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- Moderator Clemens Rohde
- IEA: Energy Efficiency for Crisis Response and Resilience (Ornella Delaccio)
- Short-term answers to price shocks by energy efficiency and energy sufficiency (Barbara Schlomann)
- *Strategic answers of energy efficiency to energy prices and competitiveness challenges. Insights from ODYSSEE-MURE (Wolfgang Eichhammer)*
- Energy Price Shocks in the U.S. and the Role of Energy Efficiency to Address These Shocks (Steve Nadel)
- Discussion


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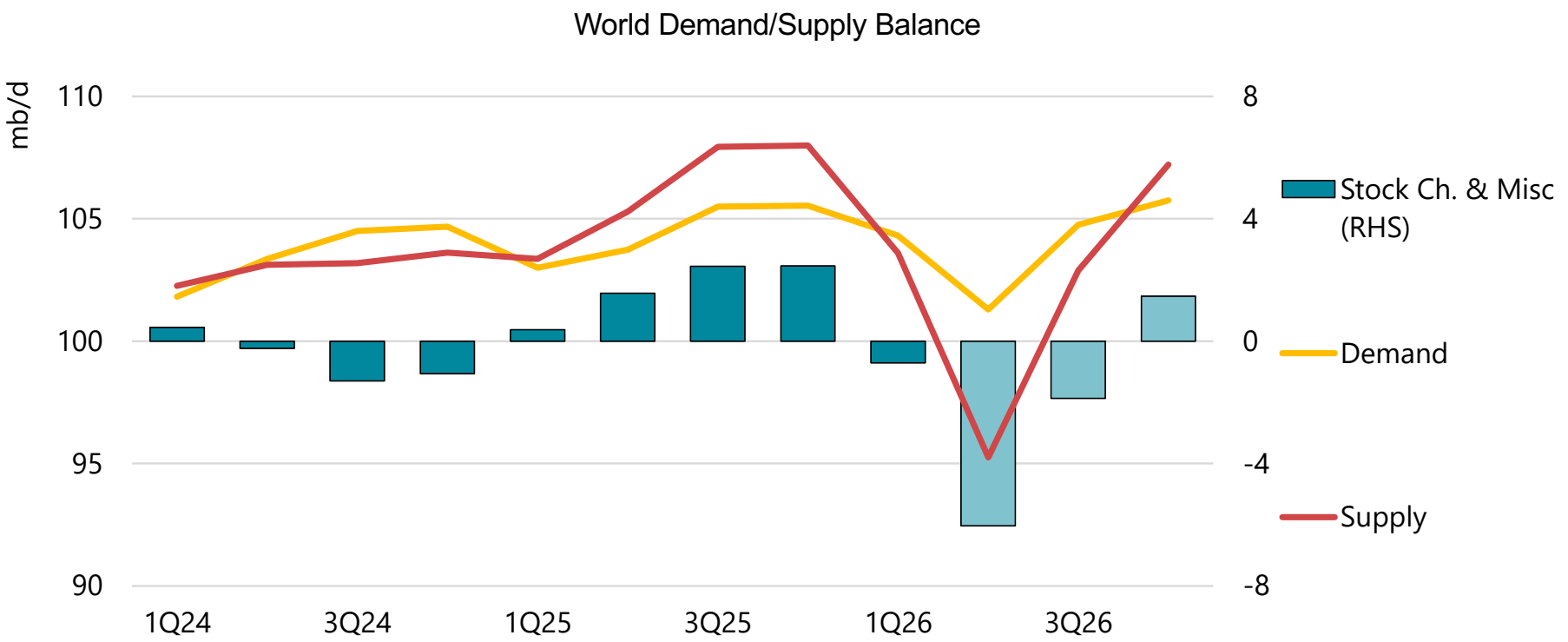
International Energy Agency

Energy Efficiency for Crisis Response and Resilience

Ornella Dellaccio (ornella.dellaccio@iea.org)

eceee Summer Study, 2 June 2026

Middle East conflict sparks unprecedented oil supply disruption



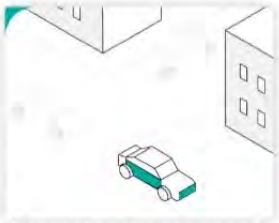
The conflict in the Middle East has created the largest supply disruption in the history of the global oil market, leading to mounting supply losses and depleted global oil stocks.

Demand-side measures help shelter consumers from the energy crisis

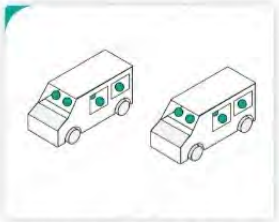
- The loss of supply is pushing up prices for crude oil above $100/barrel.
- On the supply-side, IEA member countries made 400 million barrels of oil available from **emergency reserves** on 11 March.
- **Restoring transit through the Strait of Hormuz is key** to stabilise global energy markets.
- In the meantime, countries can take **demand-side measures** to cut energy use quickly and ease the economic impact on consumers.

10 measures to reduce impacts on households and businesses

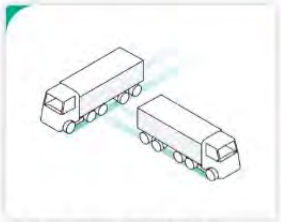
Road transport fuels
Air transport fuels
Cooking fuels
Oil use in industry



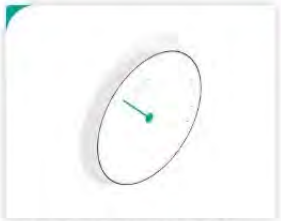
Alternate-day car access in big cities



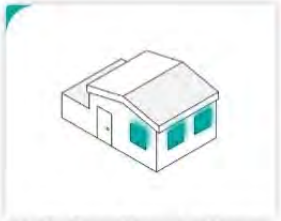
Increase car sharing



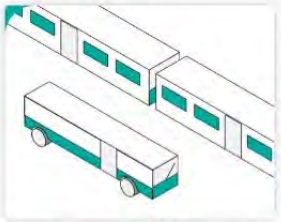
Drive commercial vehicles efficiently



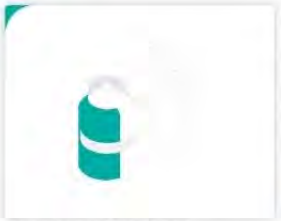
Lower highway speed limits



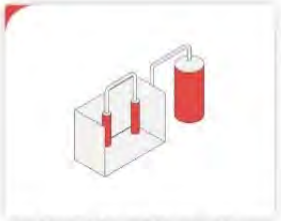
Work from home where possible



Encourage public transport use



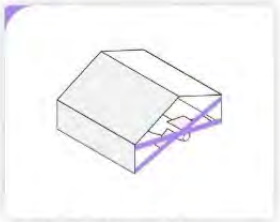
Free up LPG from transport for cooking



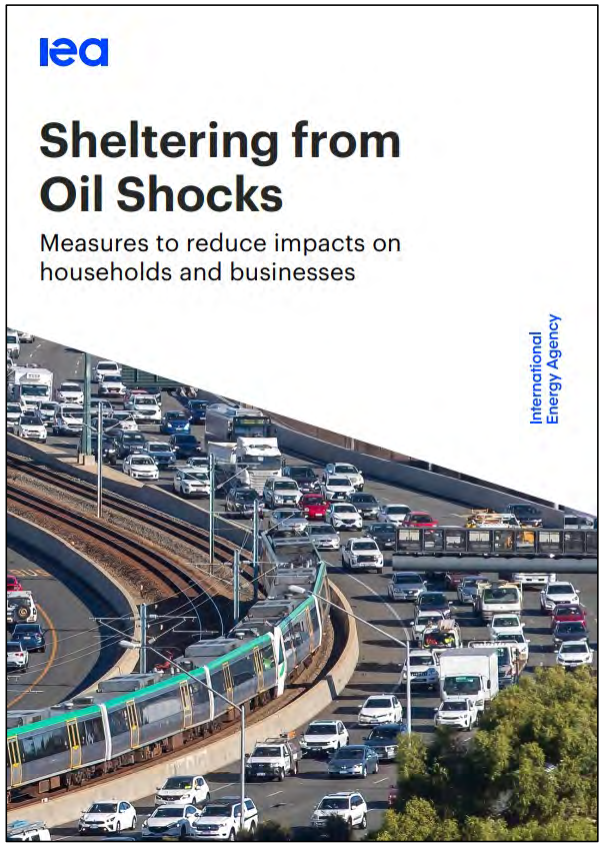
Be flexible with petchem feedstocks



Switch to alternative modern cooking solutions



Avoid air travel if alternatives exist



Over 110 countries have taken policy action in response to the crisis

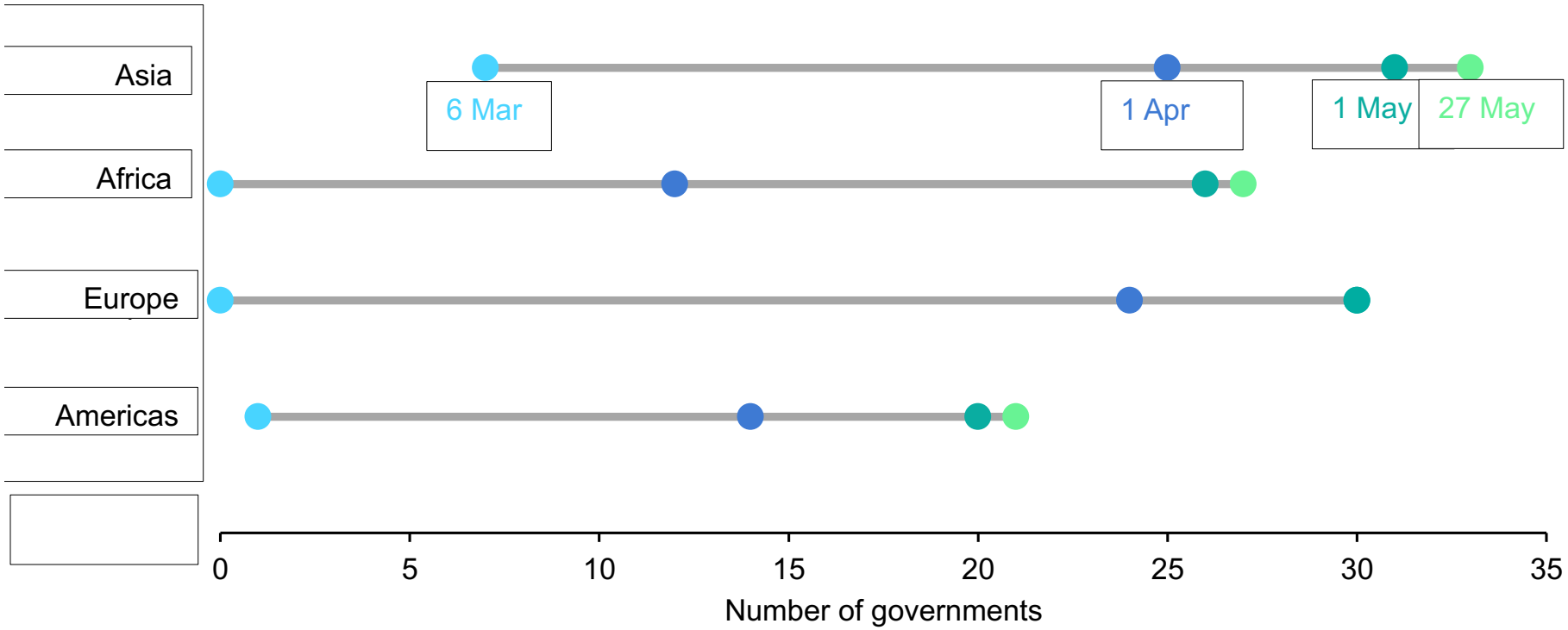
- Over 110 governments have also taken action regarding demand and consumer support
  - **54** taking **energy conservation measures** to save fuel
  - **90** introducing **price supports** to help households and businesses
  - **21** announcing **structural policies** to enhance long-term resilience

- The IEA is monitoring this in its online **Energy Crisis Policy Response Tracker**
  - This has become one of the IEA's most-used data explorers, with over 60K users and counting



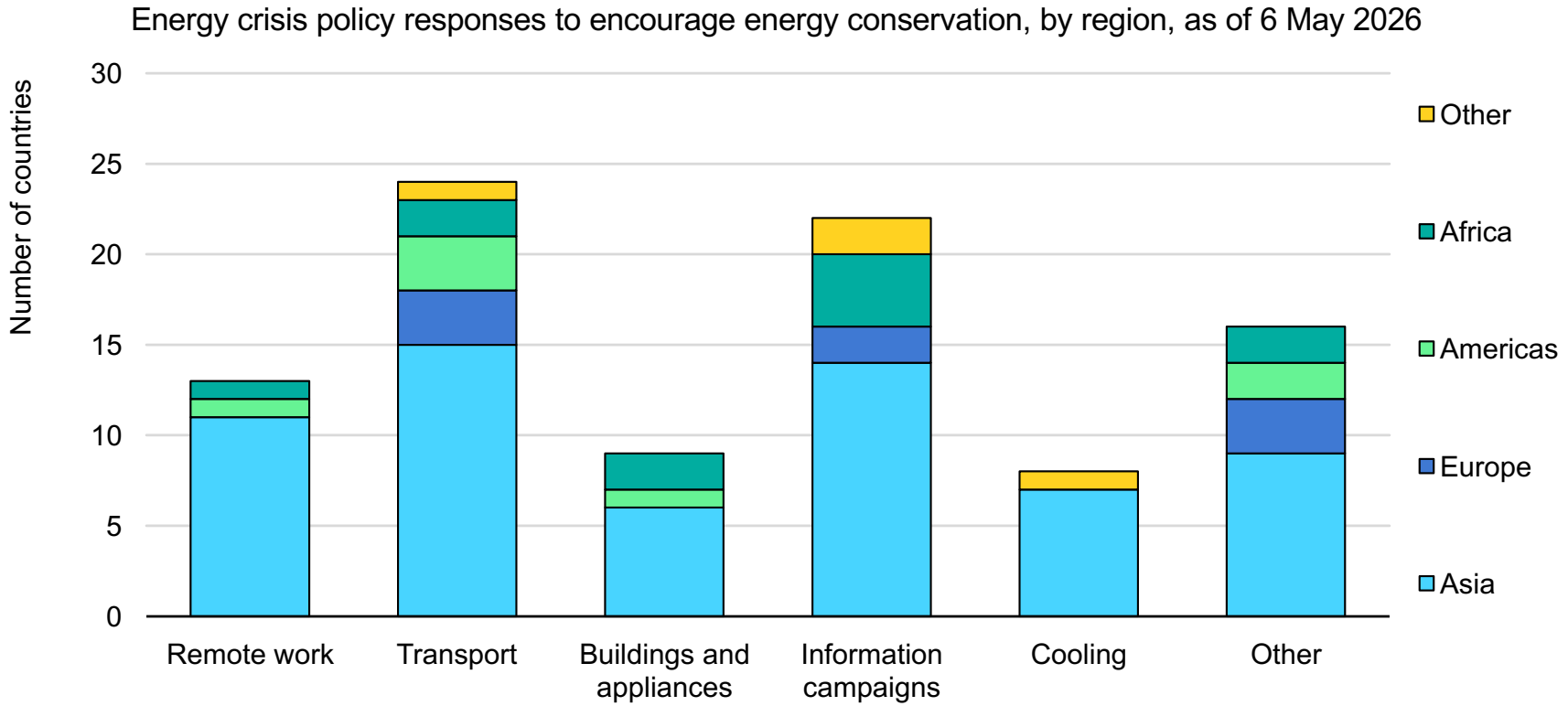
Europe has implemented a high number of policies in recent months

Timeline of energy crisis policy response measures after the start of the conflict in the Middle East on 28 February 2026



Countries in Asia are among the hardest hit and fastest to act. Since then, countries in Europe, Africa and in the Americas have implemented crisis response measures as well.

Energy conservation actions are primarily focused on limiting oil use



While governments have sought to limit unnecessary use of personal transportation, reduced government travel and encouraged public and private sector employees to work from home more, energy conservation measures in Europe remained modest.

