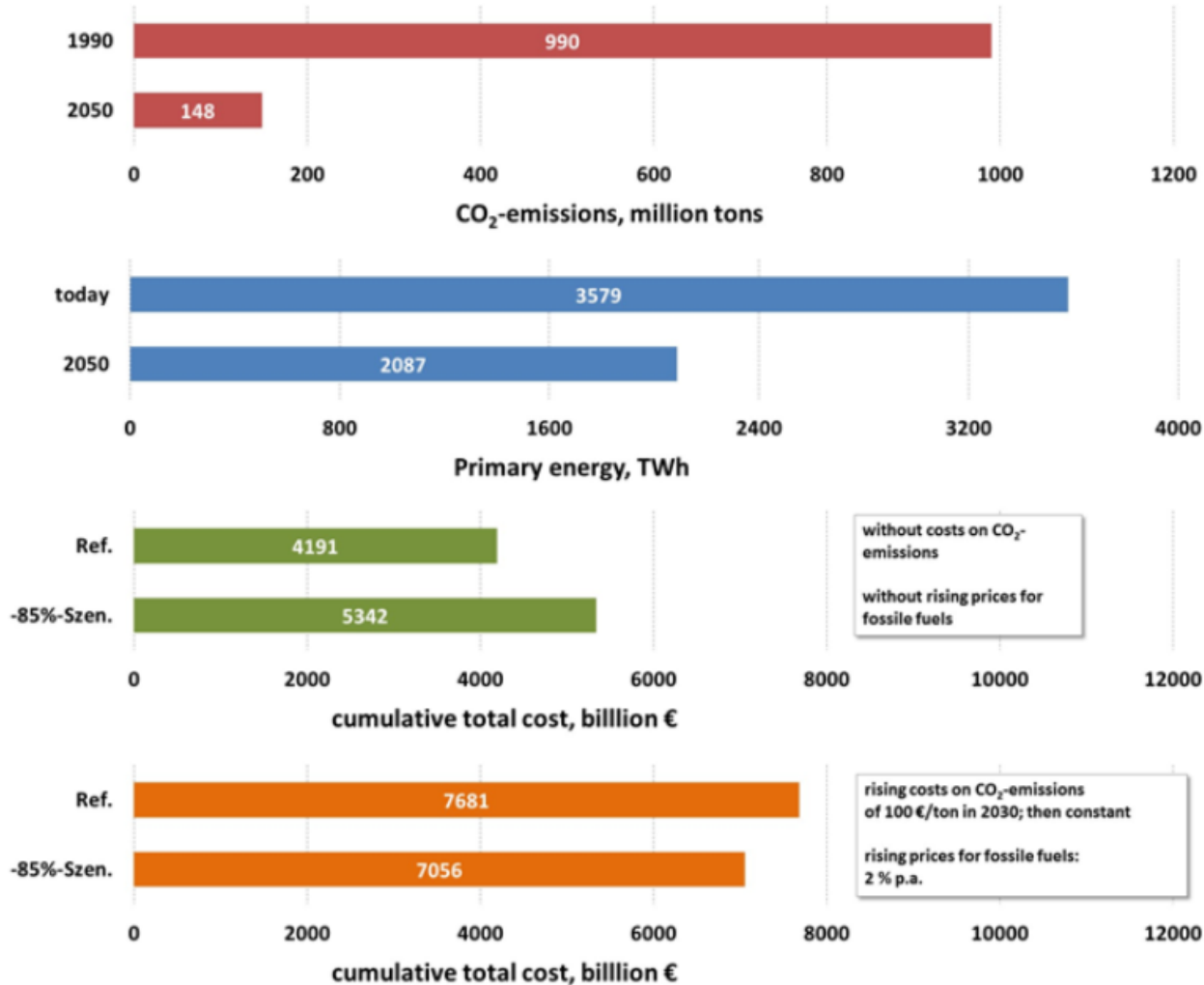
Schematische Darstellung

- Luftlinie
-  Erdkabelkorridor
-  in Planung befindlicher Netzverknüpfungspunkt
-  Ballungsraum
-  Gebirge und Wald
-  wichtige Flora-Fauna-Gebiete
-  Bundeslandgrenze

welt (Stand: September 2016)



