



International
Energy Agency

Secure • Sustainable • Together

Dissemination

Duncan Millard

Chief Statistician

International Energy Agency

www.iea.org

Overview

- **Why dissemination is important**
- **Charts – the basics of dissemination**
- **Policy needs and use**
- **Innovation – ideas**

■ Fundamental Principles of Official Statistics

- Principle 1. official statistics that meet the test of practical utility are to be compiled and made available on an impartial basis by official statistical agencies to honour citizens' entitlement to public information. *(73rd plenary meeting 29 January 2014)*

■ Communique of this G20 Ministers Meeting

- We also acknowledge the importance of public disclosure of market related information on all energy resources.

■ Raise visibility of statistics and message from stats (advertising)

■ Inform Government, business, public, investors

Data dissemination in IRES

- Importance of energy statistics dissemination
- Data dissemination and statistical confidentiality
- Reference period and dissemination timetable
- Data revision Dissemination formats
- International reporting

Selected Recommendations from IRES

- **The dissemination policy should be user oriented, reaching and serving all user groups, including format, and provide quality information**
- **While recognizing the importance of statistical confidentiality, countries should implement those rules in a way to promote access to data while ensuring confidentiality**
- **Countries make their energy data available on a calendar period basis**
- **For international comparability, countries which use the fiscal year, should undertake efforts to report annual data according to the calendar year**
- **Countries announce in advance the precise dates when energy statistics will be released**

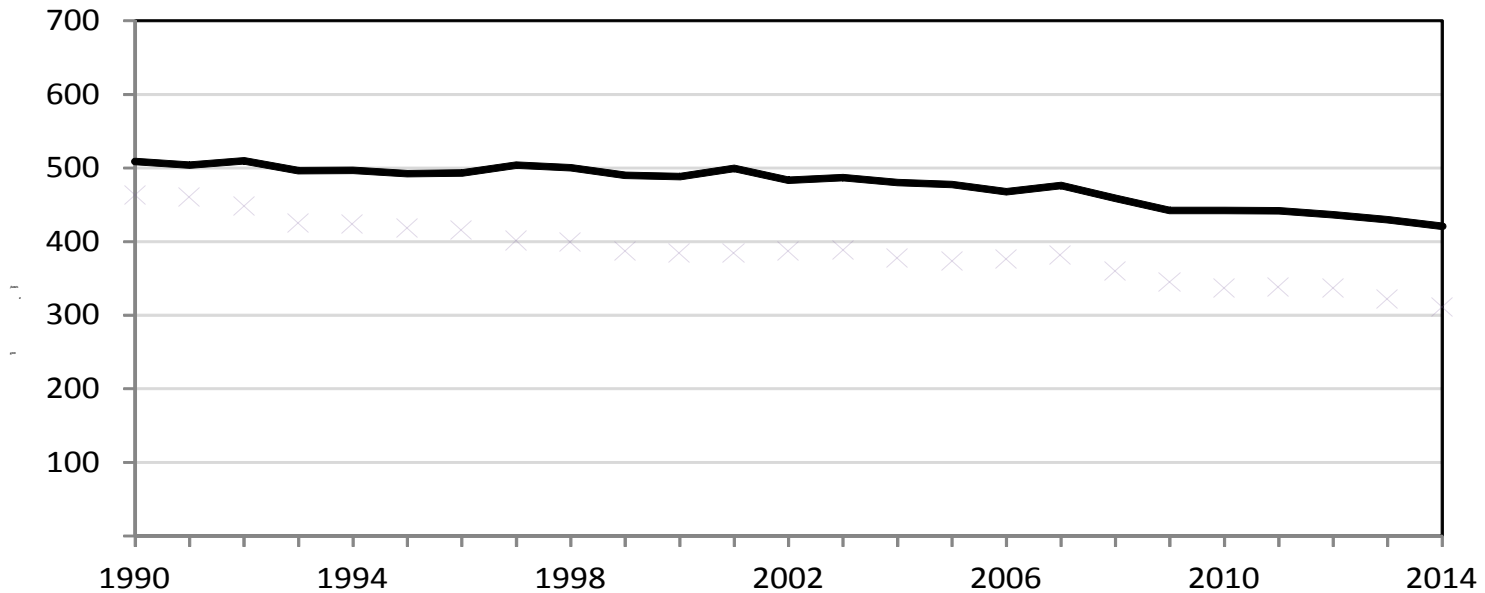
Selected Recommendations from IRES

- **Release dates:**
 - monthly data, within 2 calendar months
 - quarterly data within 3 calendar months after the end of the reference quarter;
 - annual data within 15 calendar months after the end of the reference year
- **Countries are encouraged to harmonize their data with international standards**
- **It is recommended that countries disseminate their energy statistics internationally as soon as they become available to national users and without any additional restrictions. 37**
- **a glossary of terms should always accompany the disseminated tabulations of energy statistics.**