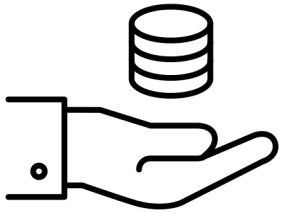
Most European emergency measures focus on consumer support



- Croatia, Poland, Hungary introducing **price caps for oil products** such as gasoline, diesel or kerosene

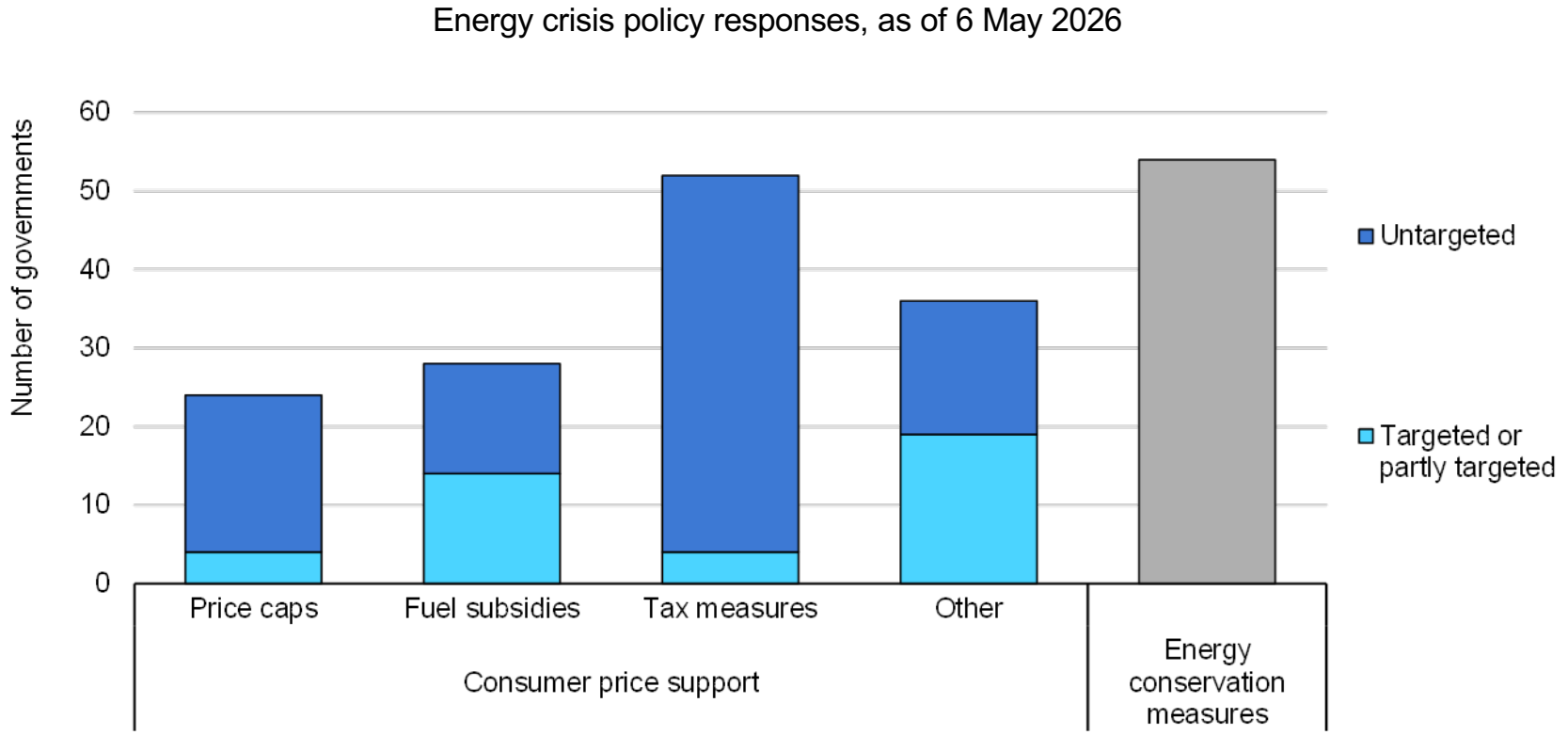


- Greece, Belgium, Netherlands providing **fuel subsidies** to vulnerable and low-income households



- Germany, Italy, Ireland **lowering government excise tax rates on various oil products**

Countries have introduced more than 80 consumer support policies



Around 70% of these measures have been untargeted, which can put pressure on fiscal budgets and risks allocating a large share of the benefits to richer households.

What about the long term?

Structural demand measures can support long-term resilience

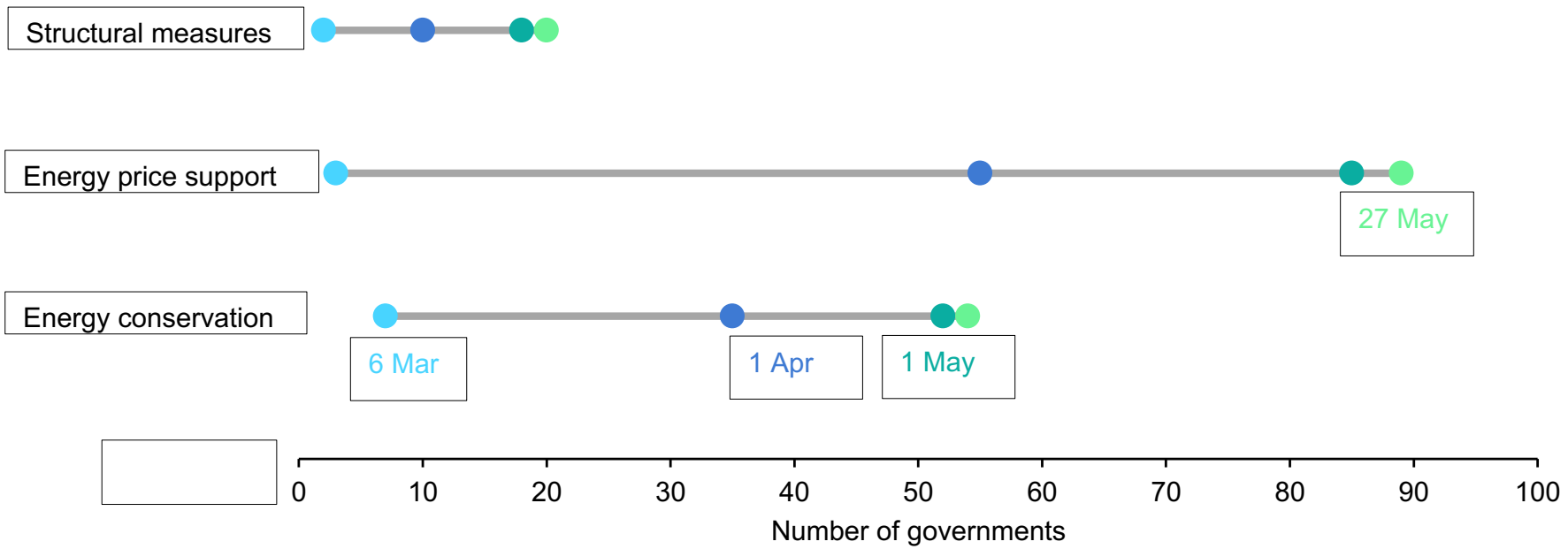
For longer-term security and affordability, structural measures are essential

Examples of structural levers to reduce oil demand:

- Electric vehicles and charging infrastructure
- Fuel economy standards
- Alternative modern cooking solutions
- Energy management systems
- Heat pumps to replace oil heating systems and industrial boilers
- Plastic waste collection, re-use and recycling
- Sustainable fuels

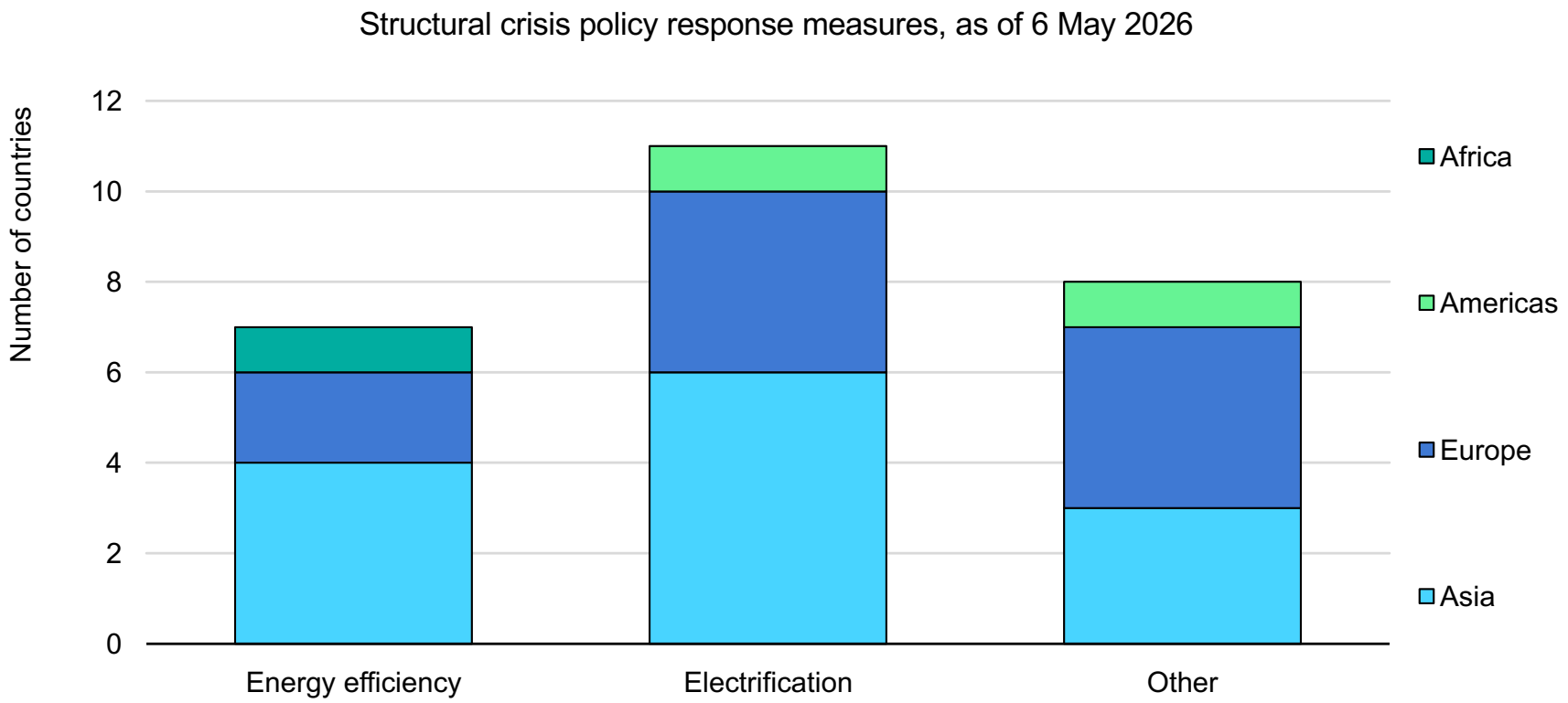
In recent weeks, more countries have introduced structural policies

Timeline of energy crisis policy response measures after the start of the conflict in the Middle East on 28 February 2026



Short-term actions to shield consumers and save fuel dominated early on, but over 20 governments have implemented more structural policies as well to enhance long-term resilience.

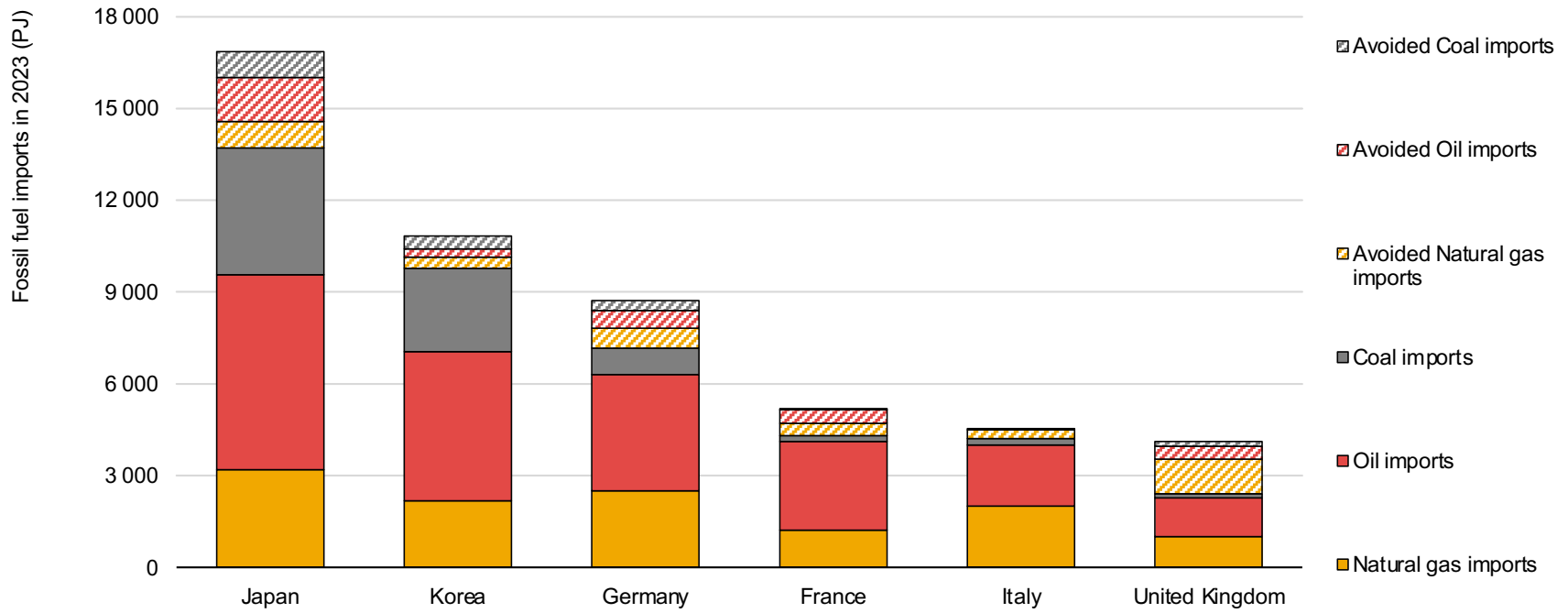
These include actions to enhance efficiency and electrification



This can enhance longer-term resilience through reduced reliance on imported fuels and lower energy bills.

