

ISPI

ITALIAN INSTITUTE
FOR INTERNATIONAL
POLITICAL STUDIES

Politiche energetiche e climatiche dell'Unione europea

Massimo Lombardini
Ricercatore Associato ISPI
Università Cardinale Giovanni Colombo
30 gennaio 2026

ISPI SCHOOL

Struttura della conversazione

Dalla Comunità all'Unione europea

Politiche energetiche e climatiche dell'Unione europea

Green Deal e rapporto Draghi

9 Maggio 1950 - la dichiarazione di Schuman

25 Marzo 1957 - Trattati di Roma



1952 – 2002 Comunità europea carbone e acciaio (CECA)

1957 Comunità economica europea (CEE)

1957 CEEA (Euratom)

BREXIT



MAP OF THE EUROPEAN UNION



Istituzioni dell'Unione europea

Parlamento europeo

Consiglio europeo (Summit)

Commissione europea

Banca Centrale

Corte di Giustizia

Corte dei Conti



Teresa Ribera Rodríguez
Executive Vice-President
Clean, Just and
Competitive
Transition



Ursula von der Leyen
President



Henna Virkkunen
Executive Vice-President
Tech Sovereignty,
Security and
Democracy



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Commissioner
Trade and Economic Security
Interinstitutional Relations
and Transparency



Valdis Dombrovskis
Commissioner
Economy and
Productivity
Implementation
and Simplification



Dubravka Šuica
Commissioner
Mediterranean



Olivér Várhelyi
Commissioner
Health and
Animal Welfare



Wopke Hoekstra
Commissioner
Climate,
Net Zero and
Clean Growth



Andrius Kubilius
Commissioner
Defence and
Space



Marta Kos*
Commissioner
Enlargement



Stéphane Séjourné
Executive Vice-President
Prosperity and
Industrial
Strategy



Jozef Síkela
Commissioner
International
Partnerships



Costas Kadis
Commissioner
Fisheries and
Oceans



María Luís Albuquerque
Commissioner
Financial Services
and the Savings
and Investments
Union



Hadja Lahbib
Commissioner
Preparedness
and Crisis
Management
Equality



Kaja Kallas
High Representative/
Vice-President
Foreign Affairs
and Security
Policy



Magnus Brunner
Commissioner
Internal Affairs
and Migration



Jessika Roswall
Commissioner
Environment,
Water Resilience
and a Competitive
Circular Economy



Piotr Serafin
Commissioner
Budget,
Anti-Fraud
and Public
Administration



Dan Jørgensen
Commissioner
Energy and
Housing



Roxana Mînzatu
Executive Vice-President
People,
Skills and
Preparedness



Ekaterina Zaharieva
Commissioner
Startups, Research
and Innovation



Michael McGrath
Commissioner
Democracy,
Justice and
the Rule of
Law



**Apostolos
Tzitzikostas**
Commissioner
Sustainable
Transport and
Tourism



Raffaele Fitto
Executive
Vice-President
Cohesion
and Reforms



**Christophe
Hansen**
Commissioner
Agriculture
and Food



Glenn Micallef
Commissioner
Intergenerational
Fairness, Youth,
Culture and
Sport



*Pending formal nomination. National proceedings ongoing.

Dan Jannik Jørgensen

Dan Jørgensen

Commissioner-designate for Energy and Housing

Dear Dan,

The Commission we will serve in together will be called upon to make choices that will shape our Continent and our Union for years and decades to come. In a time of great global instability and great expectations of Europeans, we must live up to that responsibility. **We must deliver and lead from the front**, working closely with the people and regions of Europe and the parliaments, governments and institutions that serve them.

This was the spirit of the Political Guidelines which I presented to the European Parliament in July 2024 – our common plan for European strength and unity. It focuses on ensuring our **security** in every sense in a more dangerous and turbulent world, on supporting people and citizens by strengthening our **prosperity**, our social market economy, green and digital transitions and sustaining our unique quality of life. We will strengthen our **democracy**, rally around our values and ensure that we are stronger at home. We will work with our partners and better assert our interests around the world.

Together, we will respond to the real and legitimate concerns and expectations that Europeans expressed at the last elections. We will be closer to people and businesses where it really matters with practical support and sustained investment. We will strive to **make Europe faster and simpler** in the way that we act – and in the way we interact with people. And we will work towards European unity at every turn, starting from within our College.

I am convinced that your experience, motivation, and European commitment will be an





DIRECTOR-GENERAL
DITTE JUUL JØRGENSEN

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MARILENE STENNETT

PRINCIPAL ADVISER
TUDOR CONSTANTINESCU

ADVISOR FOR POLICY DEVELOPMENT AND REVIEWS

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EURATOM SUPPLY AGENCY
MICHAEL HUEBEL

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STEFANO CICCARELLO

ENER.TFH
HOUSING STRATEGY AND COORDINATION
STEFAN BISSON

ENER.TFH
TASK FORCE HOUSING (TFH) ¹
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DEPUTY DIRECTOR-GENERAL
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PIERRE SCHELLEKENS

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PULLA ABEDI MARGUES

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EMELHART WITTMANN

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KRISTINA BRONKA

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Rosalinde VAN DER VLIJS

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ALEJANDRO ELZORRIN DE ASANEA

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ENER.B.3
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ROBERT MARJ

ENER.B.4
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ADVISOR FOR ENERGY TRANSITION AND ACCESS TO FINANCE
ETSI ALBE

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LUKASZ KOJLINSKI

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PALLABEY GARCIA

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DECARBONISATION AND SUSTAINABILITY OF ENERGY SOURCES
KITTI NYSTROM

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INTERNAL ENERGY MARKET
CHRISTOPH LESSNER

ENER.C.4
INFRASTRUCTURE AND REGIONAL COOPERATION
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ADVISOR FOR GREEN TRANSITION AND MARKET REGULATION
TOMASZEW