A good picture is worth a thousand words

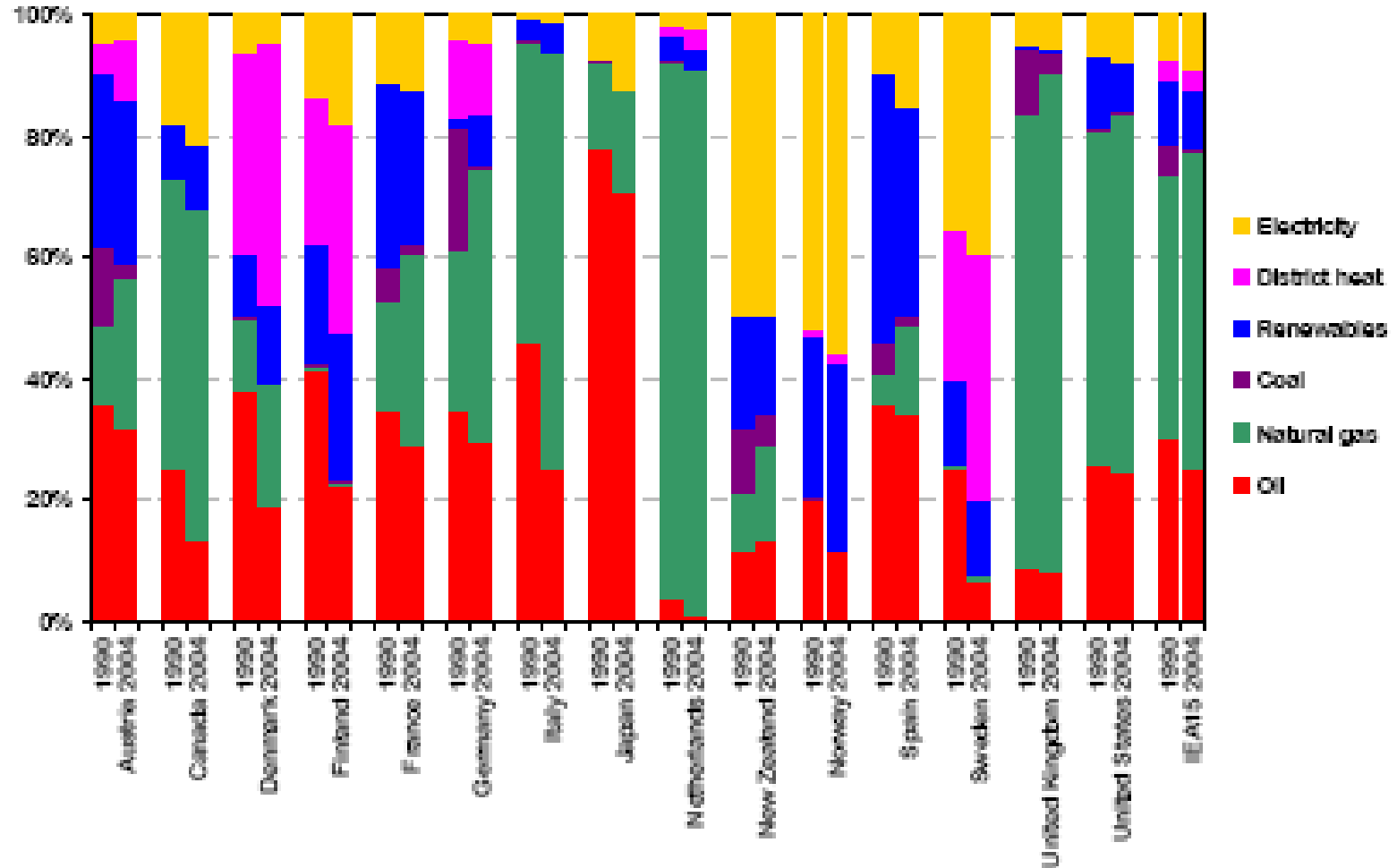
Everyone can understand a good chart!

CO₂ emissions per kWh of electricity generation, OECD



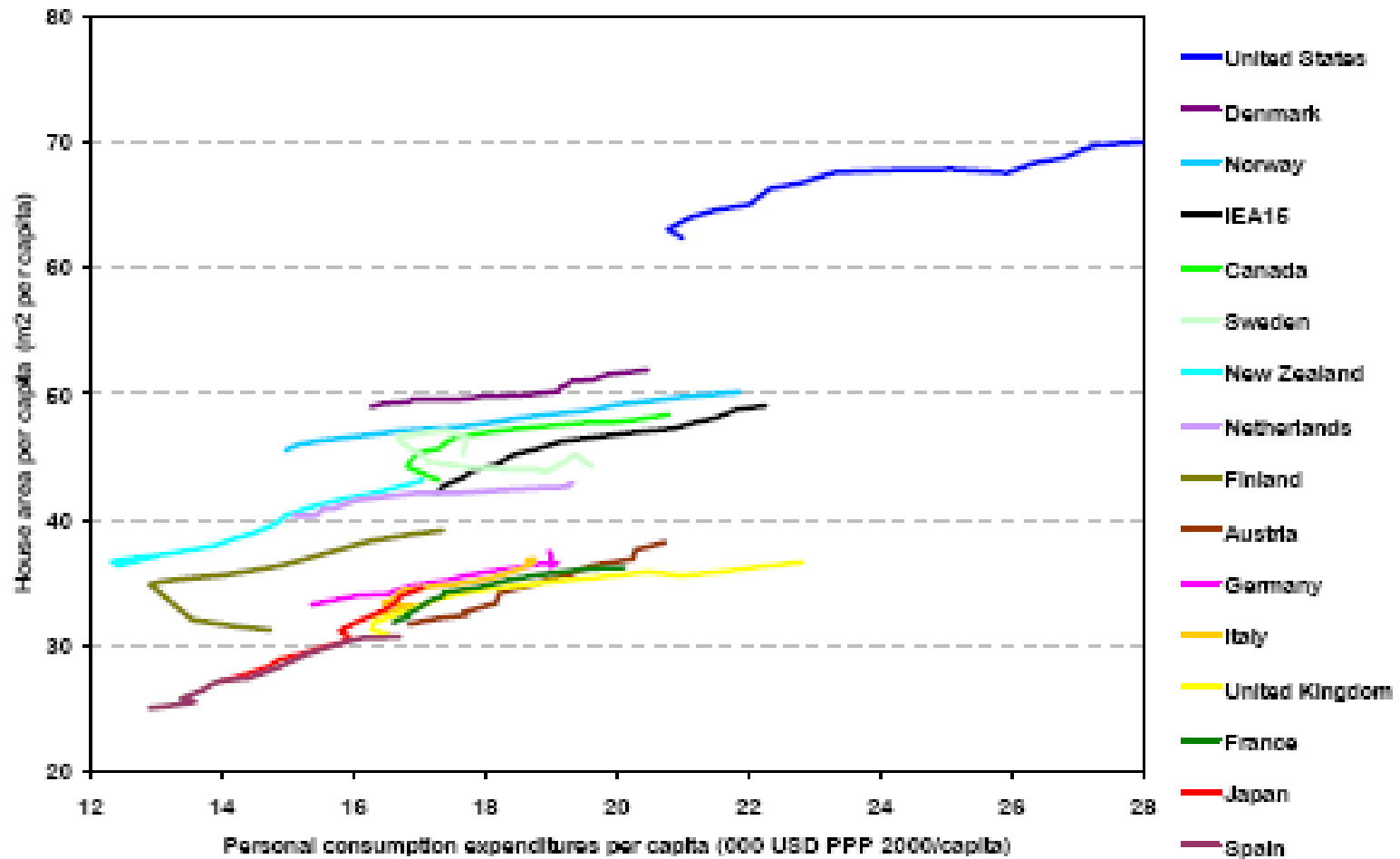
Good chart?