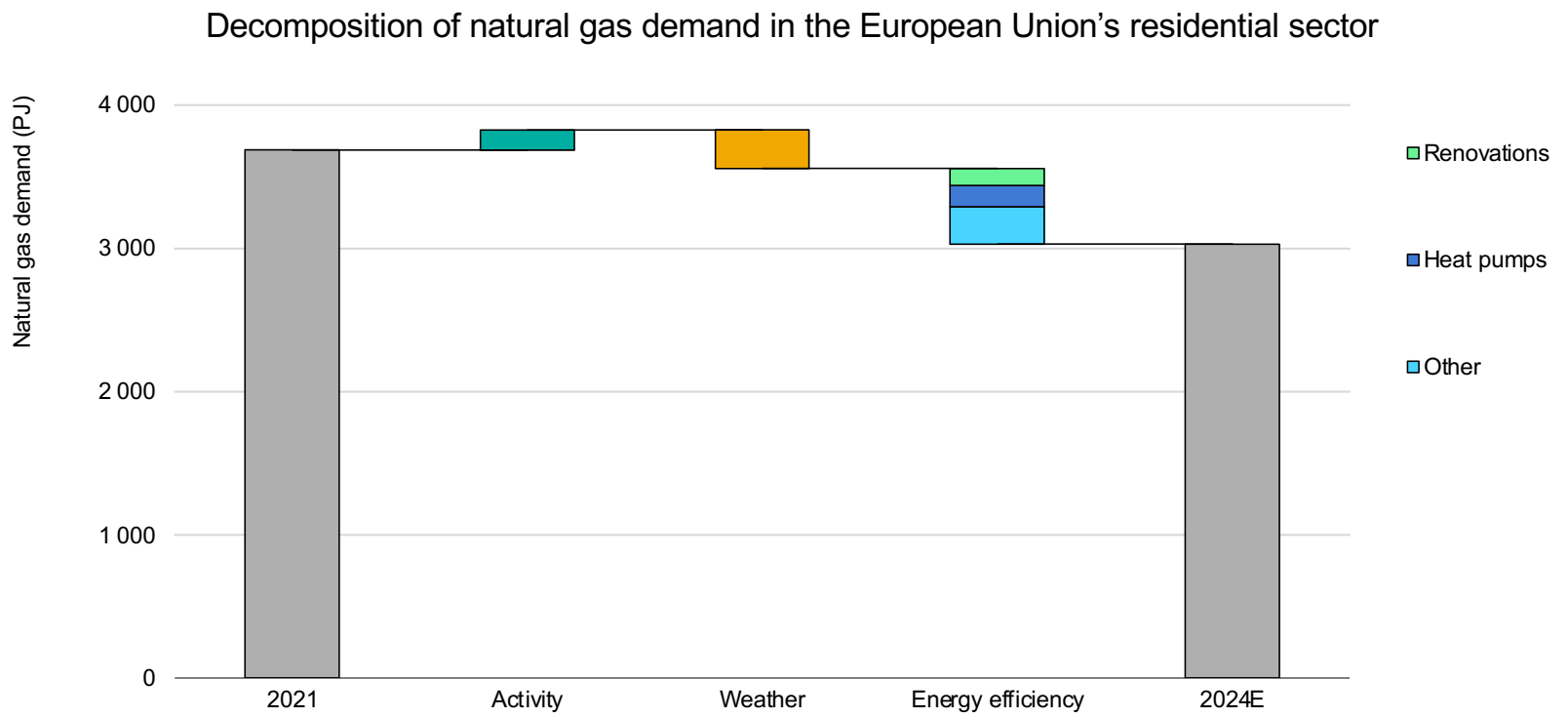
Energy efficiency can reduce fuel import needs

Annual imports and annual avoided imports due to energy-efficiency progress in selected IEA countries, since 2000



Since 2000, fossil fuel imports would have been 20% higher without energy efficiency improvements among energy-importing countries.

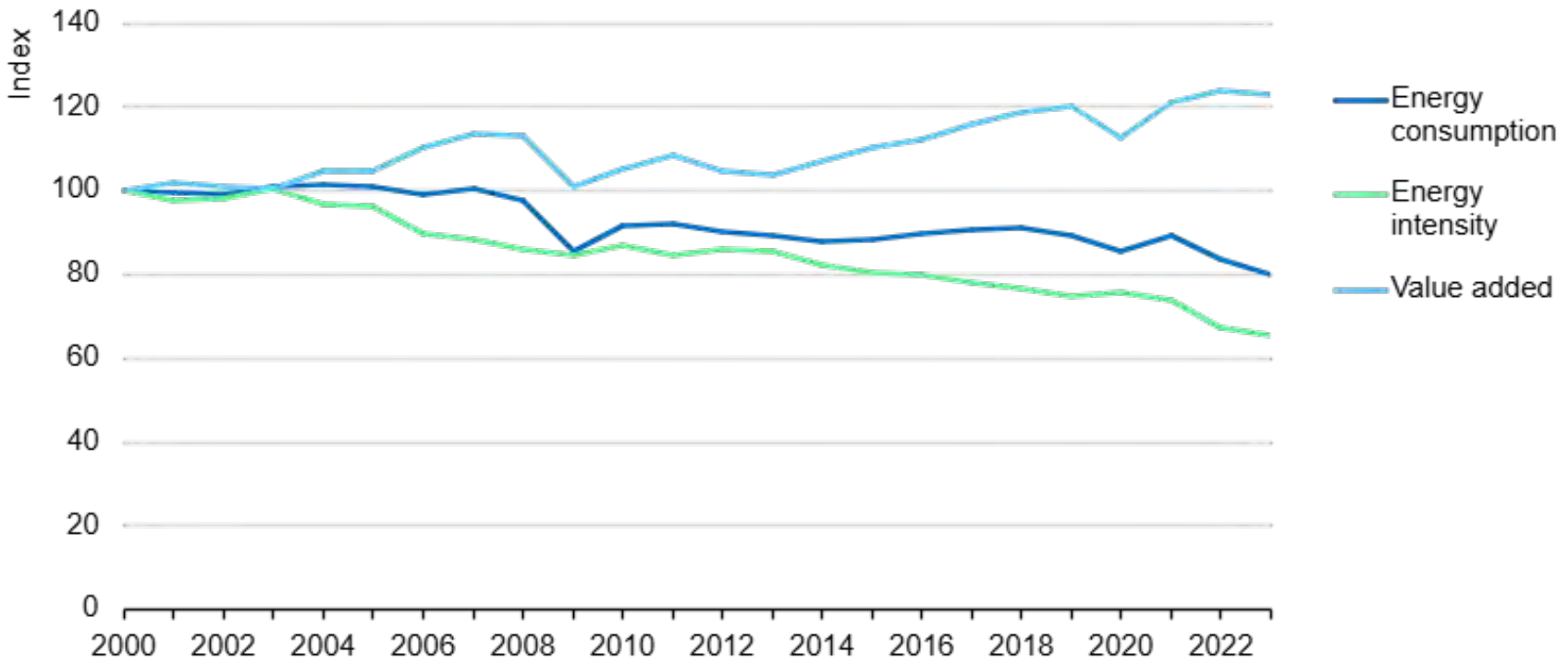
Efficiency reduces gas imports and strengthens crisis resilience



As a result of combined actions, and users' reaction to rising prices, annual natural gas demand in the European Union fell by around 13% in 2024. This allowed European countries to avoid major supply disruptions.

Energy efficiency boost industrial competitiveness

EU industry sector energy intensity changes, 2000-2023



By 2023, industry has produced 50% more value with a given amount of energy than two decades ago.

Structural demand-side measures support long-term resilience

- **Energy price shocks** continue to expose the vulnerability of our energy systems.
- Governments can act quickly — but short-term measures are not enough.
- Lasting solutions require **structural change**.
- **Energy efficiency is the first fuel**: it cuts demand, strengthens resilience, and boosts competitiveness.




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ODYSSEE-MURE

ODYSSEE-MURE: Short-term answers to price shocks by energy efficiency and energy sufficiency

ODYSSEE-MURE plenary at the eceee 2026 summer study

The energy efficiency answer to energy price shocks and competitiveness challenges

Center Parcs, Lac d'Ailette, 2 June 2026

Barbara Schlomann and Mahsa Bagheri - Fraunhofer ISI, Karlsruhe, Germany

Co-funded by the European Union under project ID 101215674. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

The ODYSSEE-MURE project – Quick overview

- Ongoing since more than 30 years
- Long established network of partners from all 27 EU Member States and Switzerland and new network from 9 Energy Community Parties (EnC)
- 2 comprehensive databases on Energy Efficiency Indicators (ODYSSEE) and Energy Efficiency Policies (MURE), accompanied by several analytical Tools.
- All data and information available on the website: https://www.odyssee-mure.eu/



ABOUT ODYSSEE

Database on energy efficiency indicators and energy consumption by end-use and their underlying drivers in industry, transport and buildings.

Learn more



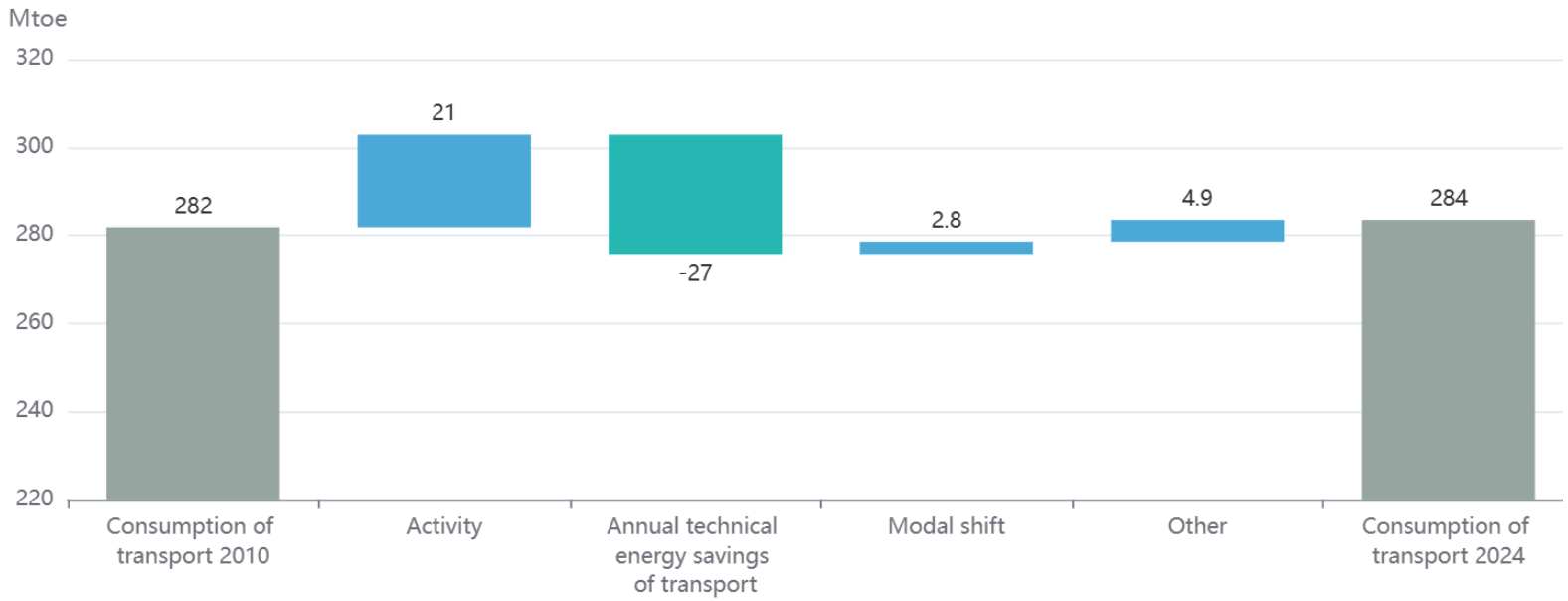
ABOUT MURE

Database on energy efficiency policies and measures by country in industry, transport and buildings.

Learn more

The ODYSSEE Decomposition Tool explains variations in energy consumption (total or by sector)

Variation in transport energy consumption – European Union 2010 - 2024

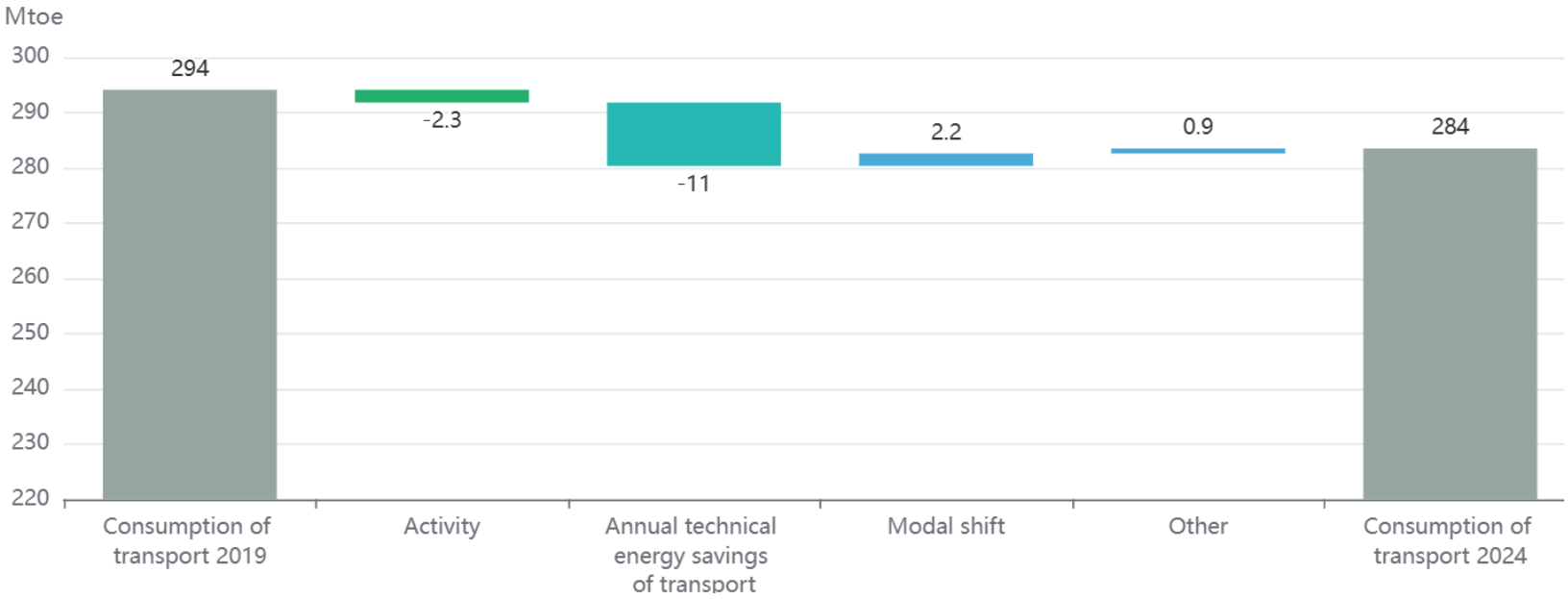


The decomposition of final energy consumption in transport shows that activity changes, i.e. passenger and freight traffic and other (capacity and behavioual) effects more than compensate the (technical) energy savings in the period 2010-2024.

Source: https://www.indicators.odyssee-mure.eu/decomposition.html

The ODYSSEE Decomposition Tool explains variations in energy consumption (total or by sector)

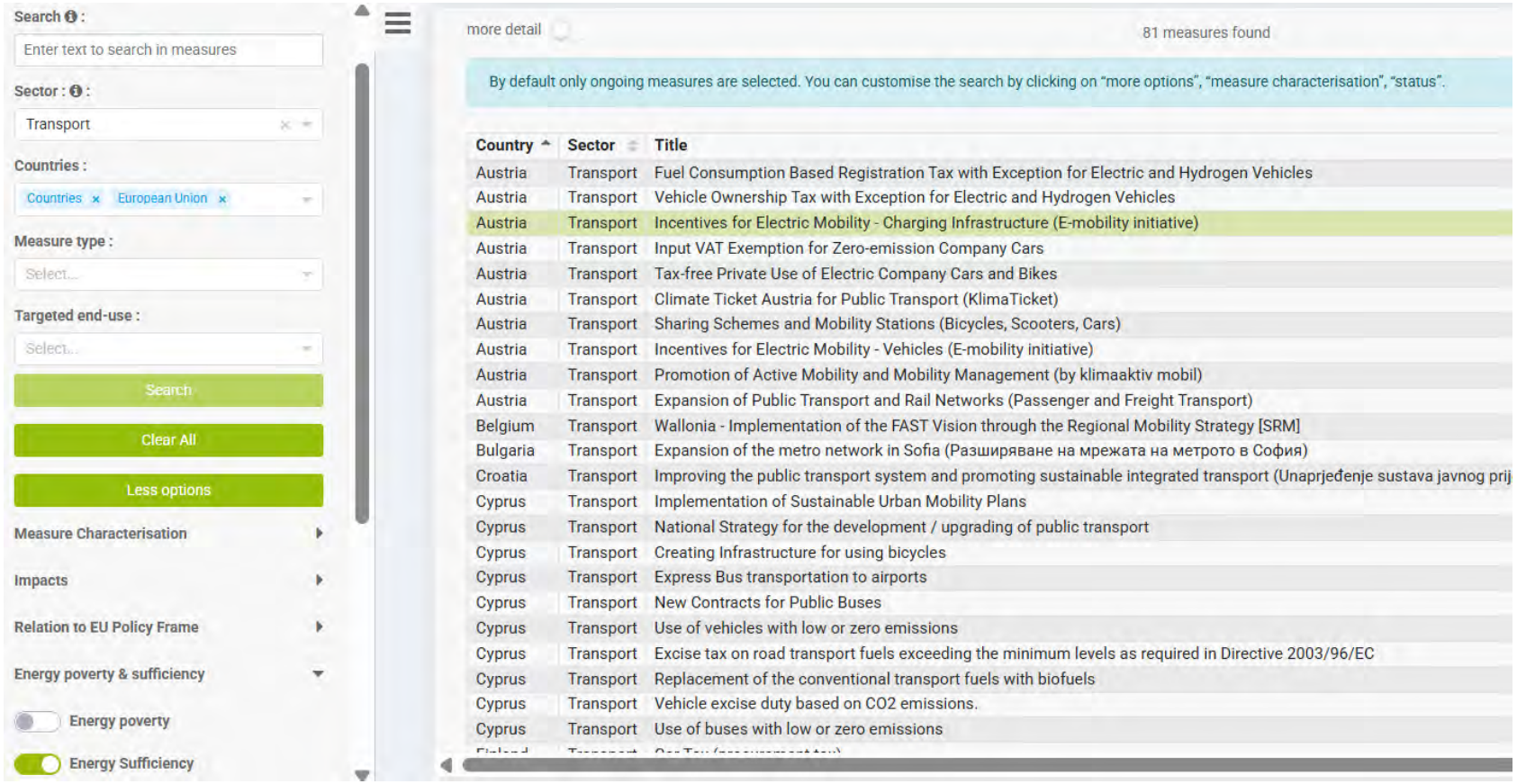
Variation in transport energy consumption – European Union 2019 - 2024



However, in the period 2019 – 2024, including two crisis, the reduction of transport activity reinforced the impact of technical energy savings → this both shows the importance and the potential of activity changes for the development of energy consumption and CO_2 emissions.