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EURATOM POLICY COORDINATION
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RADIATION PROTECTION & NUCLEAR SAFETY
ANA RITA LOPES RAMOS

ENER.D.4
ITER
BENOIT FOURRESTE (acting)

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EURATOM SAFEGUARDS
STEPHAN LECHNER

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EURATOM IT SUPPORT
PAUL MARJOT

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NICOLAS BERT

ENER.E.4
INSPECTIONS, REACTORS, GEOLOGICAL REPOSITORIES AND OTHER INSTALLATIONS
FLORENCE JABES

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NUCLEAR ACCOUNTANCY AND INTERNATIONAL OBLIGATIONS
ALESSANDRA POLTI

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ENERGY SECURITY AND INTERNATIONAL RELATIONS
CRISTINA LOBILLO BORRERO

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DIVERSIFICATION STRATEGY AND JOINT PURCHASING
MACEJ CZYŻWAŃSKI

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RELATIONS WITH THE MEMBER STATES AND THE ENERGY COMMUNITY
YOLANDA GARCIA MEDRERA

ENER.F.3
INTERNATIONAL RELATIONS
ISAAC VALERO

ENER.F.4
ENERGY SECURITY & SAFETY
HONIKA ŽOGER

ADVISOR FOR INTERNATIONAL JUST TRANSITION, NET-ZERO AND FUSION ENERGY
BEHAR DEJAN

ENER.SRD
SHARED RESOURCE DIRECTORATE MOVE/ENER
FREDERIC VERSINI (acting)

ENER.SRD.1
ASSURANCE AND SUPERVISION
FREDERIC VERSINI

ENER.SRD.2
INFORMATION MANAGEMENT AND SYSTEMS
DEJAN DVOŘANIK

ENER.SRD.3
BUDGET AND FINANCIAL MANAGEMENT
CRISTINA CUBREJA GARCIA

ENER.DG2.01 ²
EURATOM BUDGET AND ADMINISTRATIVE SUPPORT
LINA BARBERE

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HOUSING ENERGY EFFICIENCY
PETER BERENSON (acting)

ENER.D.3
EU ENERGY - LIFE CLIMATE
MARCO BERNI

ACER - AGENCY FOR THE COOPERATION OF ENERGY REGULATORS
Director
CHRISTIAN ZINGLERSEN

F4E - FUSION FOR ENERGY
Director
MARC LACHAISE

BDL: STAFF BASED IN BRUXELLES
LUX: STAFF BASED IN LUXEMBOURG

¹ THE HOUSING TASK FORCE DIRECTLY REPORTS TO THE COMMISSIONER FOR THE DURATION OF THE COMMISSION MANDATE
² UNIT DG2.01 HAS A FUNCTIONAL REPORTING LINE TO THE DIRECTOR SRD

SECONDED MANAGERS AND ADVISERS:
MICHAEL HAGER, SECONDED TO THE CABINET OF EXECUTIVE VICE-PRESIDENT DOMBROVSKI
PAULA PINHO, SECONDED TO THE COMMISSION'S SPOKESPERSONS' SERVICE
MIGUEL GIL TERTRE, SECONDED TO THE CABINET OF EXECUTIVE VICE-PRESIDENT RIBERA RODRIGUEZ

Treaty for the Functioning of the European Union (TFEU)

Firmato a Lisbona nel 2007 (Trattato di Lisbona) 1 Dicembre 2009



CONSOLIDATED VERSION OF THE TREATY ON THE FUNCTIONING OF THE EUROPEAN UNION**PART THREE
UNION POLICIES AND INTERNAL ACTIONS****TITLE XXI
ENERGY***Article 194*

1. In the context of the establishment and functioning of the internal market and with regard for the need to preserve and improve the environment, Union policy on energy shall aim, in a spirit of solidarity between Member States, to:

- (a) ensure the functioning of the energy market;
- (b) ensure security of energy supply in the Union;
- (c) promote energy efficiency and energy saving and the development of new and renewable forms of energy; and
- (d) promote the interconnection of energy networks.

2. Without prejudice to the application of other provisions of the Treaties, the European Parliament and the Council, acting in accordance with the ordinary legislative procedure, shall establish the measures necessary to achieve the objectives in paragraph 1. Such measures shall be adopted after consultation of the Economic and Social Committee and the Committee of the Regions.

Such measures shall not affect a Member State's right to determine the conditions for exploiting its energy resources, its choice between different energy sources and the general structure of its energy supply, without prejudice to Article 192(2)(c).

3. By way of derogation from paragraph 2, the Council, acting in accordance with a special legislative procedure, shall unanimously and after consulting the European Parliament, establish the measures referred to therein when they are primarily of a fiscal nature.

Treaty for the Functioning of the European Union (TFEU)

Firmato a Lisbona 2007 (Trattato di Lisbona) 1 Dicembre 2009

Articolo 194 Energia:

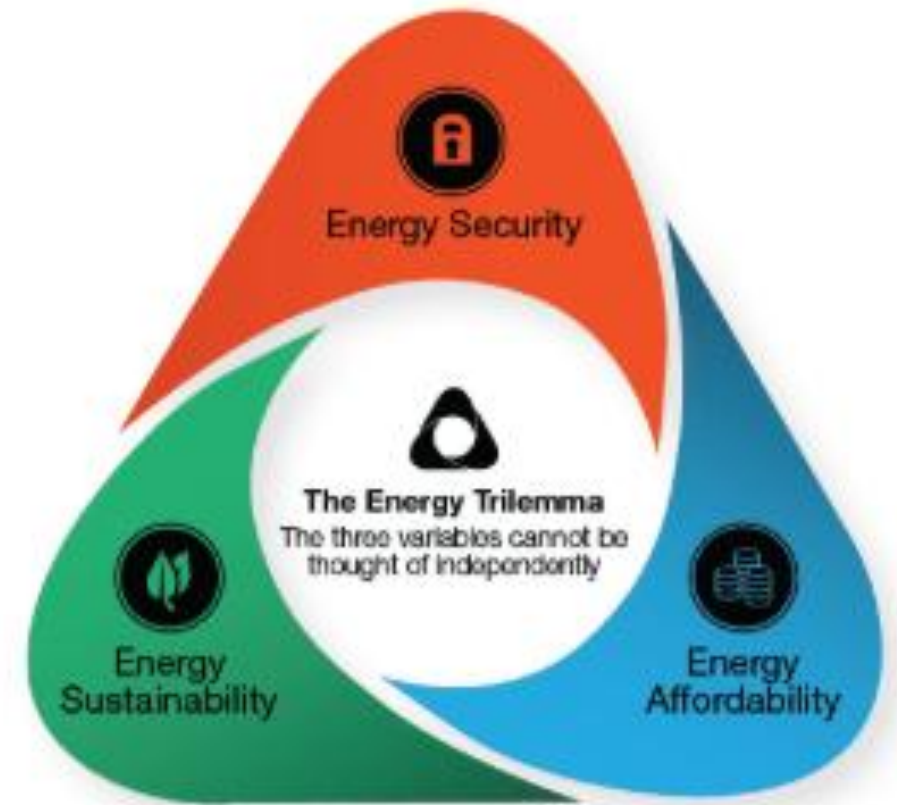
- 1 . promozione efficienza energetica
 - 2 . sviluppo fonti rinnovabili
 - 3 . assicurare il funzionamento del mercato interno dell'energia
 - 4 . promuovere l'interconnessione del mercato energetico (serve network)
 - 5 . assicurare la sicurezza degli approvvigionamenti dell'Unione europea
- **Stati decidono mix energetico e sfruttamento delle risorse energetiche**
 - **Misure fiscali richiedono l'unanimità**

Il trilemma energetico

Energy security = sicurezza energetica

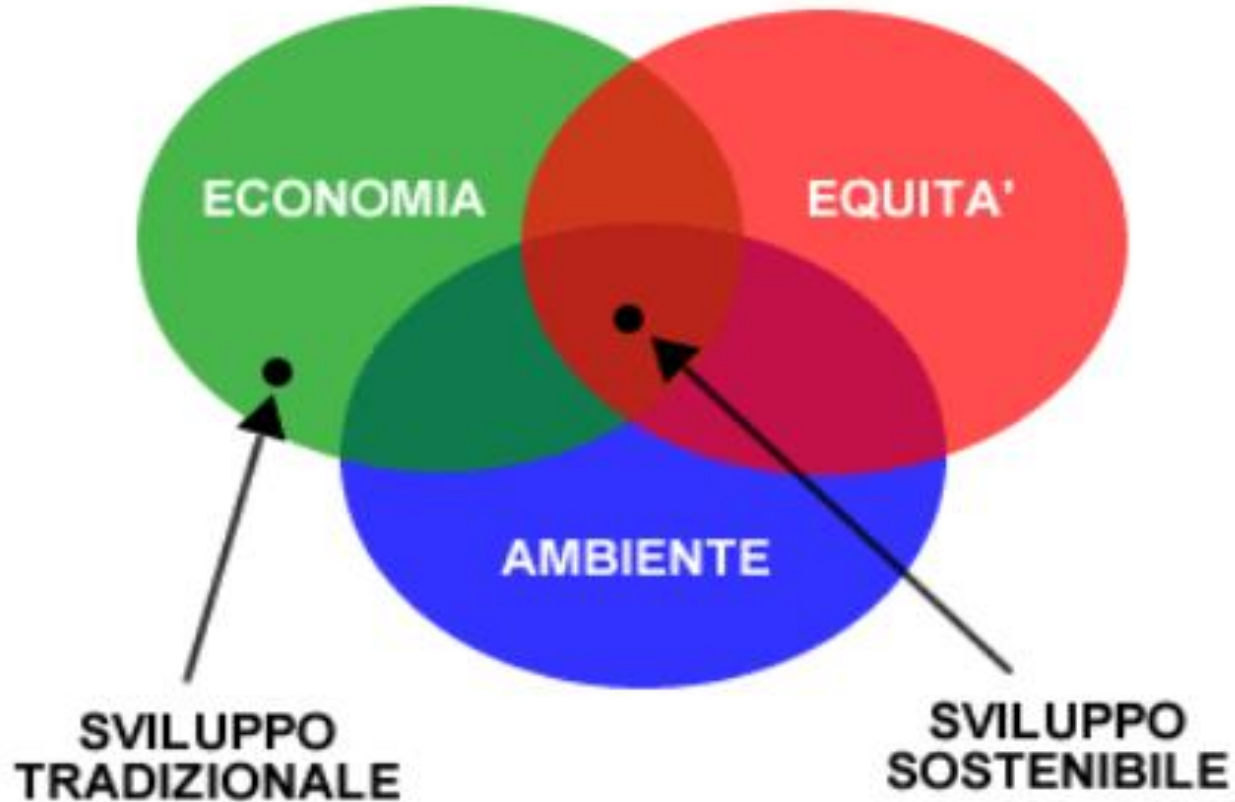
Energy sustainability = sostenibilità

Affordability = prezzi accessibili per cittadini e imprese



1987 Rapporto Brundtland “Our common future”


'development that meets the needs of the present without compromising the ability of future generations to meet their own needs'