Shares of Space Heating by Fuel



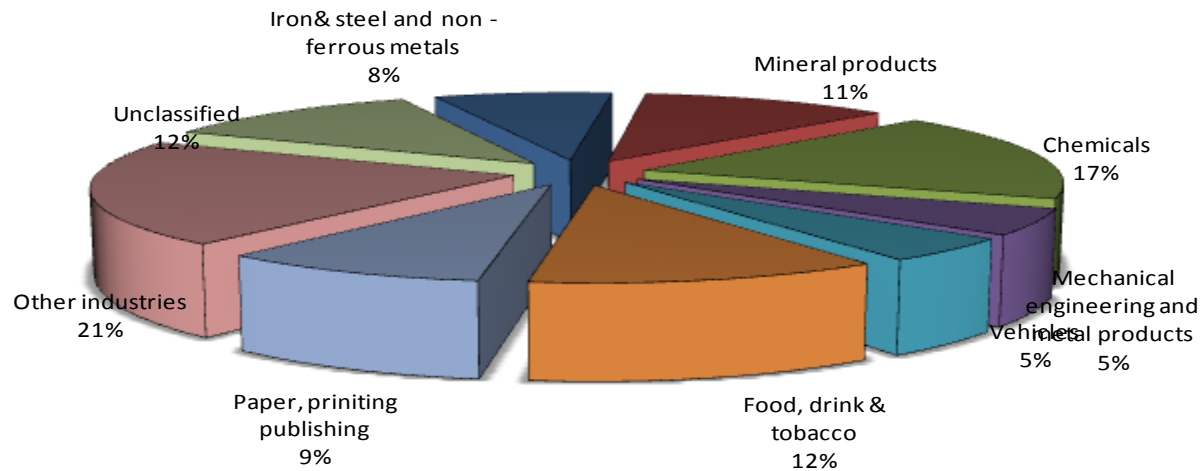
Good chart?

Household area per capita and personal consumption expenditure, 1990 – 2004



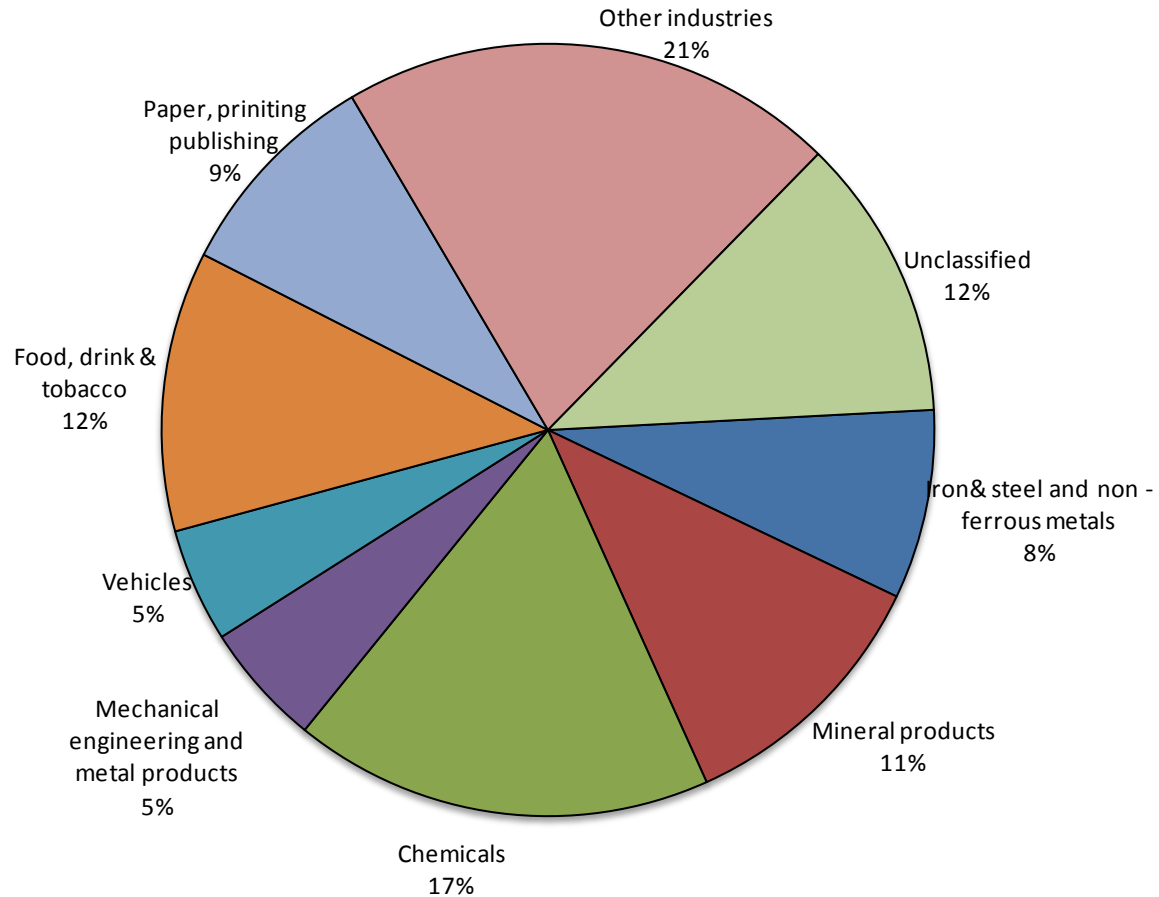
Good chart?

UK Energy consumption by main industrial groups 2009



Clearer chart?