Source: https://www.indicators.odyssee-mure.eu/decomposition.html

The MURE database provides policy measures influencing (technical) **energy efficiency**, but also activities and behaviour (**energy sufficiency**)



Country	Sector	Title
Austria	Transport	Fuel Consumption Based Registration Tax with Exception for Electric and Hydrogen Vehicles
Austria	Transport	Vehicle Ownership Tax with Exception for Electric and Hydrogen Vehicles
Austria	Transport	Incentives for Electric Mobility - Charging Infrastructure (E-mobility initiative)
Austria	Transport	Input VAT Exemption for Zero-emission Company Cars
Austria	Transport	Tax-free Private Use of Electric Company Cars and Bikes
Austria	Transport	Climate Ticket Austria for Public Transport (KlimaTicket)
Austria	Transport	Sharing Schemes and Mobility Stations (Bicycles, Scooters, Cars)
Austria	Transport	Incentives for Electric Mobility - Vehicles (E-mobility initiative)
Austria	Transport	Promotion of Active Mobility and Mobility Management (by klimaaktiv mobil)
Austria	Transport	Expansion of Public Transport and Rail Networks (Passenger and Freight Transport)
Belgium	Transport	Wallonia - Implementation of the FAST Vision through the Regional Mobility Strategy [SRM]
Bulgaria	Transport	Expansion of the metro network in Sofia (Разширяване на мрежата на метрото в София)
Croatia	Transport	Improving the public transport system and promoting sustainable integrated transport (Unaprjeđenje sustava javnog prij
Cyprus	Transport	Implementation of Sustainable Urban Mobility Plans
Cyprus	Transport	National Strategy for the development / upgrading of public transport
Cyprus	Transport	Creating Infrastructure for using bicycles
Cyprus	Transport	Express Bus transportation to airports
Cyprus	Transport	New Contracts for Public Buses
Cyprus	Transport	Use of vehicles with low or zero emissions
Cyprus	Transport	Excise tax on road transport fuels exceeding the minimum levels as required in Directive 2003/96/EC
Cyprus	Transport	Replacement of the conventional transport fuels with biofuels
Cyprus	Transport	Vehicle excise duty based on CO2 emissions.
Cyprus	Transport	Use of buses with low or zero emissions

Source: https://www.measures.odyssee-mure.eu/energy-efficiency-policies-database.html#/search

Energy sufficiency measures in MURE

ODYSSEE-MURE

Definition of energy efficiency vs. energy sufficiency measures in MURE

Sufficiency vs. efficiency

Their nature of changing the quantity or quality of the energy services demanded is exactly what **distinguishes energy sufficiency actions from energy efficiency actions.**

Direct sufficiency measures directly lead to a reduction in energy service demand, e.g.

- **Household:** regulated use of space per person or household (m2, bedrooms per person…)
- **Services:** Office space per person is reduced (Heating, cooling, electricity, …)
- **Transport:** Fuel consumption per annum of car fleet is capped

Indirect sufficiency measures provide incentives for a reduction in energy service demand:

- Bonus-malus systems for cars or buildings addressing the size
- Fuel taxes, city tolls
- Progressive tariffs for electricity or gas, consumption-based billing
- Behaviour recommendations or campaigns for energy sufficiency

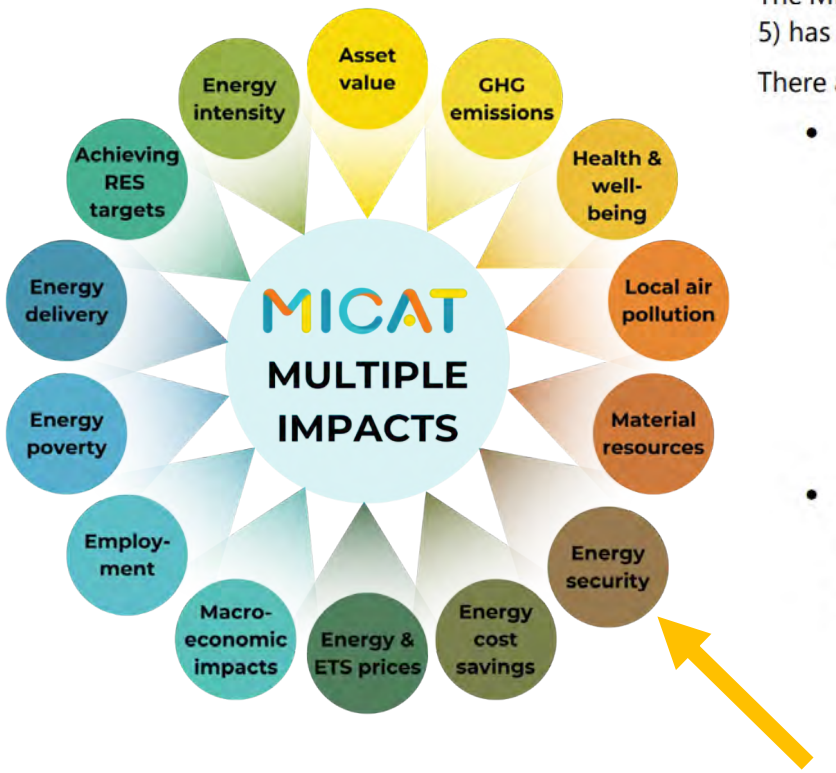
Number of energy sufficiency measures in MURE (all categories)	
Cross-cutting:	37
Households:	30
Industry:	13
Services:	49
Transport:	37

Examples of energy efficiency / sufficiency measures for immediate action to tackle high energy prices (short-term measures)

- Communication campaigns for simple behavioural actions in private households
  - In mid 2022, several EU MS launched public campaigns on measures to reduce energy demand by simple behavioural and small technical changes (e.g. Finland, Luxembourg, Czechia, Germany, France)
- Campaigns to chase idle consumption and energy waste in companies and public buildings
  - Voluntary and mandatory measures to reduce lighting in commercial buildings and shopping centres
- Temporary targets or bonus for short-term effective energy saving measures
  - Voluntary or mandatory measures to reduce lighting in commercial buildings and shopping centres (e.g. in Germany after the energy price crisis in 2022)
  - Bonus to promote low-cost actions (e.g., LEDs, thermostatic valves, water-saving showerheads) in existing programs (e.g. temporarily implemented in the French White Certificate scheme)
- Promoting maintenance or replacement of heating systems
  - E.g. the German scheme for energy labelling of existing boilers

Source: Own collection based on MURE database

The role of energy efficiency to improve the security and resilience of the energy system – The Multiple Benefits Tool



The MICATool is available at the website https://app.micatool.eu/. Its entrance webpage (see Figure 5) has been modified to adapt specifically to the ODYSSEE-MURE project.

There are two configurations:

- The MICATool builds first on the **top-down savings** which are calculated in the ODYSSEE-MURE project (ODYSSEE part) based on statistical data. For recall: these savings include generally not only policy induced savings but also energy savings arising from autonomous progress or market-induced changes in energy demand.

- The MICATool builds second on the **bottom-up savings** which are calculated in the ODYSSEE-MURE project (MURE part) based on energy efficiency measure evaluations. For recall: these savings focus on policy induced savings (though there can be overlapping effects, e.g. free-rider effects in policy programmes).

Conclusions

- **Short-term energy efficiency and energy sufficiency measures** can reduce the negative impact of high energy (and CO_2) prices and price shocks → the MURE database provides many best practices from previous crisis and has a new focus on energy sufficiency measures.
- Energy efficiency improves the security and resilience of energy systems → the **Multiple Benefits Tool** in ODYSSEE-MURE and MICAT quantify and partly monetizes these impacts.
- Furthermore, the ODYSSEE-MURE project provides comprehensive data and analytical tools to flexibly analyze current issues in the broader field of energy efficiency, also quantitatively. This both includes **short-term aspects** as in the current crisis and well as **medium- and long-term aspects** with regard to the achievement of 2030, 2040 and 2050 energy and climate targets.

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ODYSSEE-MURE

Strategic answers of energy efficiency to energy prices and competitiveness challenges. Insights from ODYSSEE-MURE

eceee Summer Study 1-6 June 2026

Lac d'Ailette, France, 02 June 2026, Plenary Session ODYSSEE-MURE

Wolfgang Eichhammer
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Institute for European Energy and Climate Policies IEECP
Utrecht University (Copernicus Institute for Sustainable Development)

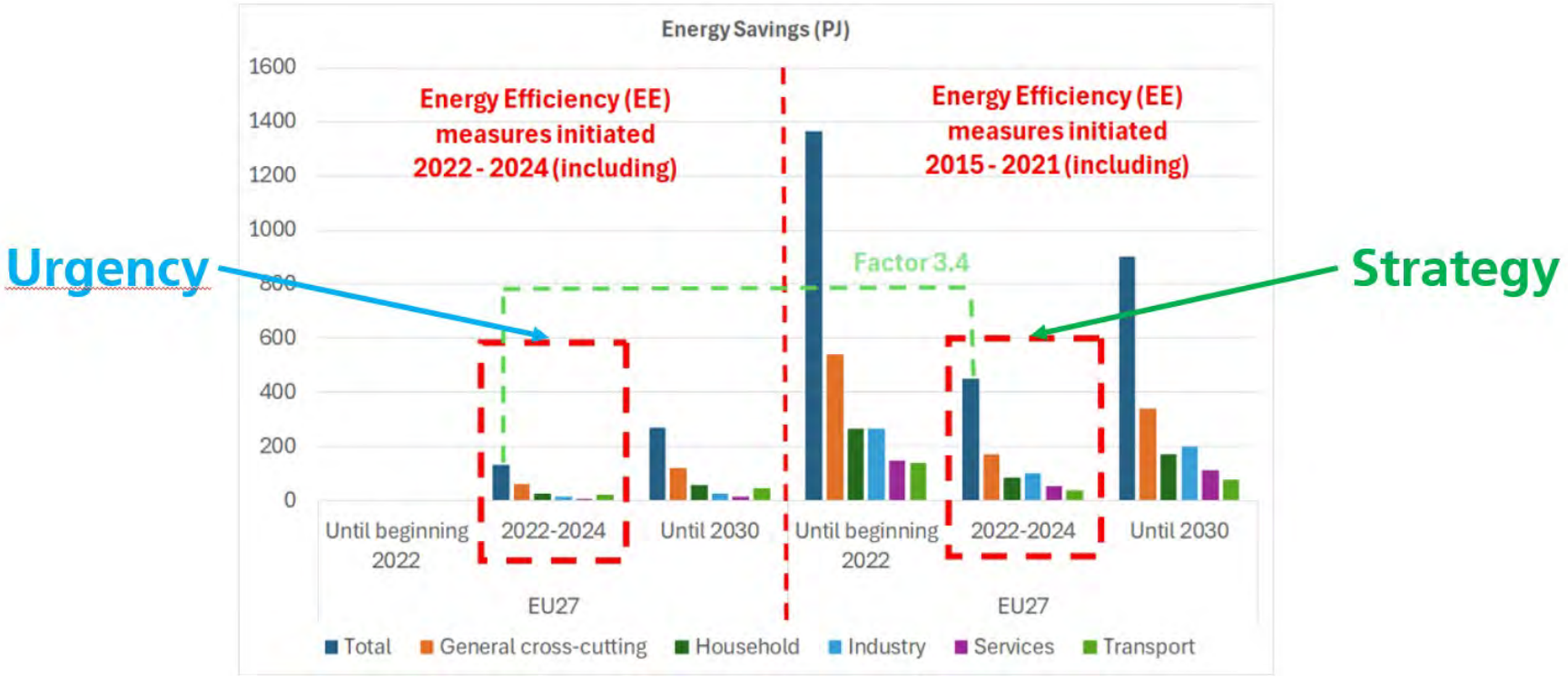
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Competitiveness: Strategic versus Urgency Energy Efficiency Measures

1. Chapter 1 - Natural Gas Prices EU / USA / Japan :
   Why European gas prices will never be competitive again
2. Chapter 2 - Natural Gas Prices EU / USA :
   Dynamic competitiveness loss
3. Chapter 3 - The cost of non-strategic approaches
4. Chapter 4 – And if we had had a (fully) strategic approach…?

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Strategic versus Urgency Energy Efficiency Measures



Source: Own calculations based on data from the MURE Database (https://www.measures.odyssee-mure.eu/energy-efficiency-policies-database.html#/) MURE Policy Assessment Tool (https://www.measures.odyssee-mure.eu/assessments-tool.html).