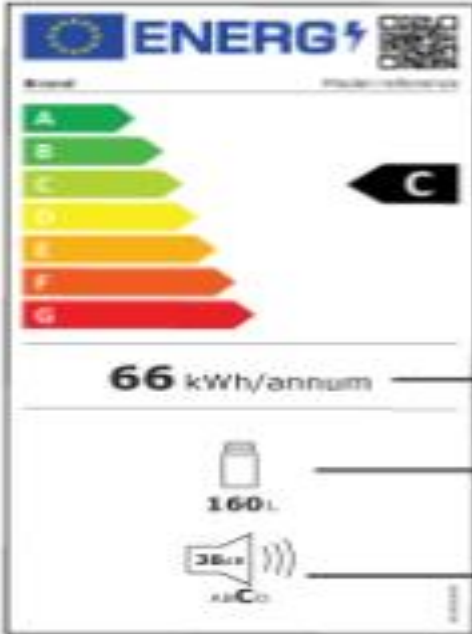
1 Efficienza Energetica label e ecodesign

How to recognise a rescaled product ?

Current energy label



New energy label



The **QR code** gives access to more information on the model

The **rescaled energy efficiency class** for this fridge, an **A+++** in the previous label

The **annual energy consumption** of this fridge is calculated with refined methods

The **volume** of the fridge expressed in liters (L)