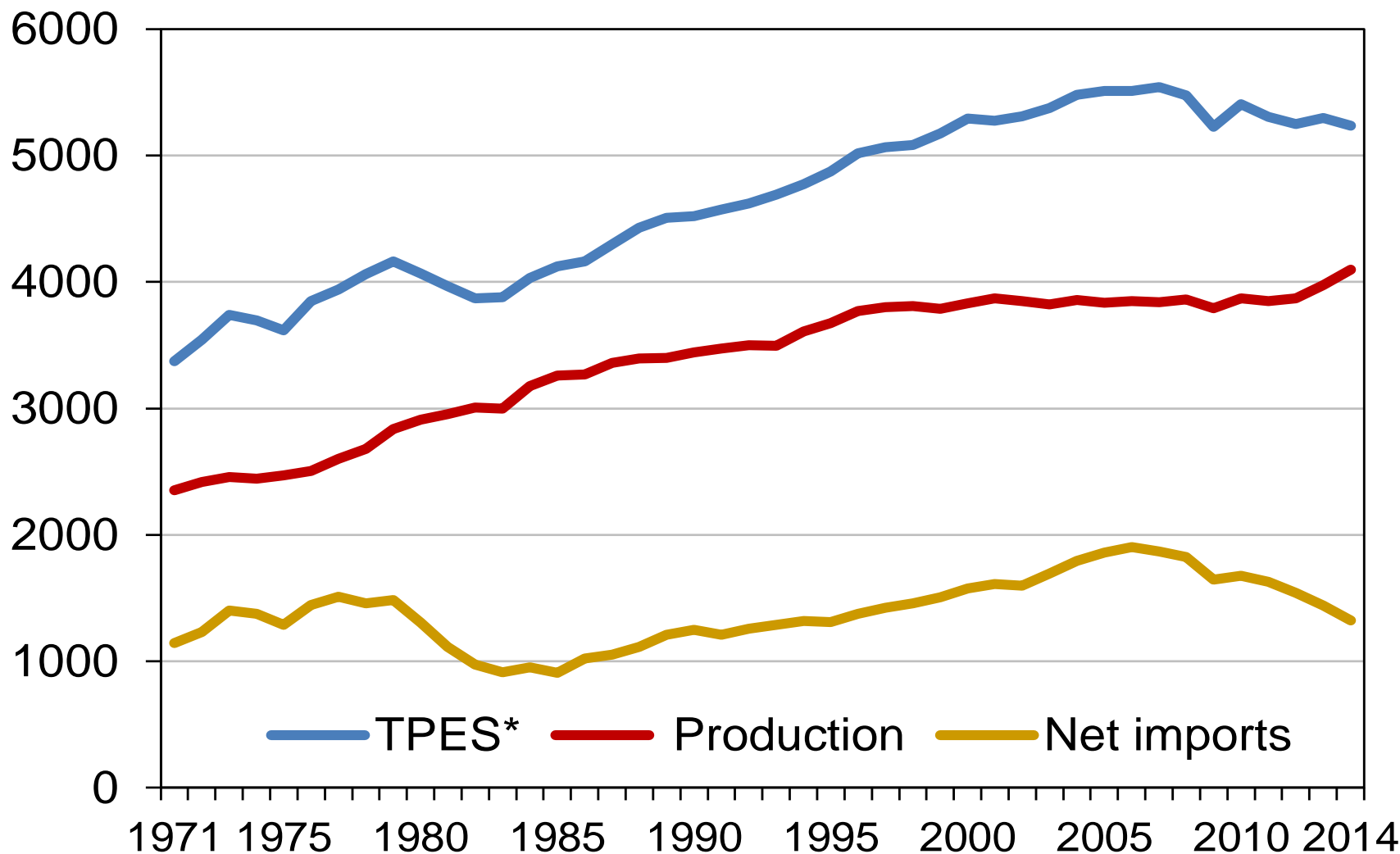
UK Energy Consumption by main industrial groups 2009