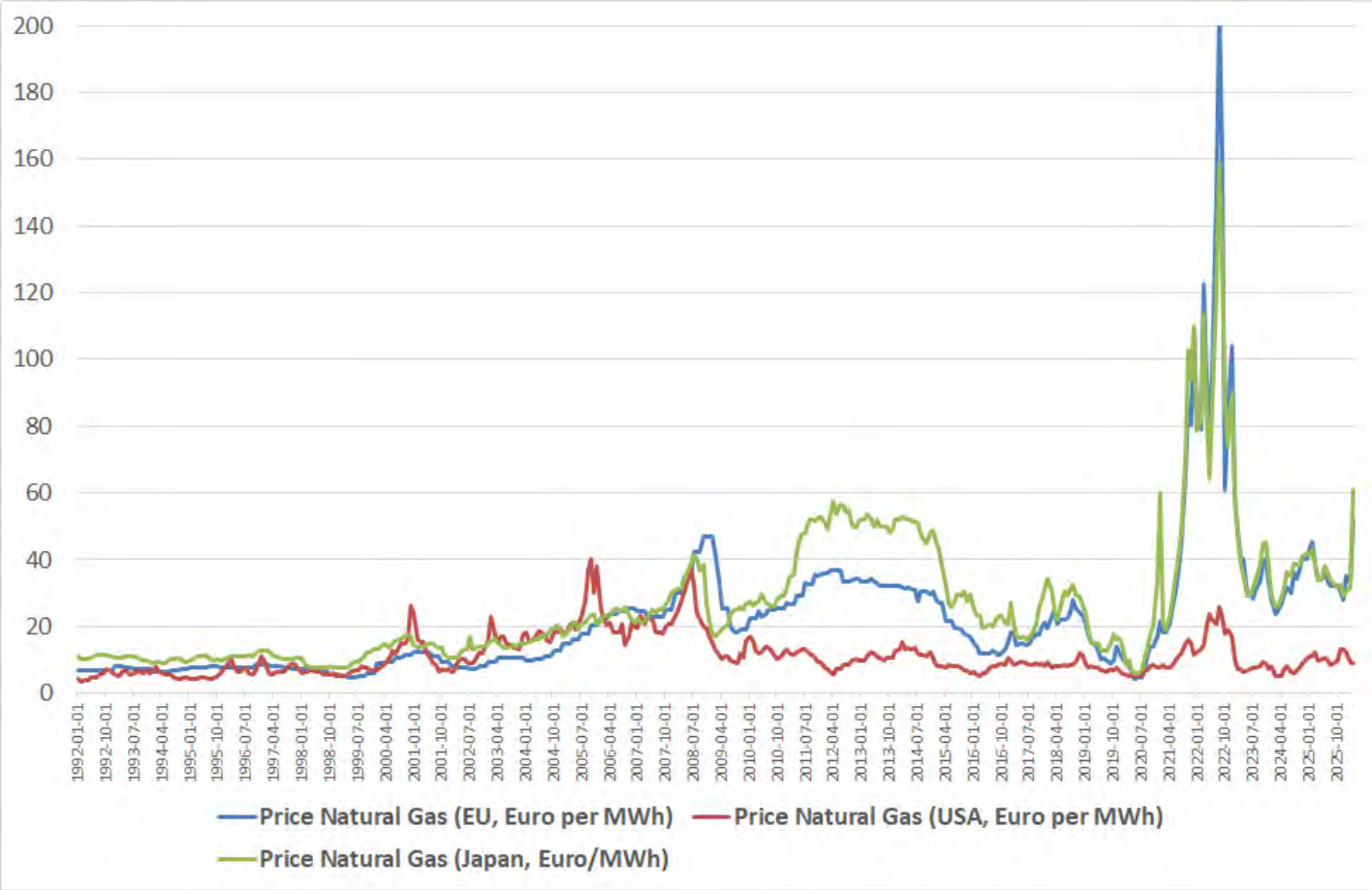
Competitiveness: Strategic versus Urgency Energy Efficiency Measures

1

Chapter 1 - Natural Gas Prices EU / USA / Japan : Why European gas prices will never be competitive again

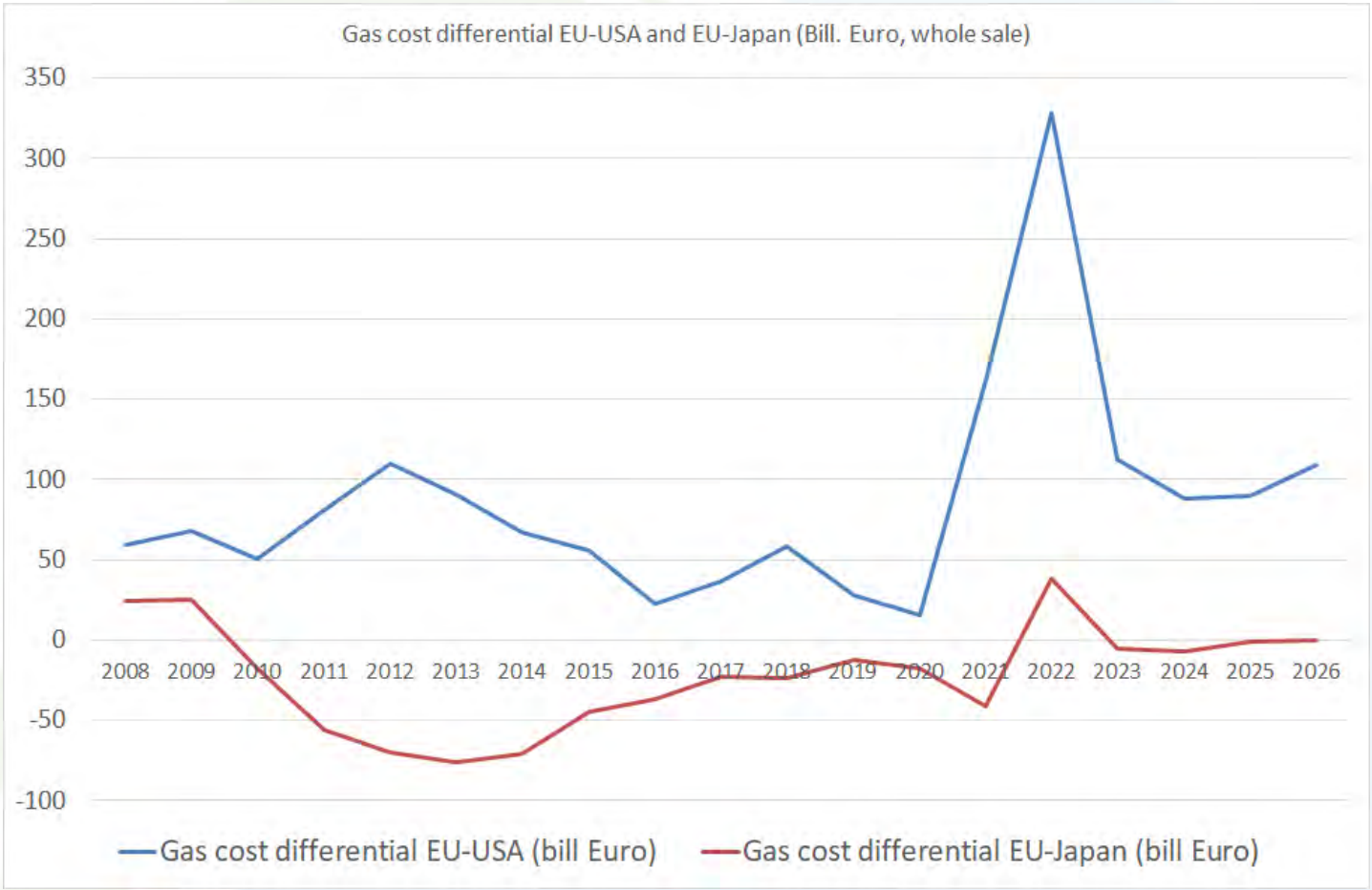
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Natural Gas Prices EU / USA / Japan (wholesale, Euro / MWh)



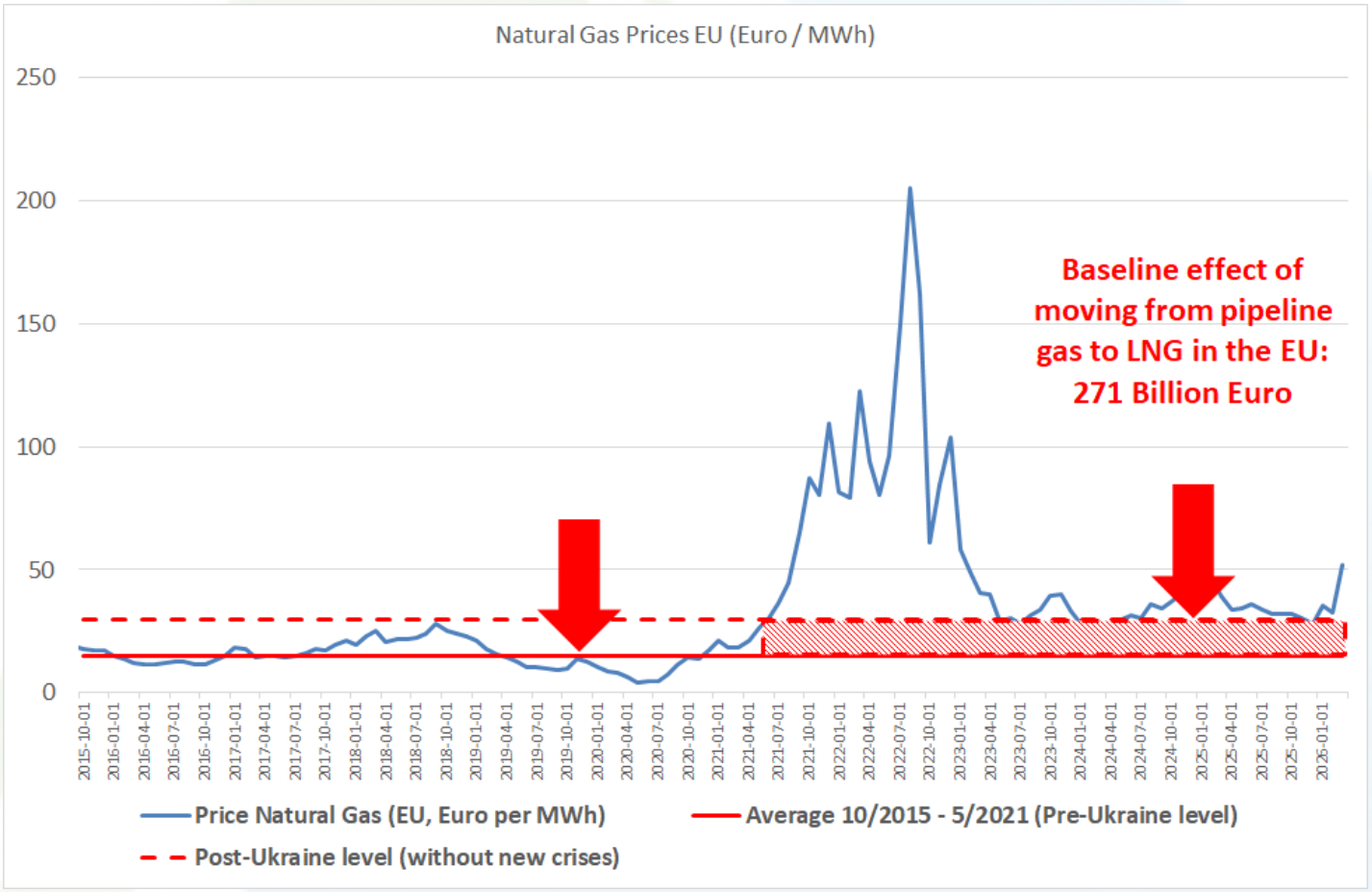
https://fred.stlouisfed.org/series/PNGASEUUSDM // https://fred.stlouisfed.org/series/PNGASUSUSDM // https://fred.stlouisfed.org/series/PNGASJPUSDM

Gas cost differential EU-USA and EU-Japan (Bill. Euro)



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Natural Gas Prices EU (wholesale, Euro / MWh)



https://fred.stlouisfed.org/series/PNGASEUUSDM // own presentation

Competitiveness: Strategic versus Urgency Energy Efficiency Measures

2

Chapter 2 - Natural Gas Prices EU / USA : Dynamic competitiveness loss

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Competitiveness EU versus USA during Ukraine war price hikes

→ *Europe*



→ *US¶*



https://tradingeconomics.com/commodity/eu-natural-gas // https://tradingeconomics.com/commodity/natural-gas

Competitiveness EU versus USA during price hikes in three following crises (attack of Israel, fear of gas shortage, Iran war)

→ *Europe*

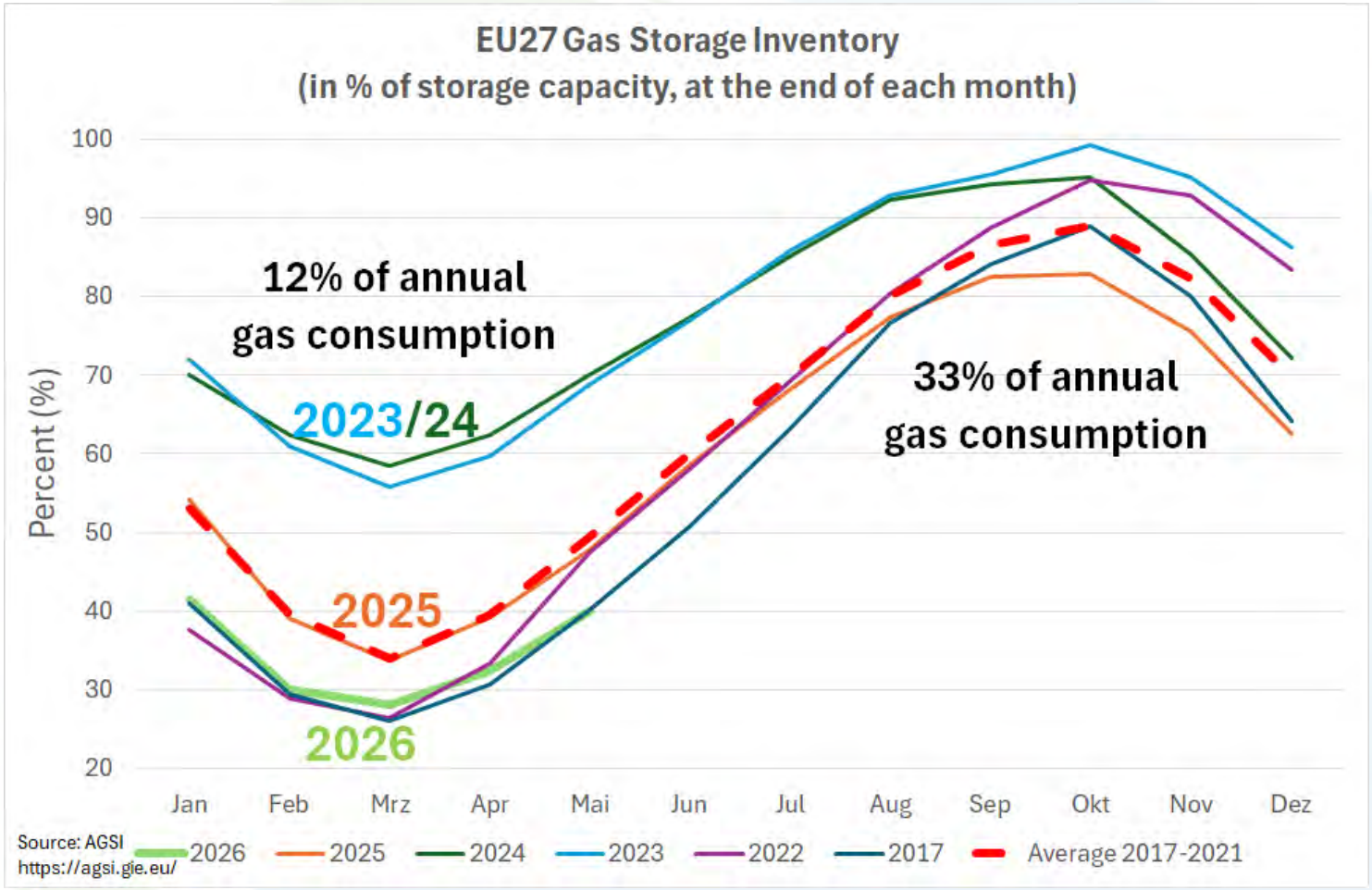


→ *US*



https://tradingeconomics.com/commodity/eu-natural-gas // https://tradingeconomics.com/commodity/natural-gas