The **noise level** measured in decibels (dB) and using a four classes scale

The energy labels for a fridge without freezer

1 Efficienza Energetica degli edifici (EPBD)

Edifici 40% energia e 36% emissioni

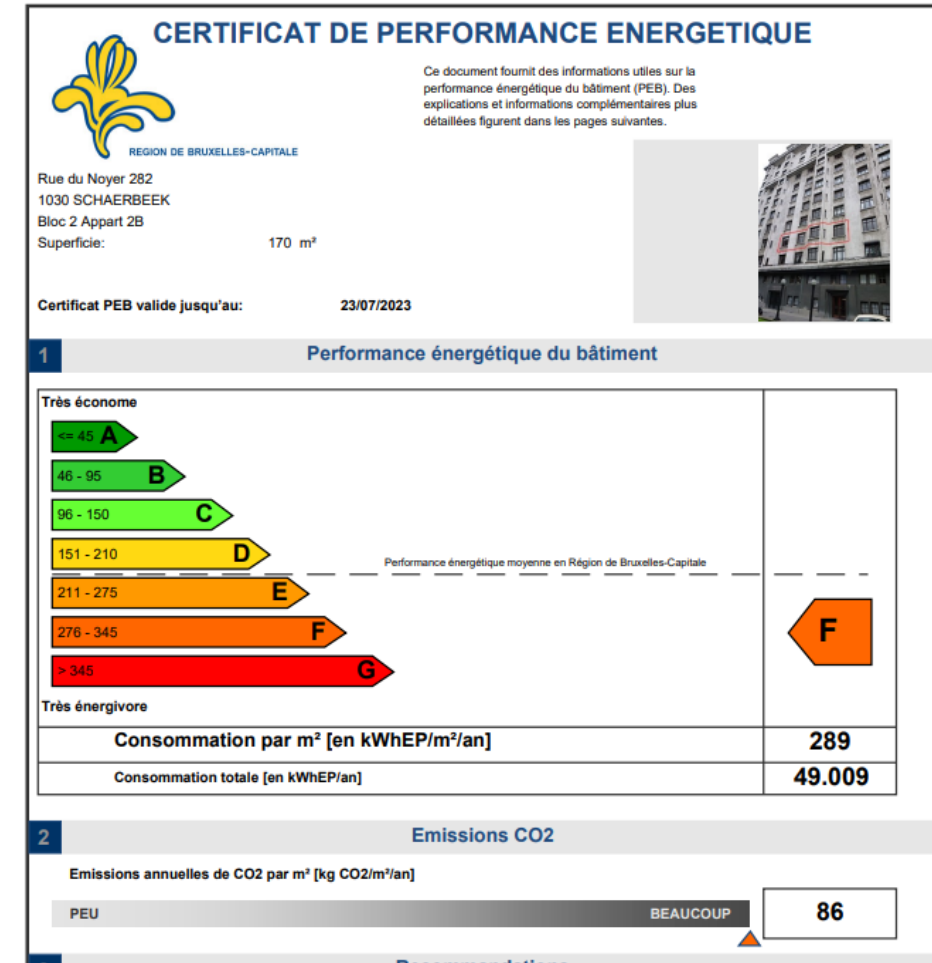
Obbligo certificazione

I nuovi edifici NZEB

Rinnovazione solo 1% all'anno da portare al 2%

Non residenziale rinnovo 16% più inefficiente al 2030

Eliminare caldaie alimentate da combustibili fossili



2 Sviluppo fonti rinnovabili REDIII

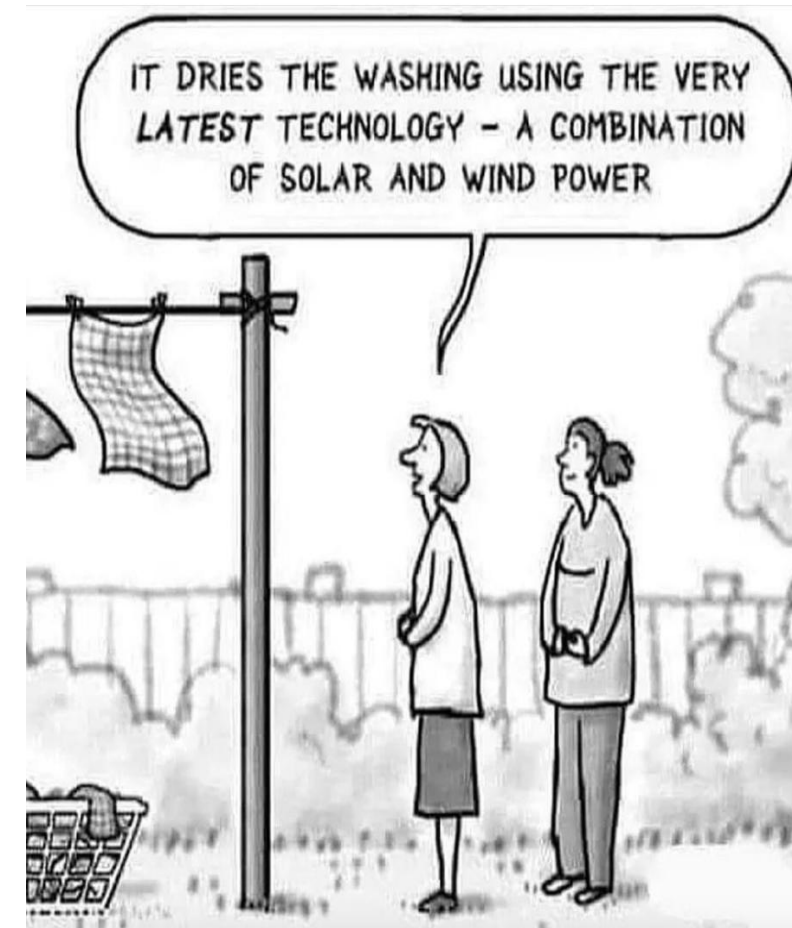
Evitare confusione fra elettricità e energia

Renewable Energy Directive (RED)

Pacchetto 2020 rinnovabili 20% al 2020 (RED I)

Pacchetto 2030 rinnovabili 32% al 2030 (RED II)

Fit for 55 rinnovabili 42.5 - 45% al 2030 (RED III)



3 Funzionamento del mercato interno

Third Energy Package (gas e elettricità) 9/2009:

- **Separazione societaria (Unbundling)**
- **Non discriminatory third party access (TPA)**
- **Regolatori Indipendenti Nazionali (ARERA in Italia)**
- **Agenzia cooperazione regolatori energia (ACER)**
- **Mercato europeo, aperto e trasparente**



4 Promouovere l'interconnessione del mercato energetico

Libera circolazione elettroni e molecole di gas

Rete trasporto di gas e elettricit  nell'Ue

Trans European Energy Network (TEN-E)

PCI Project of common interest

Esempio crisi del gas del 2009



5 Sicurezza approvvigionamenti dell'Unione europea

IEA energy security = uninterrupted availability of energy sources at an affordable price

Regolamento stock petroliferi (90 giorni import)

Sicurezza oltre conflitti geopolitici (Katrina e 2003)

Diversificazione = suppliers, sources, routes (NSII)

Autosufficienza non è = a indipendenza



North Stream I + Nord Stream II = 110 miliardi m³ un grande errore geopolitico



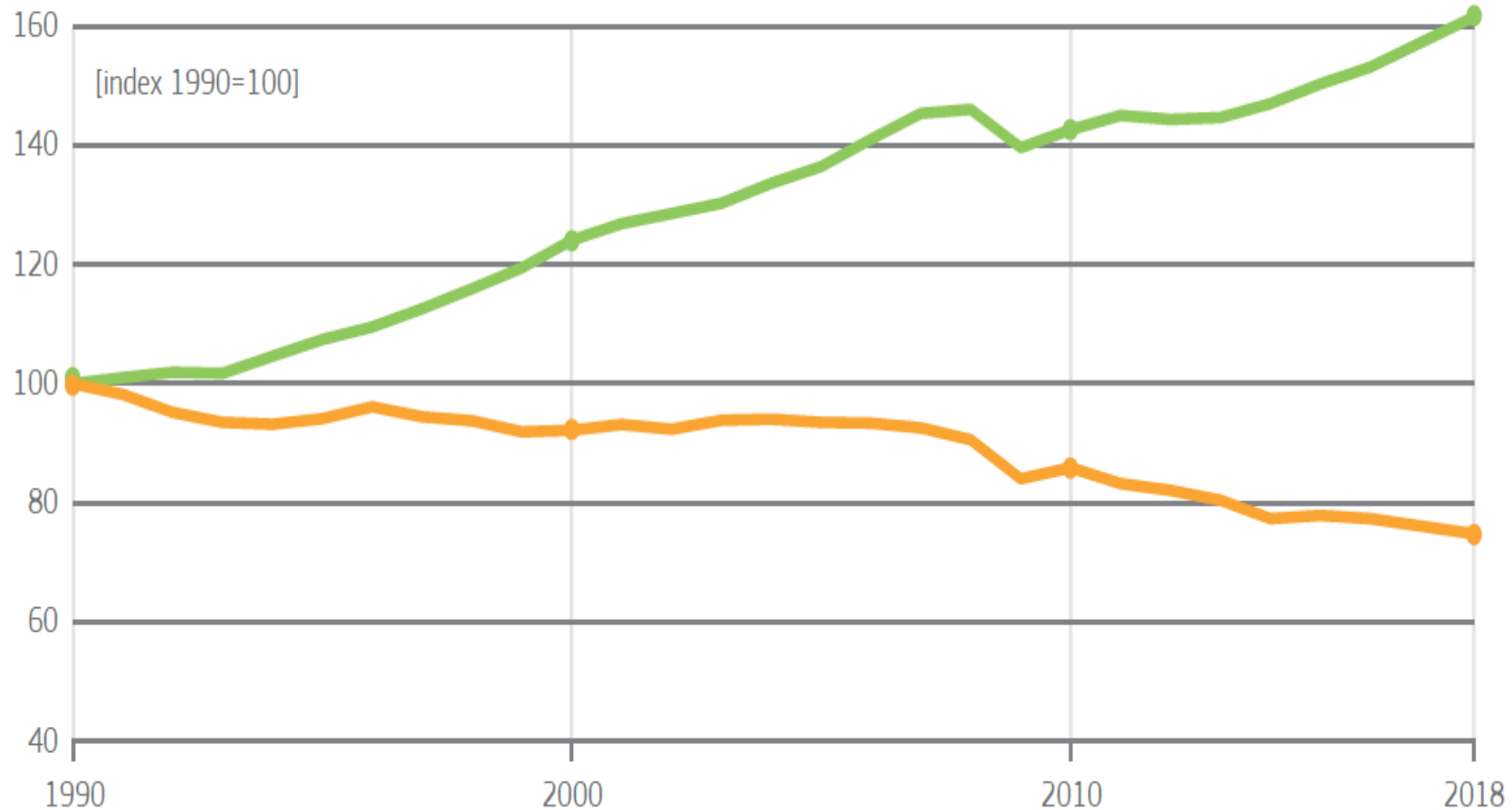
I quattro pacchetti legislativi energia e clima dell'UE