Source: Energy Consumption in the UK 2010

OECD energy supply from 1971 to 2014

Million tonnes of oil equivalent





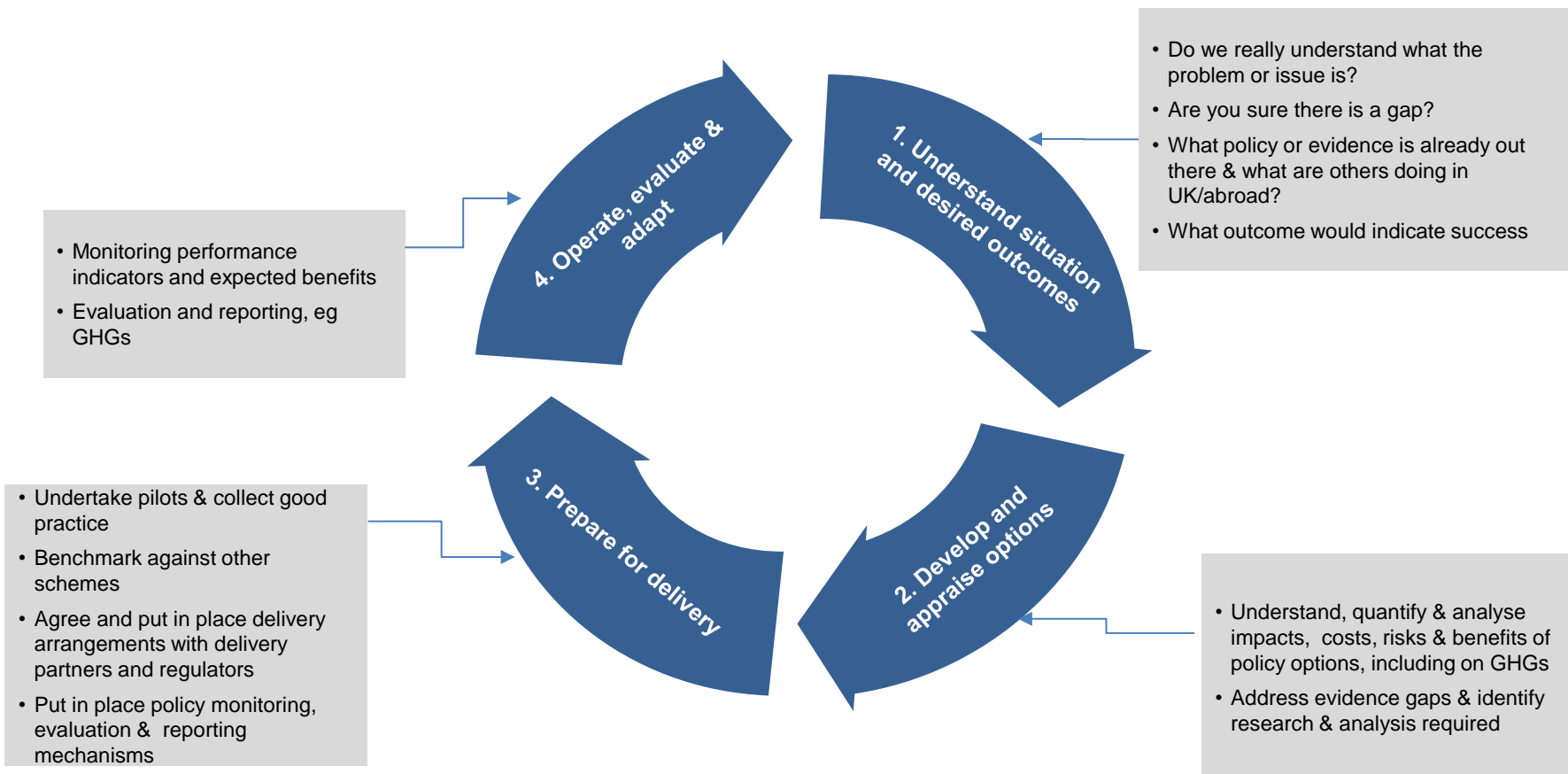
International
Energy Agency

Secure • Sustainable • Together

Data for policy analysis

www.iea.org

The Policy Delivery Cycle – where stats can impact





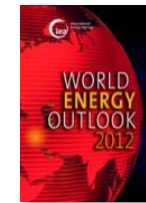
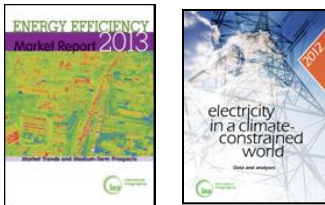
International Energy Agency **IEA statistics feed all IEA studies and analyses**