Price hike : fear of gas shortage



https://agsi.gie.eu/

Competitiveness EU versus USA during price hikes in Iran war

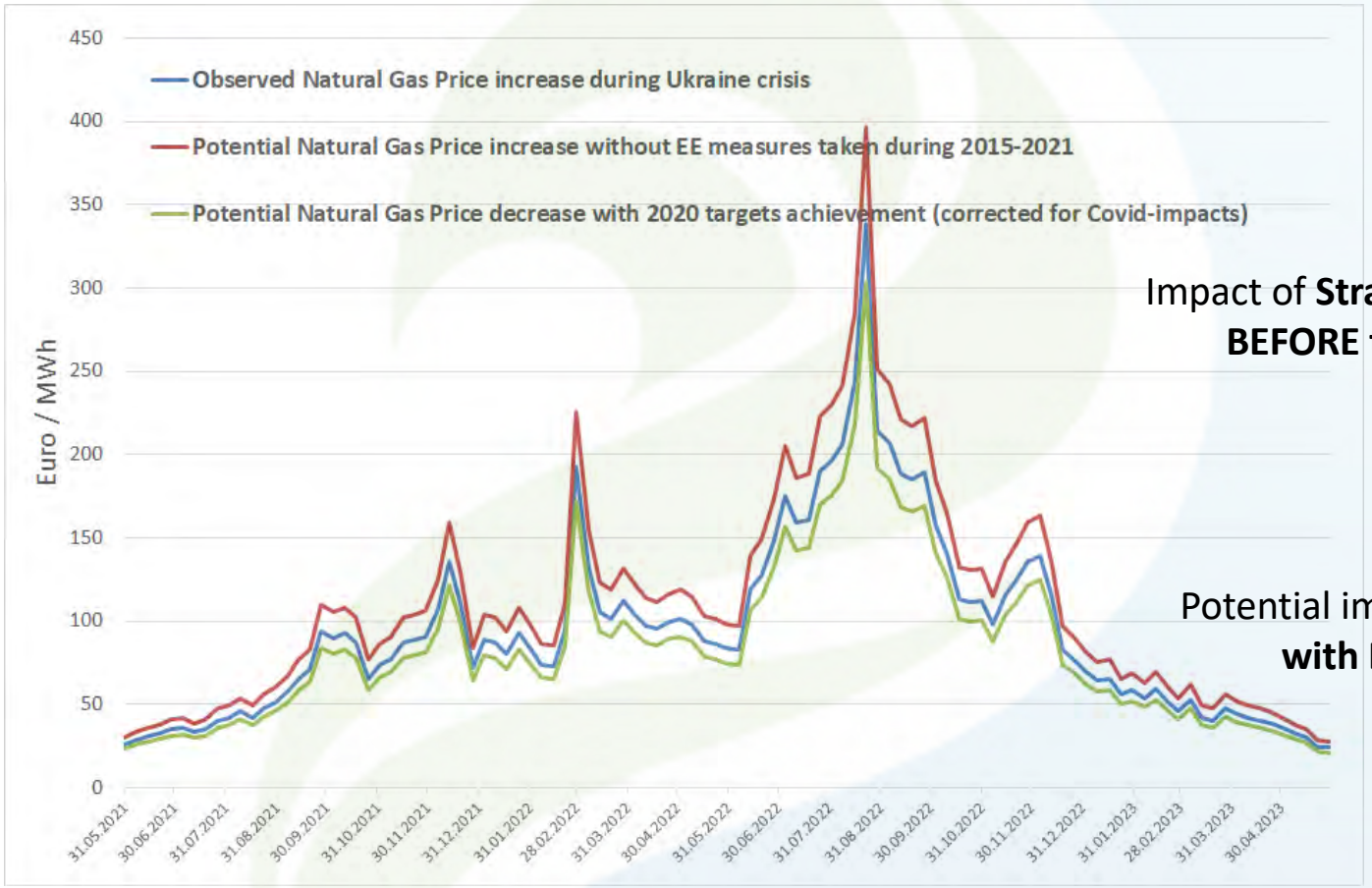
→ *Europe* → *US¶*





https://tradingeconomics.com/commodity/eu-natural-gas // https://tradingeconomics.com/commodity/natural-gas

(Potential) impacts of Energy Efficiency Measures on natural gas prices



Bill Euro	Bill Euro/day
595,6	0,818

Impact of **Strategic Energy Efficiency Measures BEFORE the Ukraine war (2015-2021)**

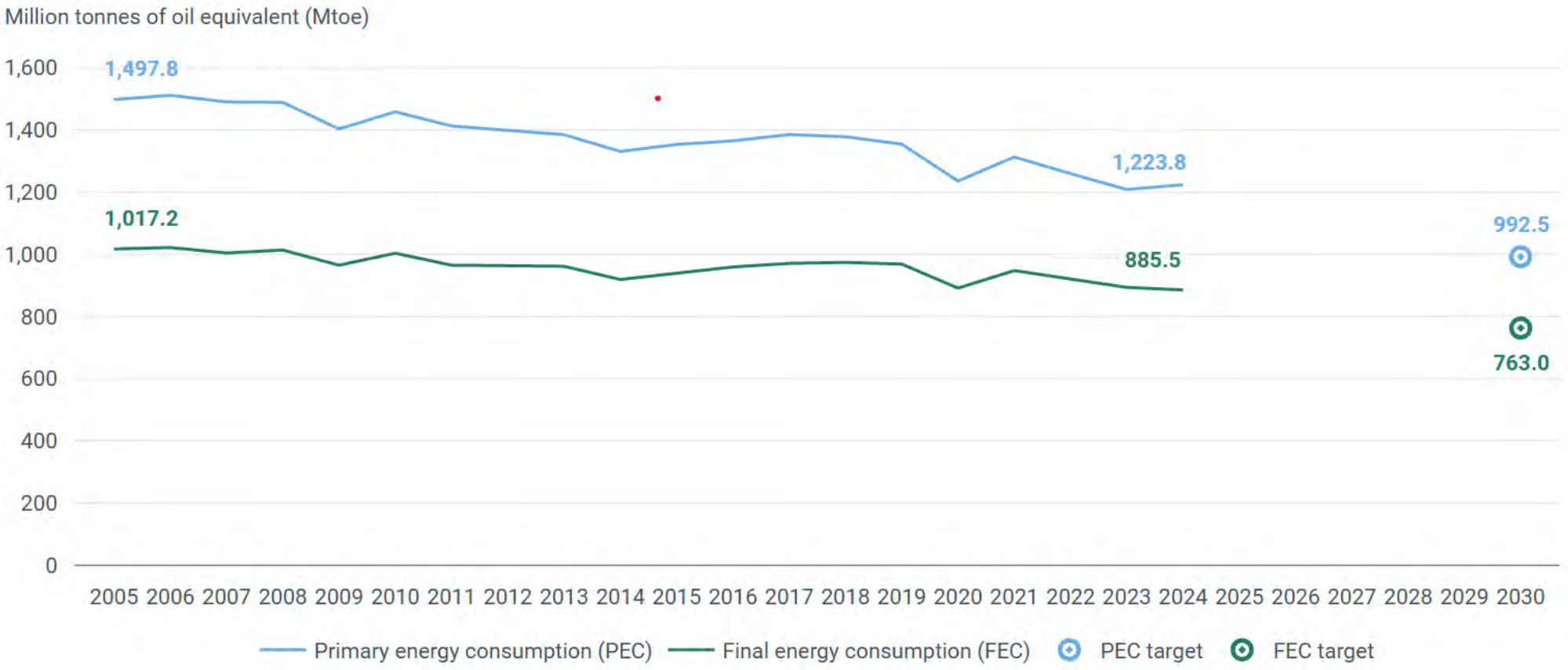
Bill Euro	Bill Euro/day
475,8	0,654

Potential impact of **2020 target achievement with Energy Efficiency Measures**

Bill Euro	Bill Euro/day
401,7	0,552

Xavier Labandeira, José M. Labeaga, Xiral López-Otero: A meta-analysis on the price elasticity of energy demand.
https://fred.stlouisfed.org/series/PNGASEUUSDM // own presentation based on ODYSSEE-MURE (strategic EE measures) // own calculation

The 2020 energy efficiency (final/primary energy) targets and the Covid-dip



https://www.eea.europa.eu/en/analysis/indicators/primary-and-final-energy-consumption/primary-and-final-energy

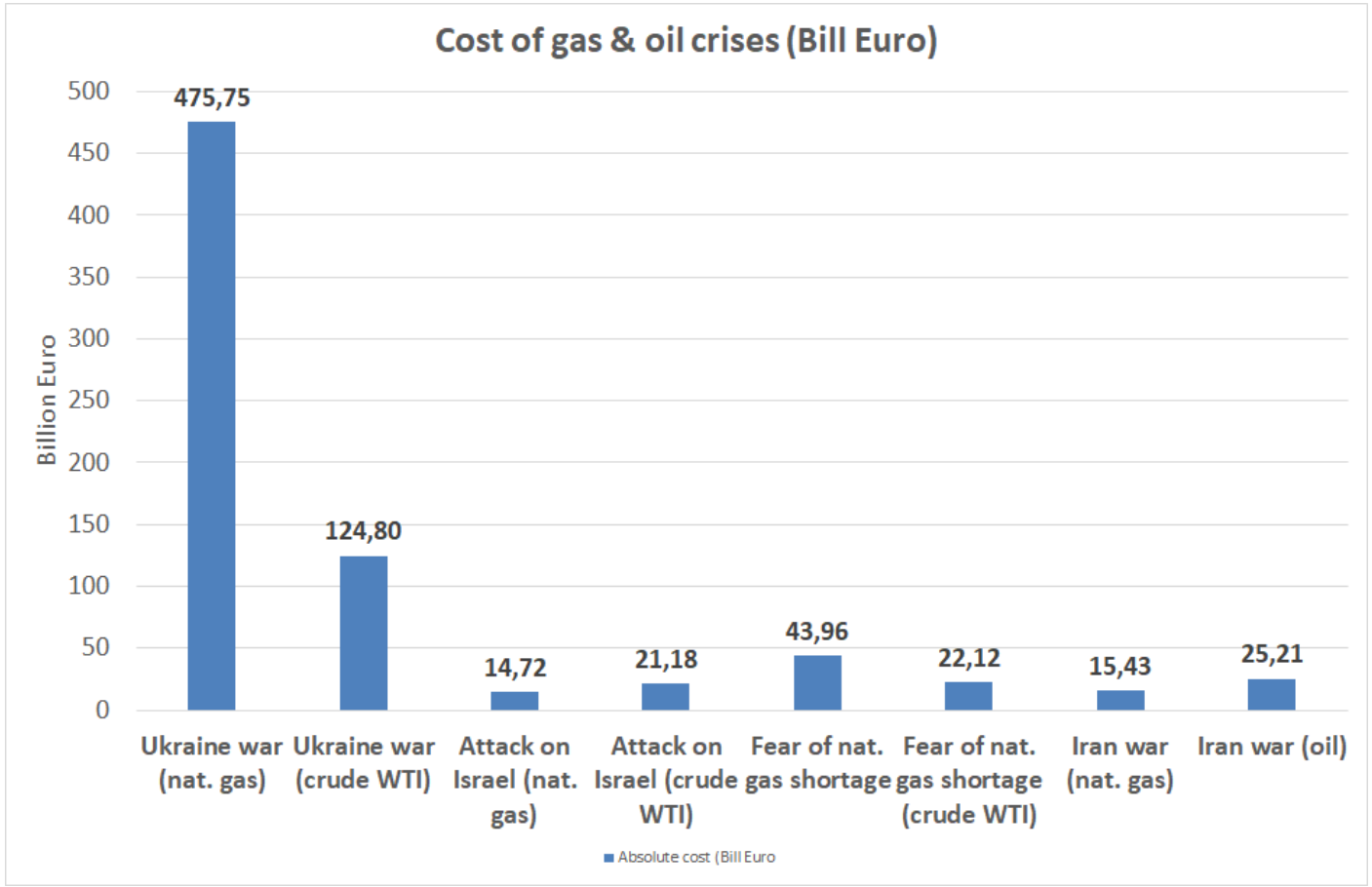
Competitiveness: Strategic versus Urgency Energy Efficiency Measures

3

Chapter 3 - The cost of non-strategic approaches

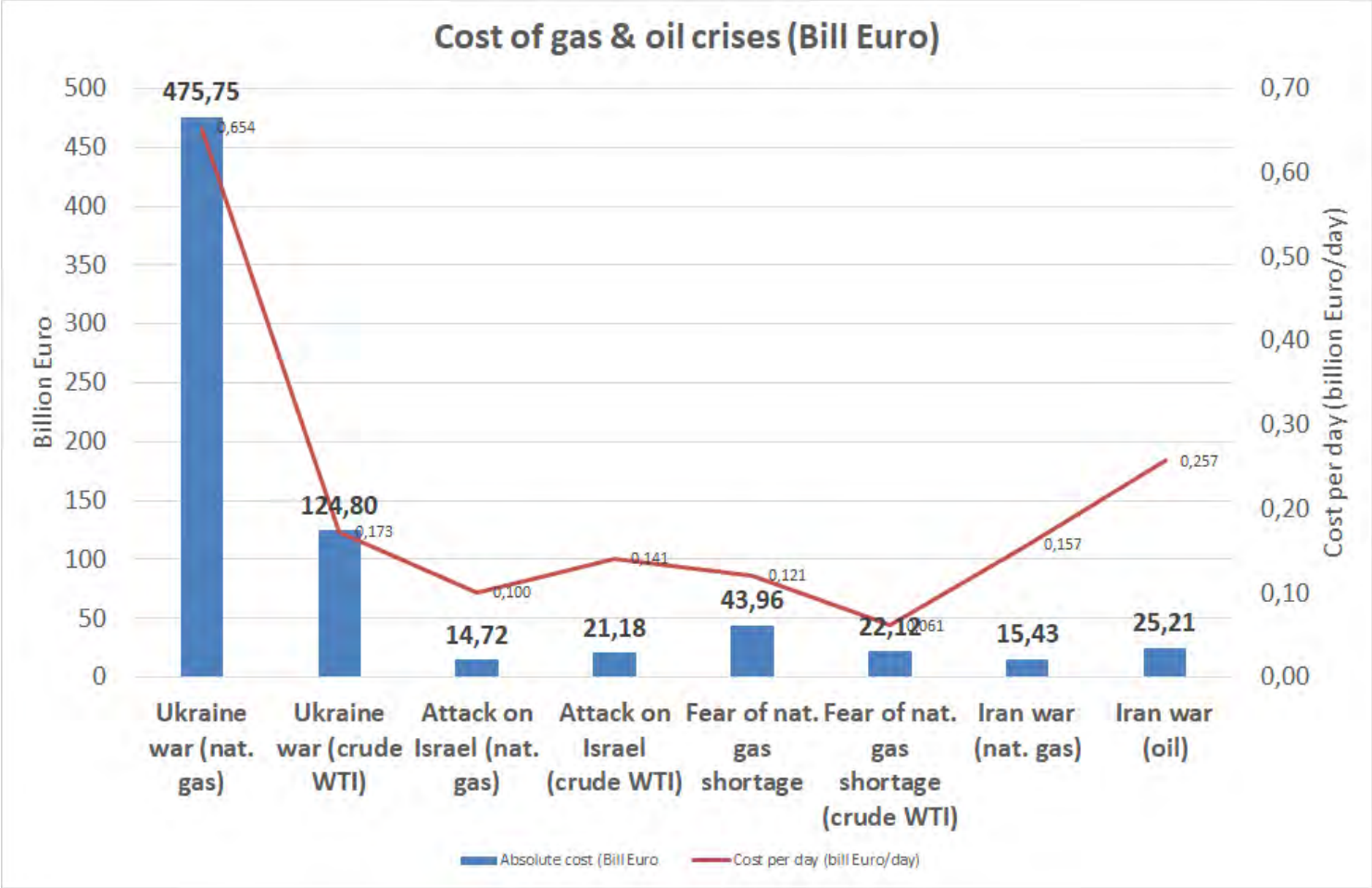
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Cost of gas & oil crises (Bill. Euro)