Evitare lista della spesa di Regolamenti, ricordiamo quattro pacchetti:

- Pacchetto 2020 20% emissioni, 20% rinnovabili e 20% efficienza energetica
- ~~- Pacchetto 2030 – COP21 40% emissioni, 32,5% efficienza energetica 32% rinnovabili~~
- Green Deal – Fit for 55 meno 55% emissioni per il 2030 e neutralità carbonica 2050
- REPower EU 8 Marzo 2022 dopo invasione Ucraina
- Proposta per il 2040 riduzione emissioni del 90% rispetto al 1990

Pacchetto 2020

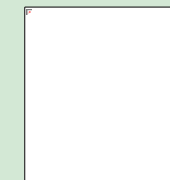
'mission accomplished'



PIL



Emissioni di gas a effetto serra



Tra il 1990 e il 2018
le emissioni di gas a
effetto serra **sono**
diminuite del 23 %,
mentre l'economia **è**
cresciuta del 61 %

Fine 2019 lancio del Green Deal Europeo

Il Green Deal europeo è la tabella di marcia per **rendere sostenibile l'economia dell'UE**. Realizzeremo questo obiettivo solo trasformando le sfide climatiche e ambientali in opportunità in tutti i settori politici e rendendo la transizione giusta e inclusiva per tutti.



Fit for 55 per implementare il Green Deal

7/2021 - Fit for 55 per implementare Green Deal

Ridurre emissioni del 55 % entro il 2030

Perchè neutralità climatica entro il 2050

Nuovi obiettivi riduzione del 90% al 2040 !!!!????

UE solo 6% emissioni Climate Diplomacy è necessaria

**Ci vuole una seria
strategia per il 2050**



Obiettivi REPowerEU dopo invasione dell'Ucraina

Eliminare gas Russo al 2030 (ora al 30/9/2027)

Rinnovabili da 40 a 45% per 2030 (go-to areas)

Solar strategy 600 GW entro il 2030

50 miliardi m³ gas naturale liquefatto in più

35 BCM Biometano al 2030



Emissions Trading System

Emission Trading Scheme (ETS)

Tetto massimo alle emissioni UE

Ogni anno emissioni ridotte

Chi ha emesso meno vende quote

Cap and trade
Mechanism of the [EU ETS](#)

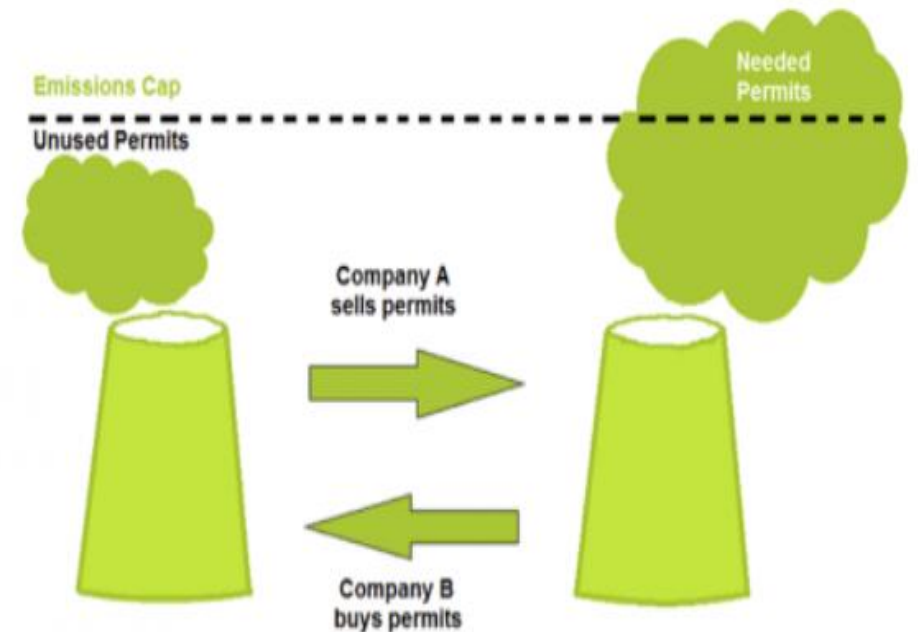


Figure 1: If companies emit less than the cap, they are permitted to sell the excess carbon permits to companies that are polluting more. The company polluting less will profit from this transaction.