Secure • Sustainable • Together

www.iea.org



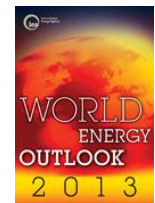
**ENERGY
MARKETS AND
SECURITY**



**SUSTAINABLE
ENERGY POLICY
& TECHNOLOGY**

**Energy
Statistics**

**GLOBAL ENERGY
ECONOMICS**



**GLOBAL ENERGY
POLICY**

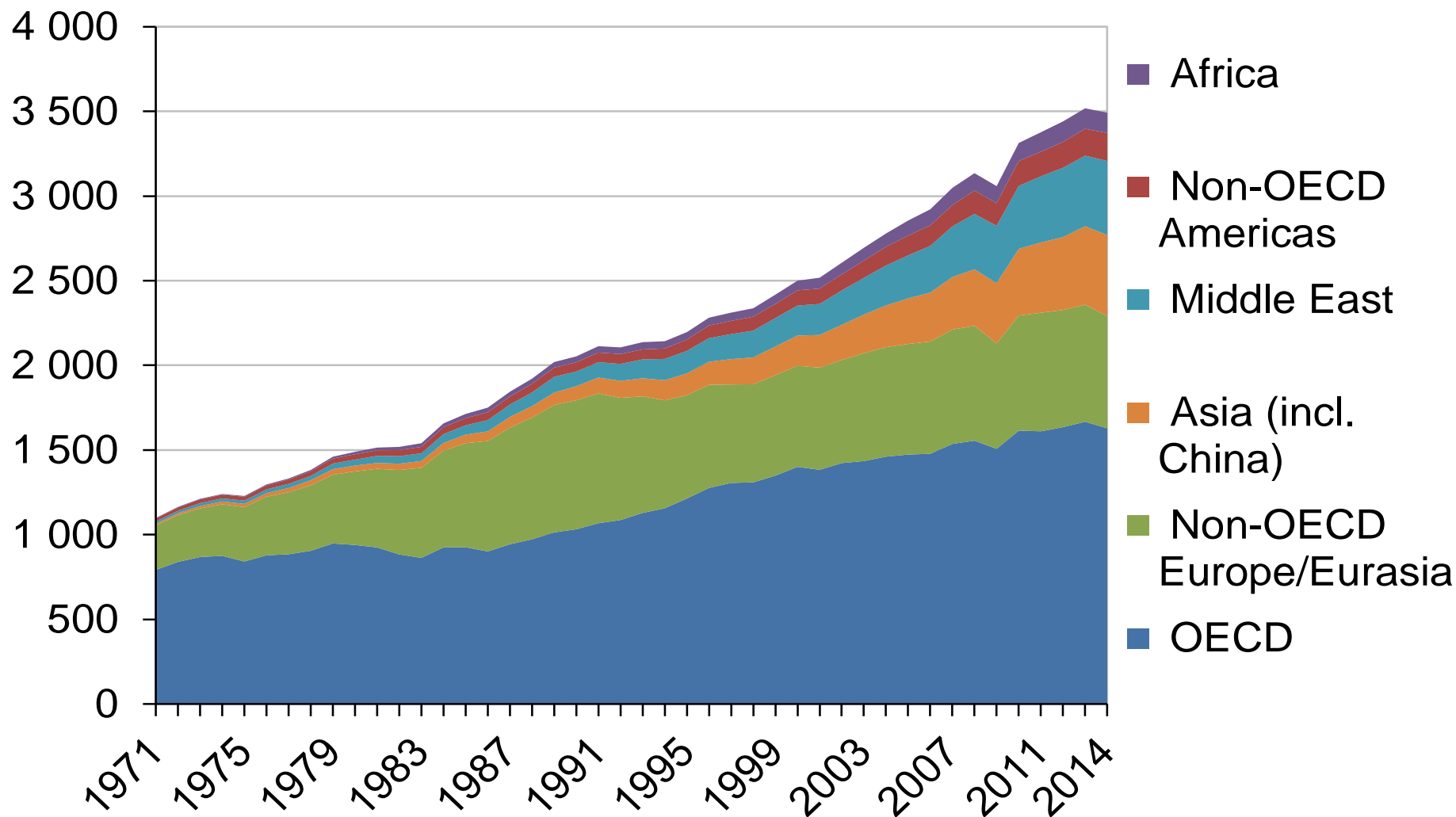


Training

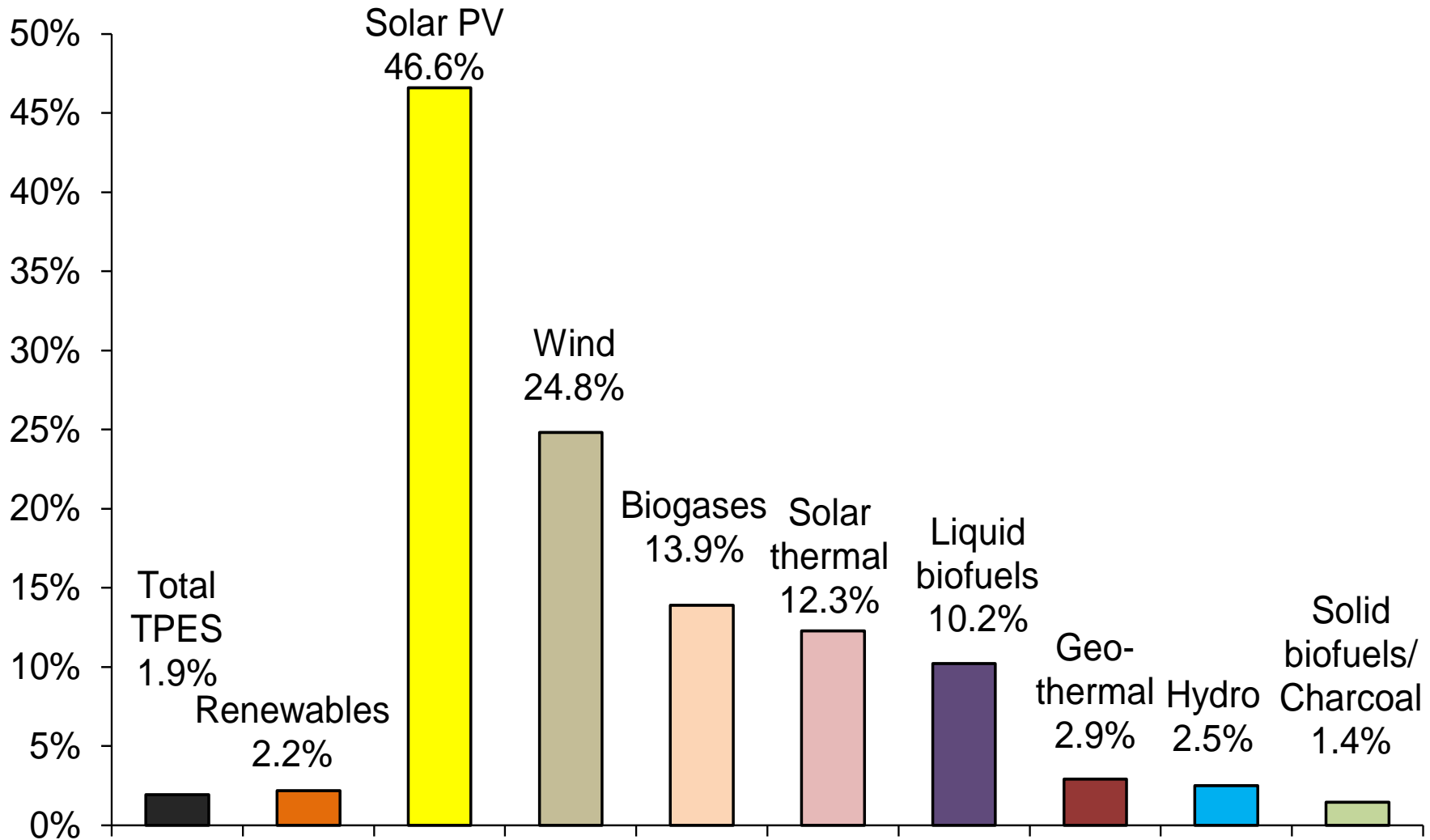


World natural gas demand by region

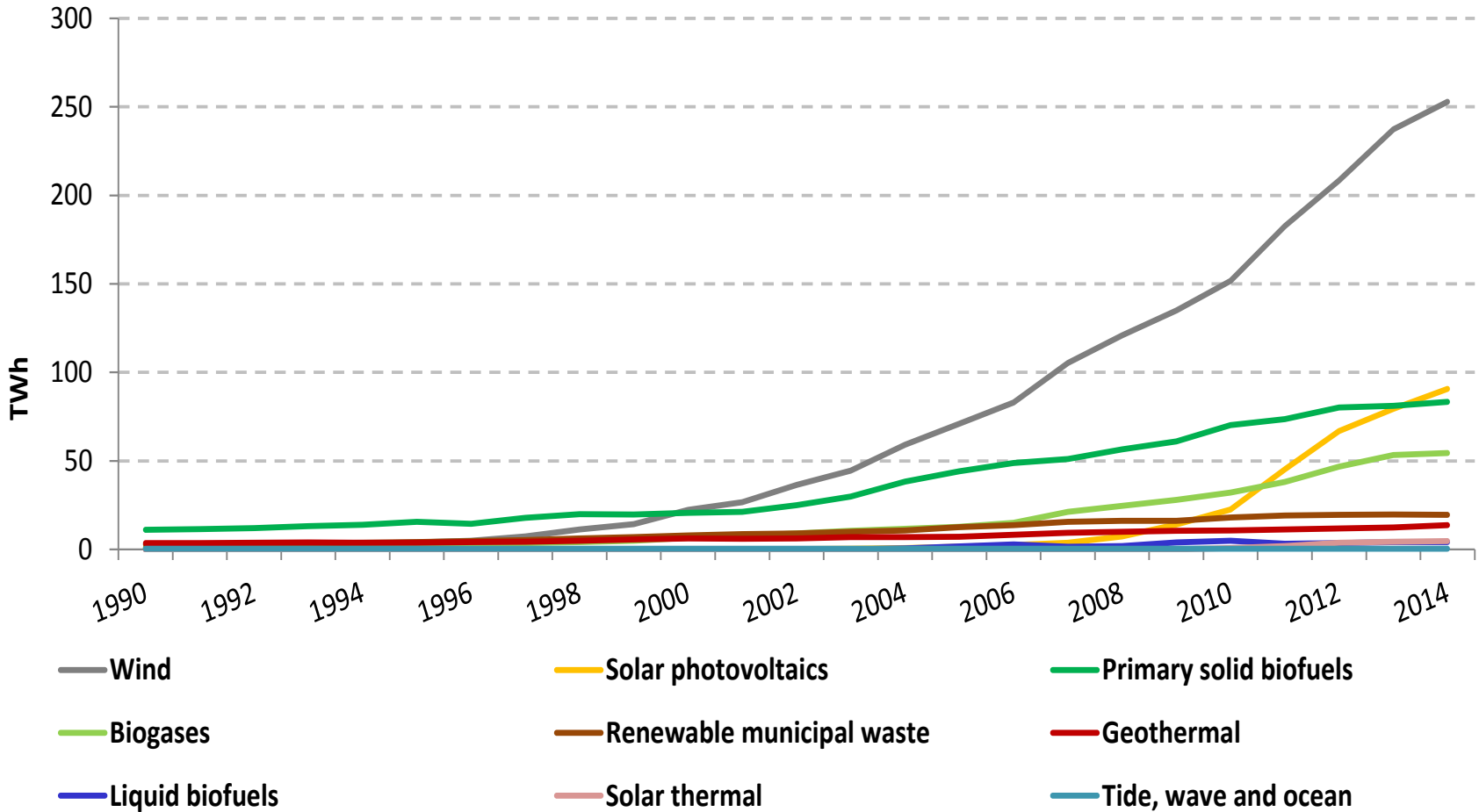
Billion cubic metres