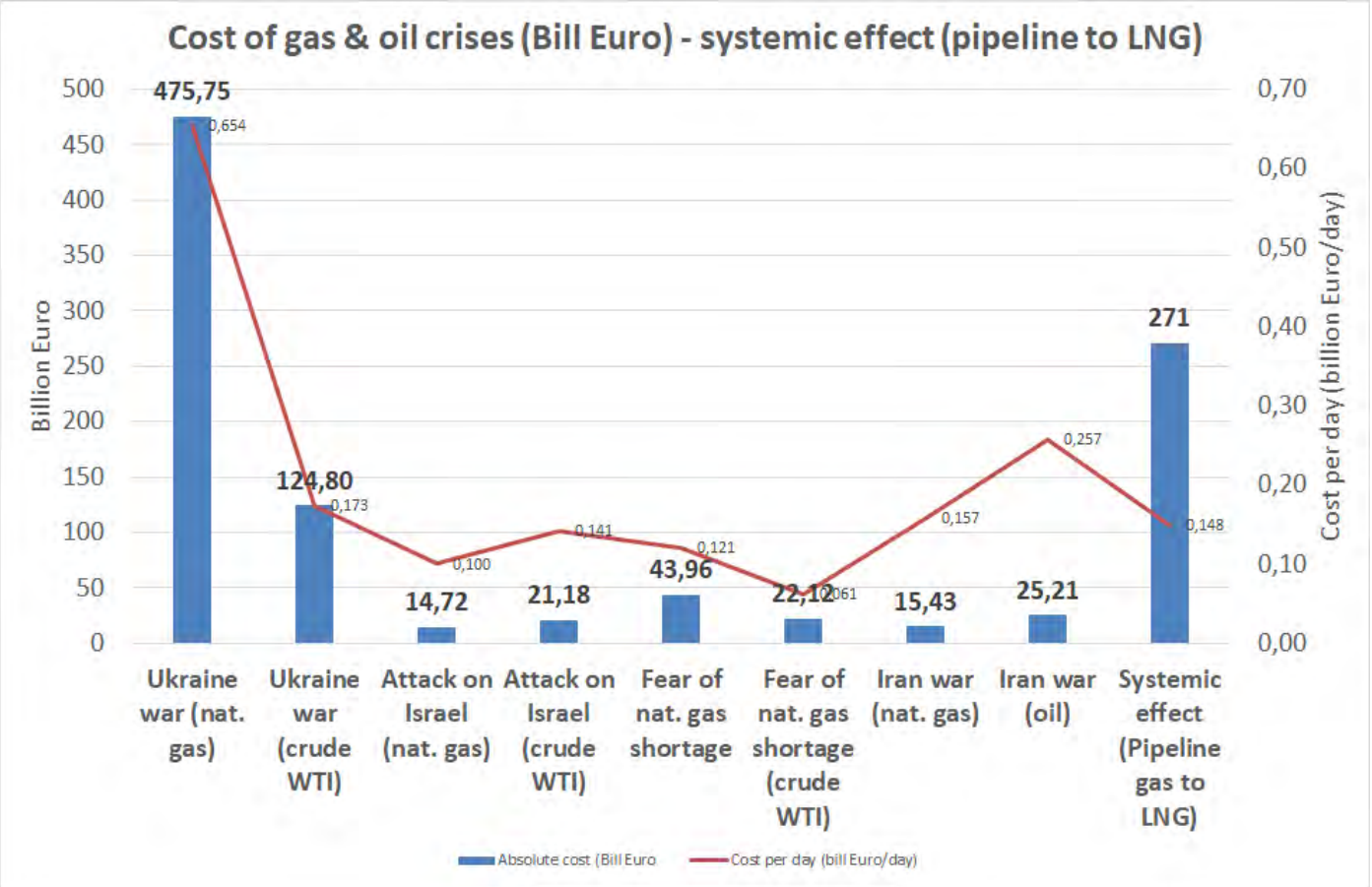
own calculation

Cost of gas & oil crises (Bill. Euro) – Daily cost



own calculation

Cost of gas & oil crises (Bill. Euro) – and system effect (pipeline baseline to LNG baseline)



own calculation

Competitiveness: Strategic versus Urgency Energy Efficiency Measures

4

Chapter 4 – And if, we had had a (fully) strategic approach…?

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And if, one day, we had a strategic approach…?

- In total, the cost of the crises cost (natural gas and oil) plus the systemic baseline shift from pipeline gas to LNG was:

  Total gas crises: 549,86 + Total oil crises: 193,31+ System shift: 271,00 (Bill. Euro)

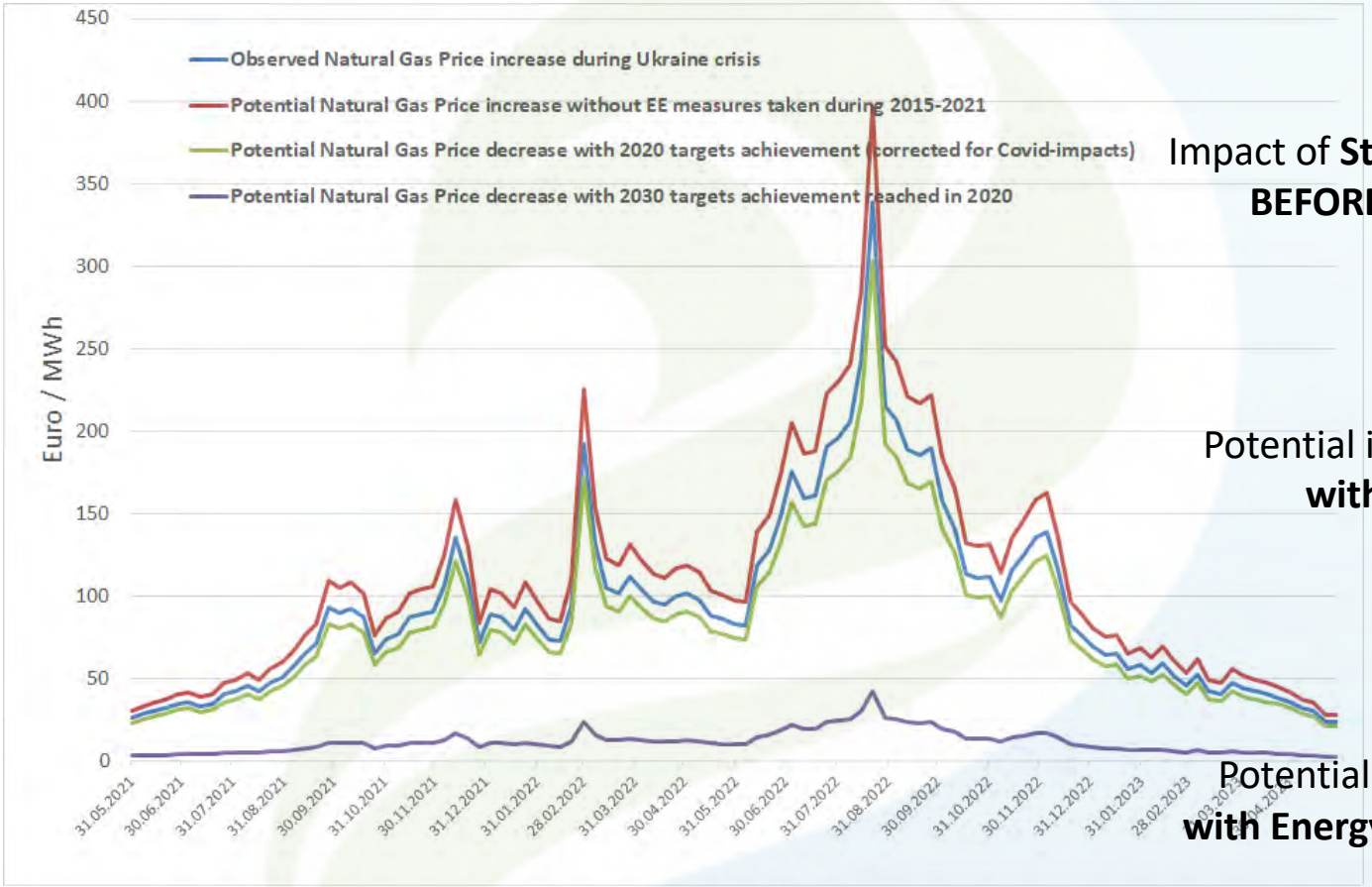
  = 1014 billion Euro (so far…)

- Estimated cost to reach EPBD requirements in 2030

  = 900 billion Euro

Own calculation
https://www.bruegel.org/policy-brief/how-finance-european-unions-building-decarbonisation-plan

(Potential) impacts of Energy Efficiency Measures on natural gas prices



Bill Euro	Bill Euro/day
595,6	0,818

Impact of **Strategic Energy Efficiency Measures BEFORE the Ukraine war (2015-2021)**

Bill Euro	Bill Euro/day
475,8	0,654

Potential impact of **2020 target achievement with Energy Efficiency Measures**

Bill Euro	Bill Euro/day
401,7	0,552

Potential impact of **2030 target achievement with Energy Efficiency Measures already in 202**

Bill Euro	Bill Euro/day
0,6	0,122

https://fred.stlouisfed.org/series/PNGASEUUSDM // own presentation based on ODYSSEE-MURE (strategic EE measures) // own calculation

Wolfgang Eichhammer
- wolfgang.eichhammer@isi.fraunhofer.de


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ENERGY EFFICIENCY WATCH
SEED MICAT
Support Energy Efficiency Deployment with the Multiple Impacts CAlculation Tool
співпраця з німеччиною
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Schweizerische Eidgenossenschaft
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Confederaziun svizra
Swiss Confederation
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Energy Price Shocks in the U.S. and the Role of Energy Efficiency to Address These Shocks

Steven Nadel, ACEEE

ECEEE Summer Study

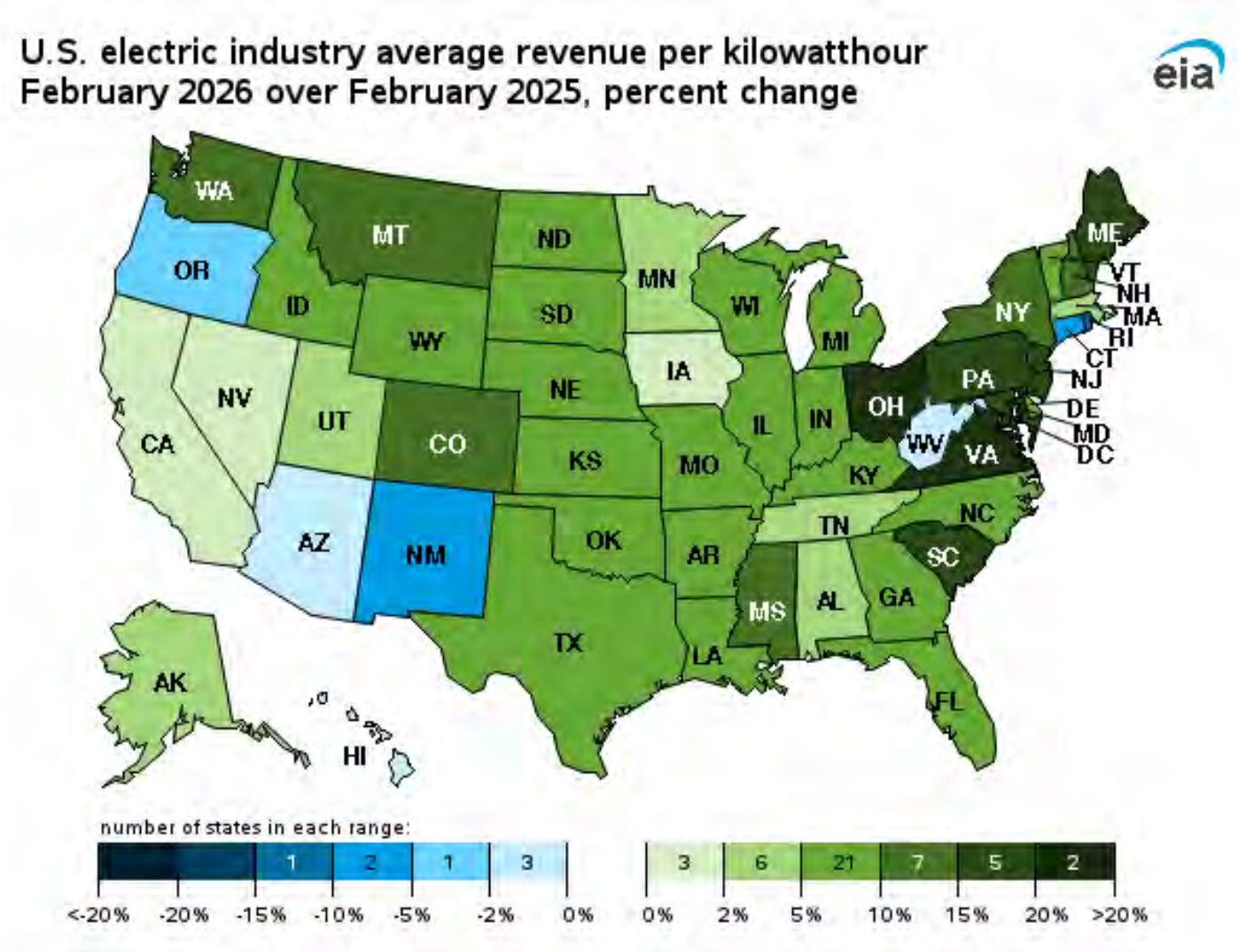
June 2026

ACEEE
Smart Energy. Clean Planet. Better Lives.



gettyimages
Credit: Bloomberg

U.S. electric industry average revenue per kilowatthour
February 2026 over February 2025, percent change

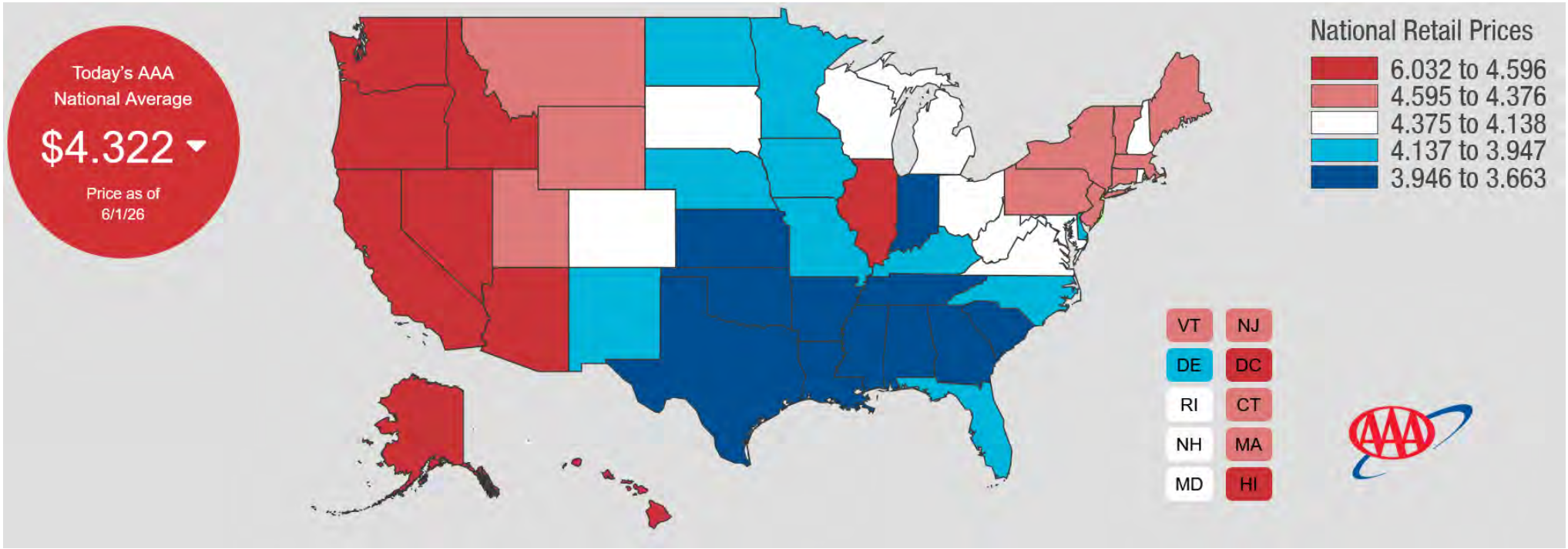


Biggest Causes of Electric Price Increases

- New large loads, primarily data centers
- Increased distribution investments
- Also many local factors