Cost Assessments of European climate-energy policy



Source: Hans-Martin Henning, Andreas Palzer - Fraunhofer Institute For Solar Energy Systems ISE, Freiburg

WHAT WILL THE ENERGY TRANSFORMATION COST? PATHWAYS FOR TRANSFORMING THE GERMAN ENERGY SYSTEM BY 2050

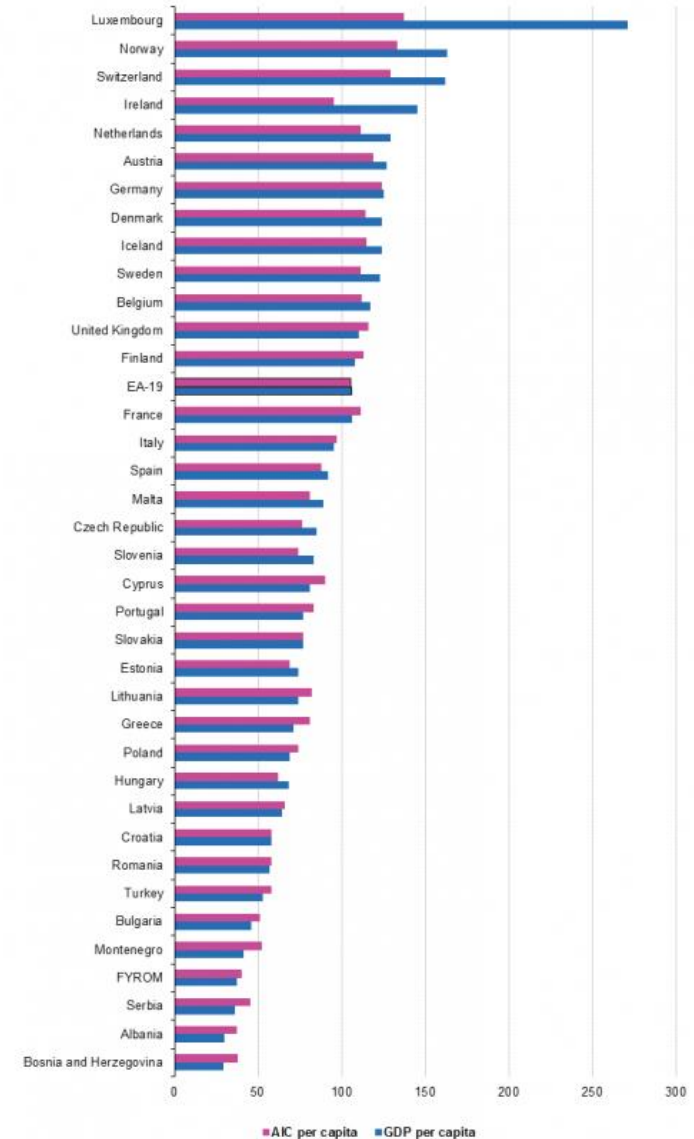
Cost Assessments of European climate-energy policy

- Lower-income countries need to make relatively larger efforts compared to GDP

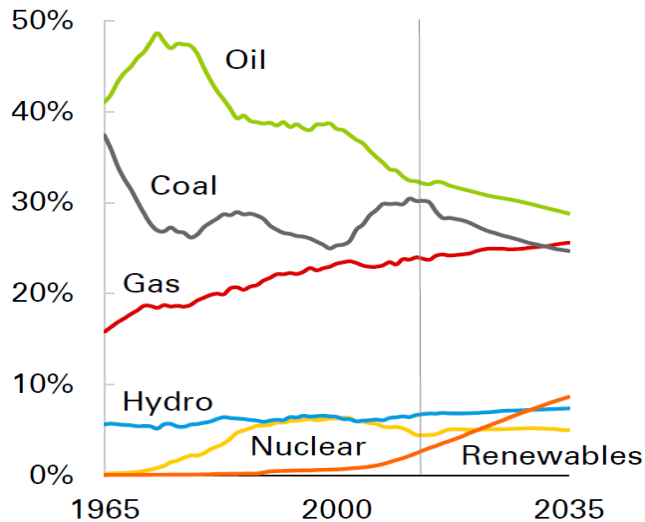
EC Conclusions October 2014 - EUCO 169/14