Annual growth rates of world renewables supply from 1990 to 2013

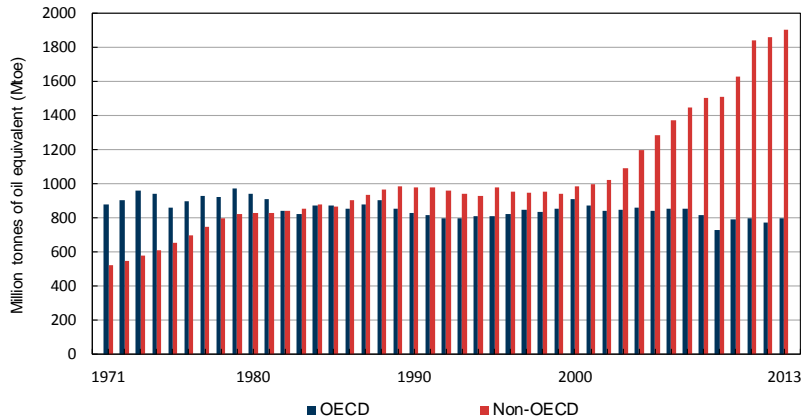


OECD Europe: Non-Hydro Renewable Electricity by source

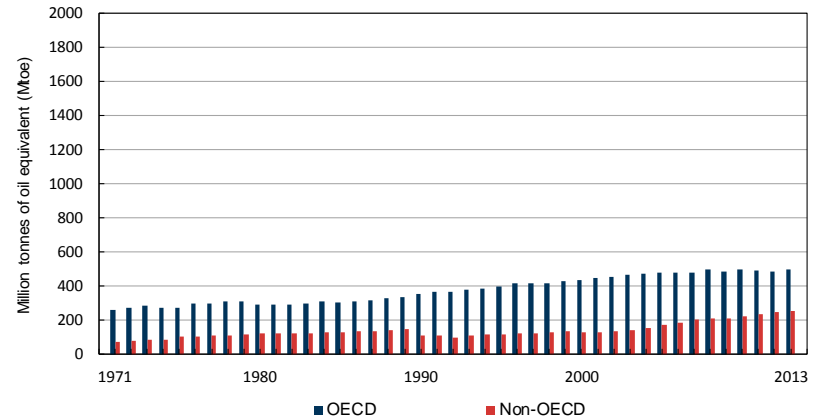


Final energy use by sector

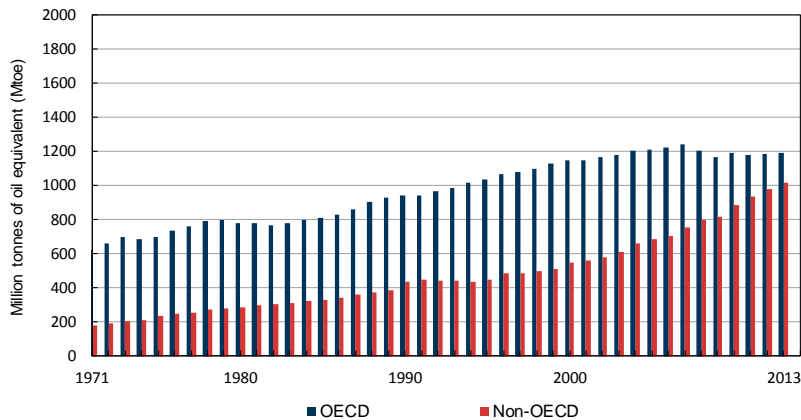
Industry



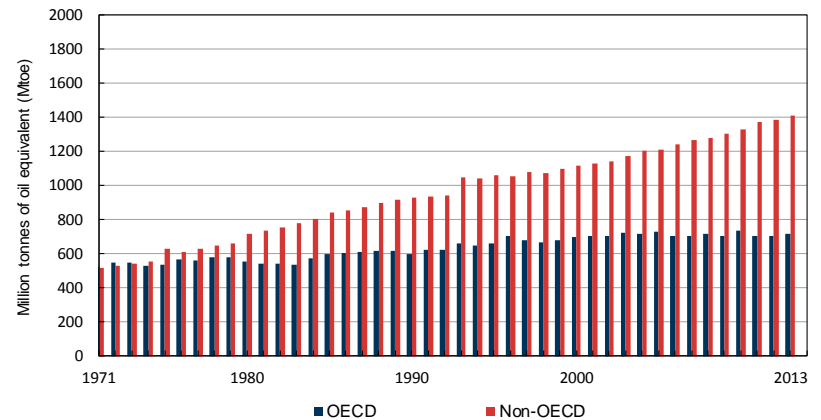
Commercial and public services



Transport



Residential



Source: IEA World Energy Balances, OECD/IEA, Paris, 2015.