Carbon Border Adjustment Mechanism (CBAM)

Tassa CO₂ all'ingresso nella UE di sette prodotti

Tassa CO₂ = ETS – [ETS pagato nel paese di origine]

Level playing field, no carbon leakage

Per il momento solo reporting

CEMENT

IRON & STEEL

ALUMINIUM

FERTILISERS

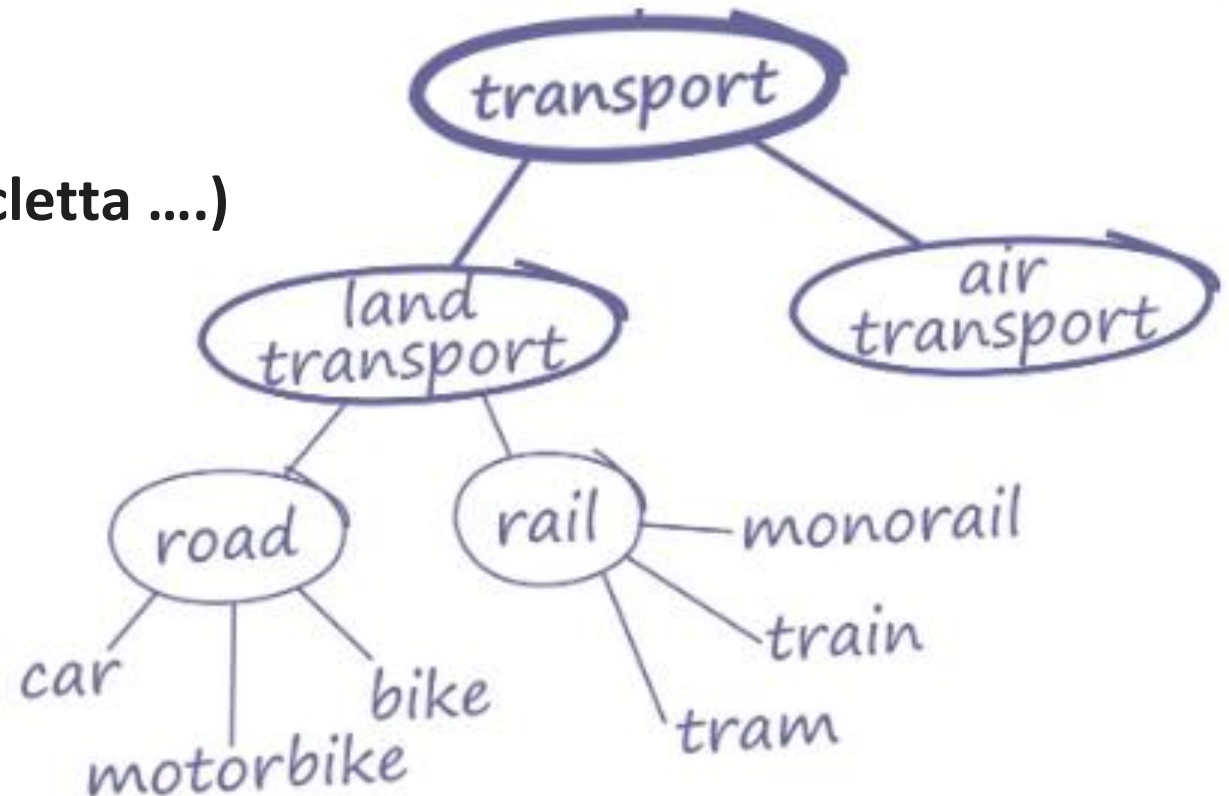
ELECTRICITY

HYDROGEN

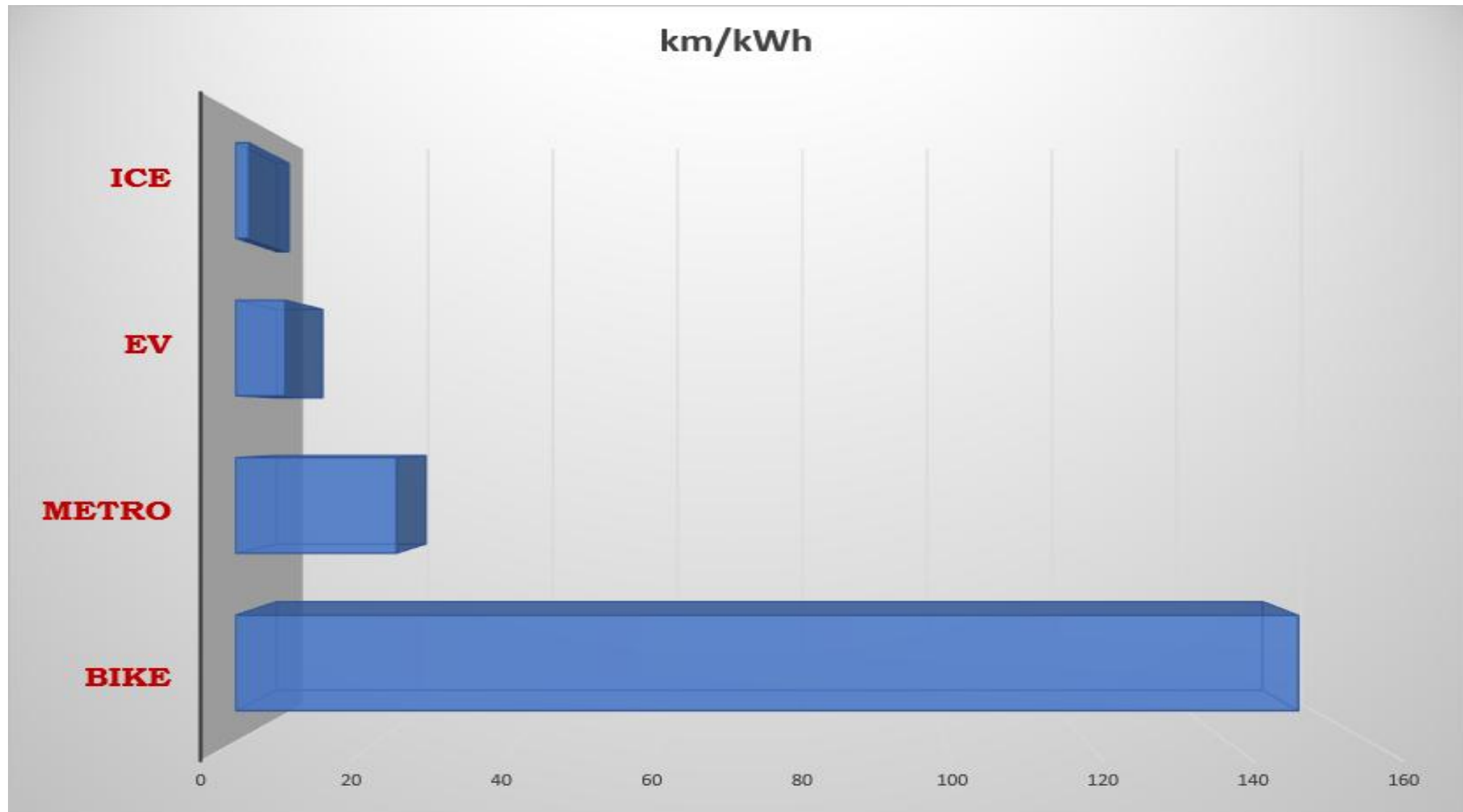
Trasporti = 25% consumo di energia Unione europea