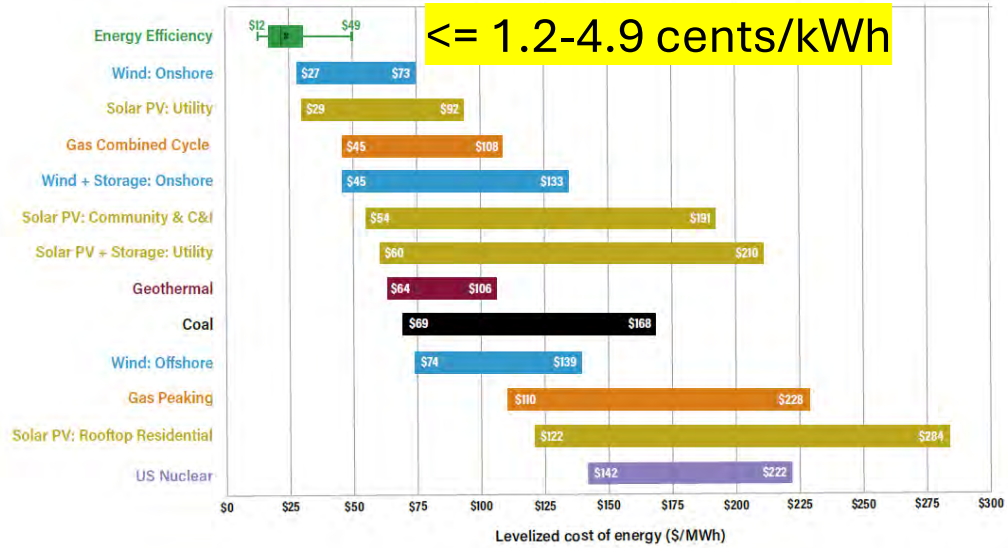


3.8 liters in a gallon

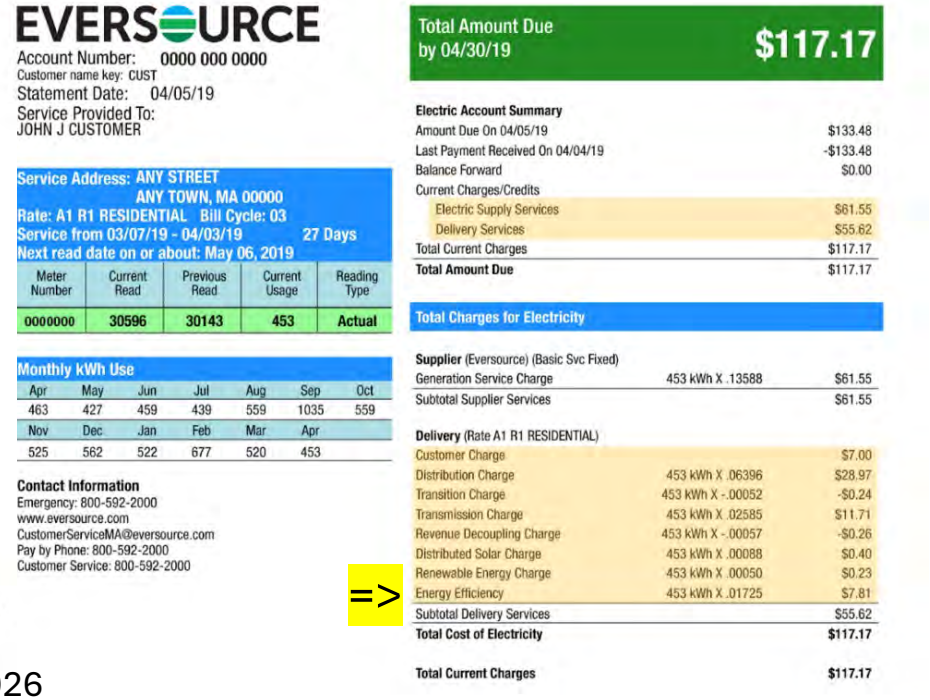
National average was $2.76/gallon in late 2026

Role of Electric Energy Efficiency

- Can provide additional “supply” cheaply and quickly
- Reduces participating customers bills plus provides comfort and other benefits



- Unfortunately, it can be cut to provide immediate bill reductions


EVERSOURCE

Account Number: 0000 000 0000
Customer name key: CUST
Statement Date: 04/05/19
Service Provided To:
JOHN J CUSTOMER

Service Address: ANY STREET
ANY TOWN, MA 00000
Rate: A1 R1 RESIDENTIAL Bill Cycle: 03
Service from 03/07/19 - 04/03/19 27 Days
Next read date on or about: May 06, 2019

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
0000000	30596	30143	453	Actual

Monthly kWh Use

Apr	May	Jun	Jul	Aug	Sep	Oct
463	427	459	439	559	1035	559
Nov	Dec	Jan	Feb	Mar	Apr	
525	562	522	677	520	453	

Contact Information
Emergency: 800-592-2000
www.eversource.com
CustomerServiceMA@eversource.com
Pay by Phone: 800-592-2000
Customer Service: 800-592-2000

=>

Total Amount Due by 04/30/19 $117.17

Electric Account Summary

Amount Due On 04/05/19		$133.48
Last Payment Received On 04/04/19		-$133.48
Balance Forward		$0.00
Current Charges/Credits		
Electric Supply Services		$61.55
Delivery Services		$55.62
Total Current Charges		$117.17
Total Amount Due		$117.17

Total Charges for Electricity

Supplier (Eversource) (Basic Svc Fixed)		
Generation Service Charge	453 kWh X .13588	$61.55
Subtotal Supplier Services		$61.55
Delivery (Rate A1 R1 RESIDENTIAL)		
Customer Charge		$7.00
Distribution Charge	453 kWh X .06396	$28.97
Transition Charge	453 kWh X -.00052	-$0.24
Transmission Charge	453 kWh X .02585	$11.71
Revenue Decoupling Charge	453 kWh X -.00057	-$0.26
Distributed Solar Charge	453 kWh X .00088	$0.40
Renewable Energy Charge	453 kWh X .00050	$0.23
Energy Efficiency	453 kWh X .01725	$7.81
Subtotal Delivery Services		$55.62
Total Cost of Electricity		$117.17
Total Current Charges		$117.17

Source: Specian and Aquino, ACEEE, 2026

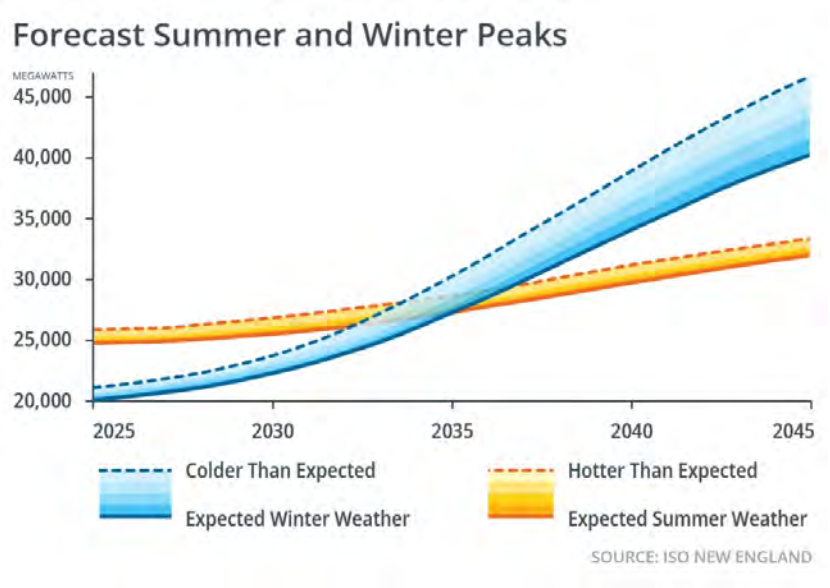
Reducing Electric Costs

- Load flexibility programs to reduce peak demand and costs of peak power
  - E.g., Emerald AI for datacenters
- BYOP and BYOCE
- Securitization with long-term bonds
- Move some costs elsewhere
  - E.g. taxpayers cover some fire or EE costs, perhaps via a carbon price



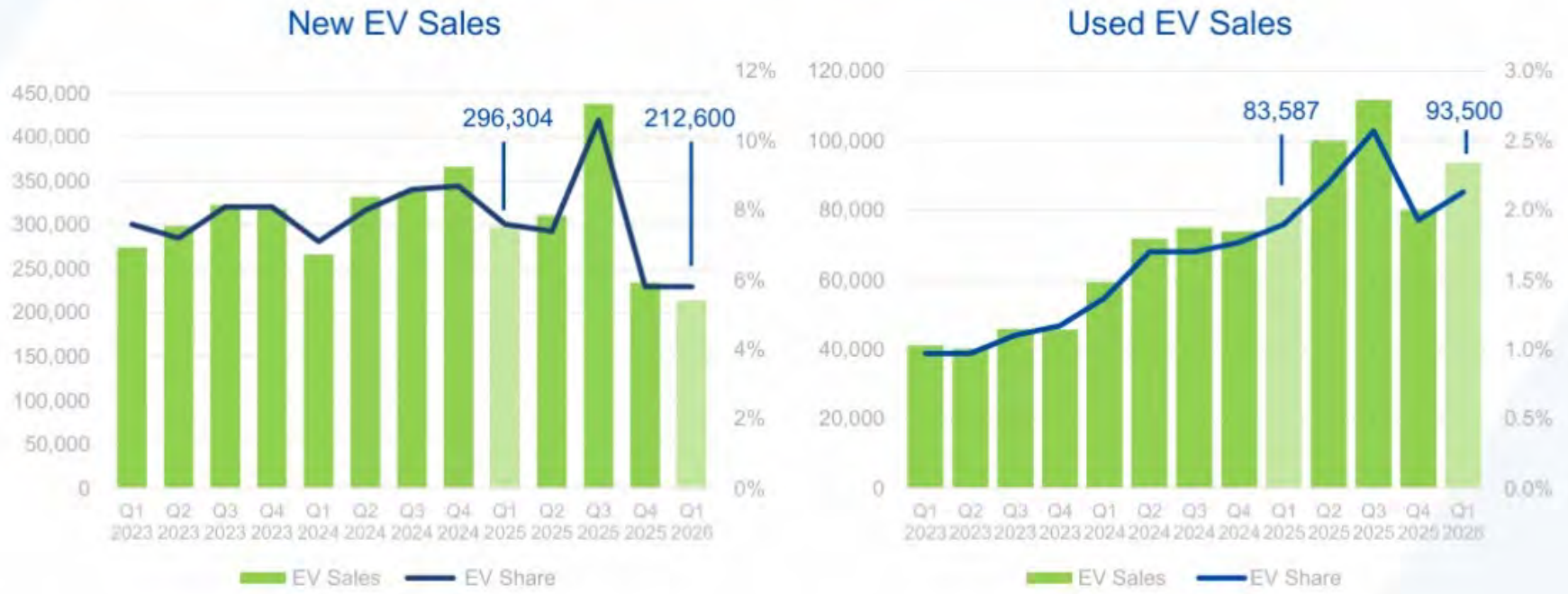
Electricity Prices and Heat Pumps

- Higher electricity prices raises the LCC of heat pumps
- Multiple states and utilities now having special rates for heat pumps (generally still based on cost of service)
  - Easier to justify when power demand peaks in summer
  - Need improved approaches for when power demand peaks in winter



EV Sales Forecast: New and Used Diverge

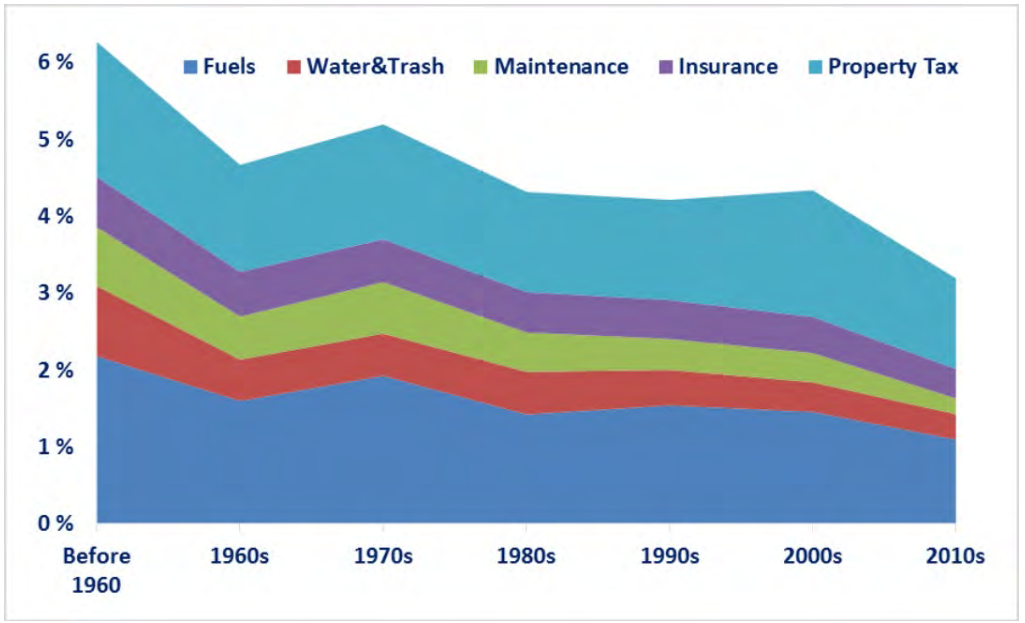
New EV sales down 28% YoY | Used EV sales up 12% YoY



Source: Cox Automotive

Tendency to Focus on First Cost and Short-Term

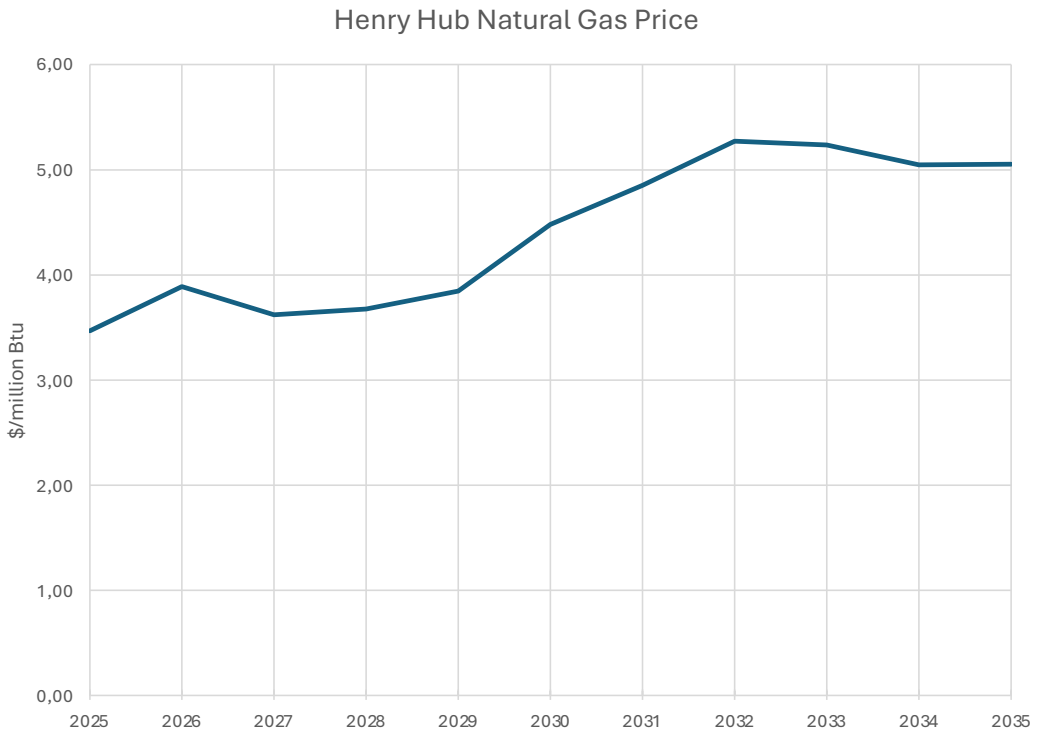
- Get through the next election, even if increases long-term costs (e.g. Maryland utility programs)
- Trump administration rolled back vehicle fuel economy and emissions standards to reduce first costs and increase consumer choice
- They also want to weaken building codes to reduce first cost



Single-family home operating costs as % of home value;

Source: NAHB 2021

Natural Gas: A Future Shock in the U.S.?



1.055 billion Joules in a million BTU. Source: EIA 2026 Annual Energy Outlook



Contact

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ROCKWOOL
clasp
energy saving trust
ODYSSEE-MURE
ENERGY EFFICIENCY WATCH
SEED MICAT
Support Energy Efficiency Deployment with the Multiple Impacts CAlculation Tool
співпраця з німеччиною
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Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
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