A reserve of 2% of the EU ETS allowances will be set aside to address particularly high additional investment needs in low income Member States (GDP per capita below 60% of the EU average)

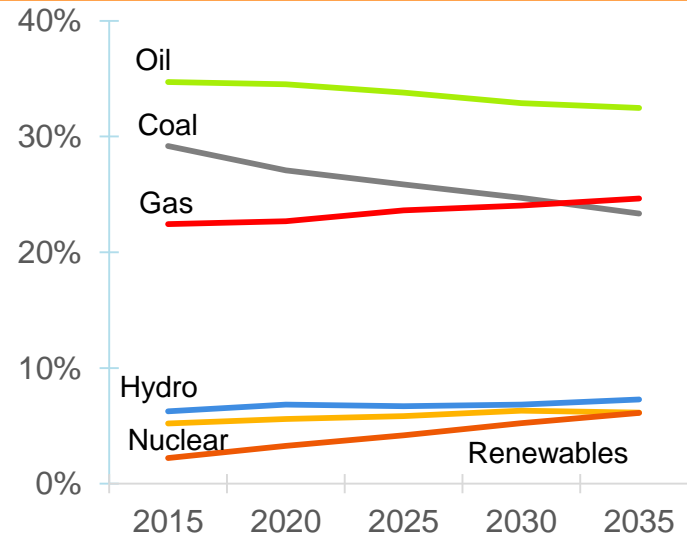
- ✓ the proceeds from the reserve will be used to improve energy efficiency and to modernise the energy systems allowances from the reserve will be auctioned
- ✓ 10% of the EU ETS allowances to be auctioned by the Member States will be distributed among those countries whose GDP per capita did not exceed 90% of the EU average



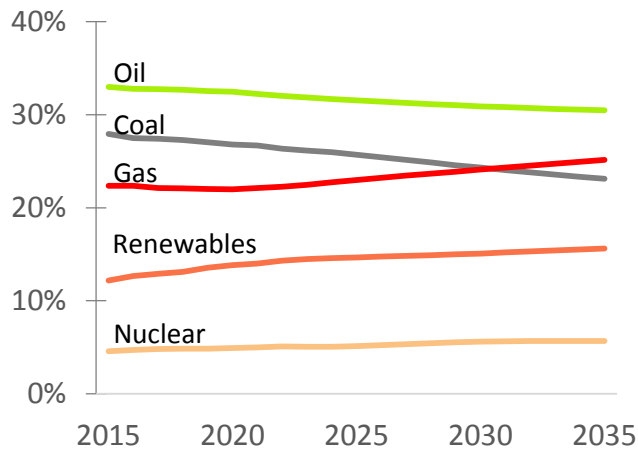
Cost Assessments of European climate-energy policy



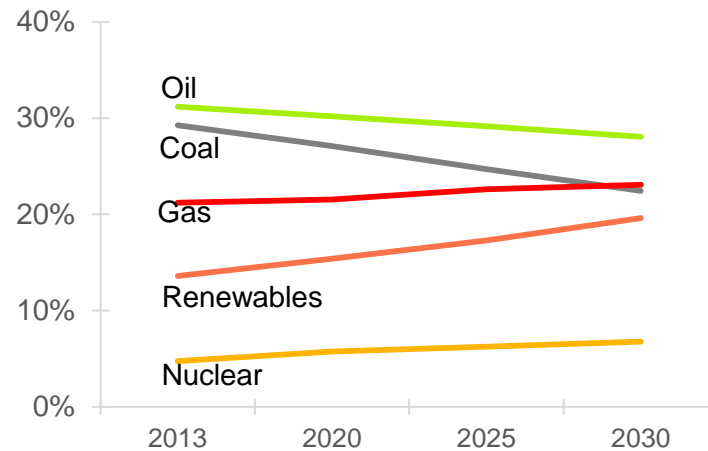
Source: BP Energy Outlook 2016



Data Source: MIT Joint Program Energy and Climate Outlook 2015



Data Source: EIA International Outlook 2016



Data Source: IEA WEO SR 2015, *Bridge Scenario*