Cosa manca nella mappa mentale (mind mapping)

- ... trasporto marittimo
- ... trasporto terrestre (auto, moto, bicicletta)
- ... trasporto aereo



Decarbonizzazione del trasporto stradale



La fine del motore a scoppio



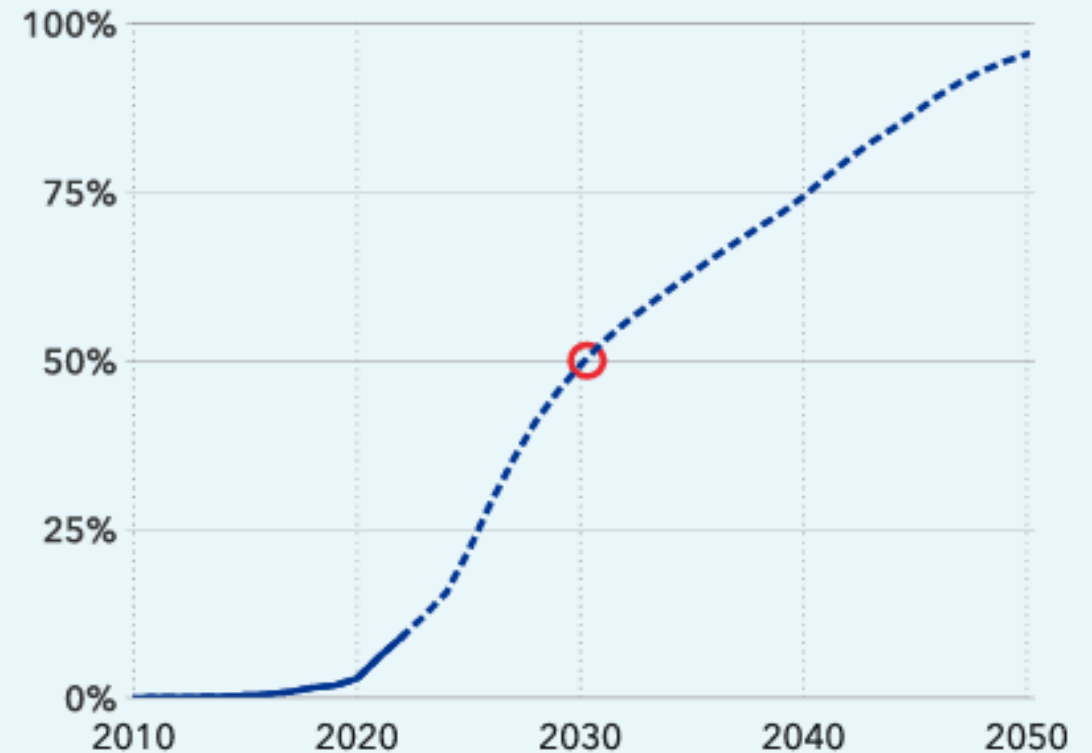
Penetrazione EV = 1 M₂₀₁₇, 10 M₂₀₂₂, 17 M₂₀₂₄ 22 M₂₀₂₅



HIGHLIGHT 2

Half of passenger vehicle sales are electric by 2031

Units: Percentages of sales



Il futuro dell'Unione europea

Il rapporto Draghi (non solo debito comune)

Quattro strategie energia

- Pannelli solari
- Auto elettriche
- Settori strategici (difesa)
- Settori con competitive hedge

Federalismo pragmatico



Istituzioni dell'Unione europea (Commissione, Parlamento)

Dan Jorgensen Commissario Energia

Direzione Generale Energia (DG ENER)

Trattato Lisbona - TFEU articolo 194 stabilisce competenze energetiche

- **Efficienza energetica**
- **Fonti rinnovabili**
- **Sicurezza approvvigionamenti**
- **Mercato interno energia**
- **Interconnessioni - Trans-European Energy Network (TEN-E/PCI)**

Pacchetti: 2020, ~~2030~~, Fit for 55 e REPowerEU

Futuro Unione europea - rapporto Draghi



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DI POLITICA
INTERNAZIONALE

<https://www.ispionline.it/it>

<https://www.ispionline.it/it/corsi/master-in-geopolitica-energia>