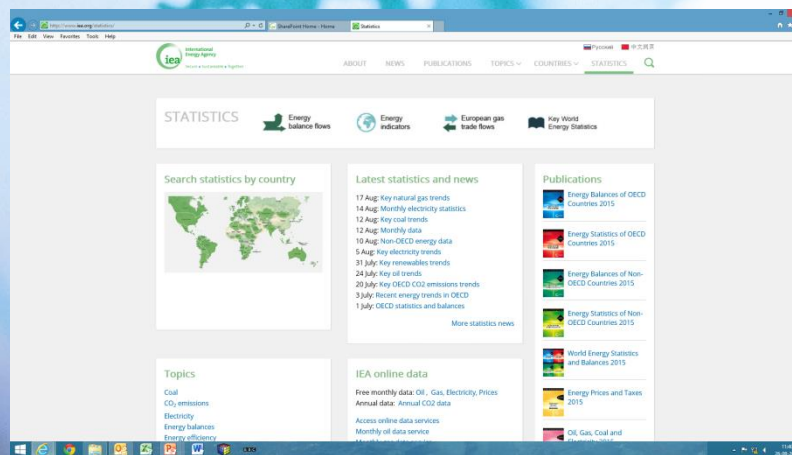


International
Energy Agency

Secure • Sustainable • Together

Data dissemination at the IEA

<http://www.iea.org/statistics/>

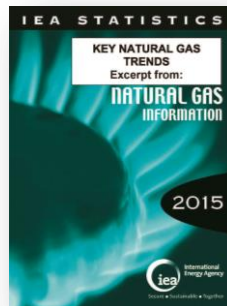
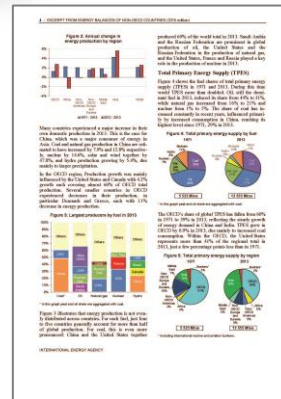
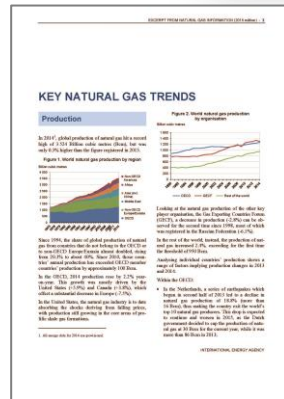
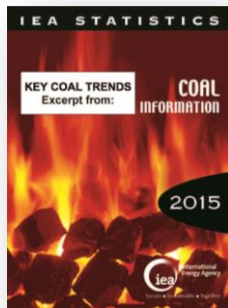
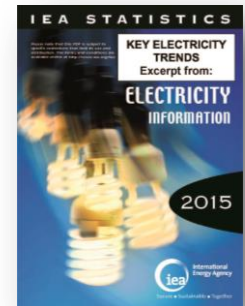
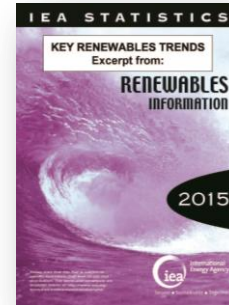
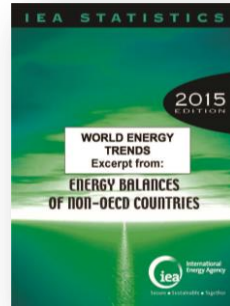
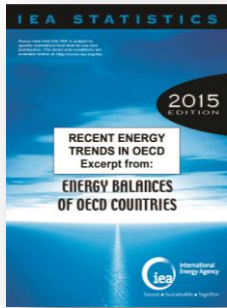


www.iea.org

Developments during 2015

- Redesign of free monthly stats release (changed name from surveys to statistics), include bullet commentary, promoted on stats website
- Partial redesign of books (more next year), all have summary trends sections, data moved forward
- Trends sections reproduced as free PDFs
- First web news release on what data say: production and renewables
- Redesign website
- Free on line headline annual time series data from end October
- New summary 2015 data from monthly surveys – March 2016

Release of free excerpts of publications

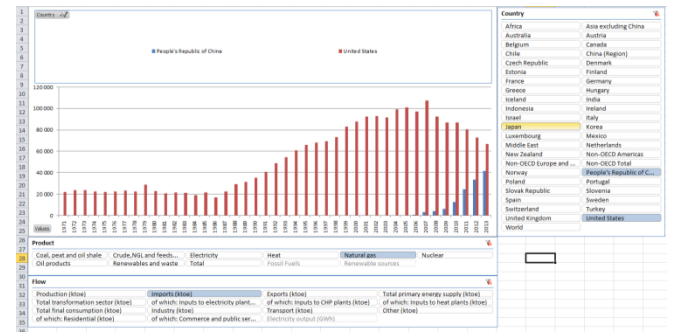


EDC Free Data launched November

Mission: to provide a set of free headline data in a user-friendly format

Output: Freely downloadable Excel-file on the IEA-website including:

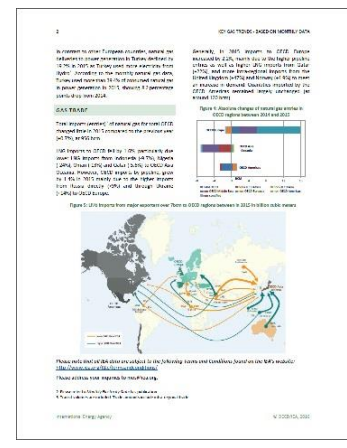
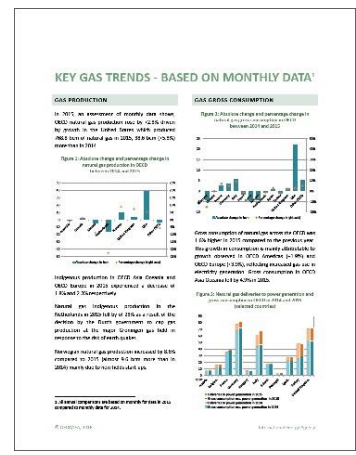
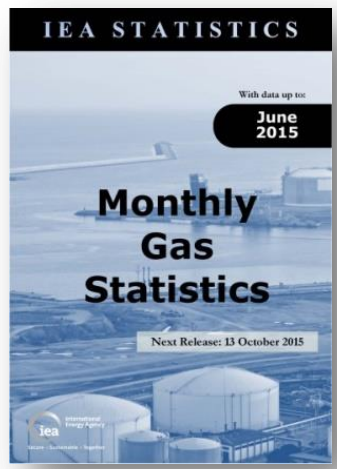
- a) Time series 1971-2013 for 11 products, 5 flows for ~45 countries and regions, out of total of 75 products, 95 flows in full data
- b) Data definitions
- c) Interactive Pivot-chart (example on the right)



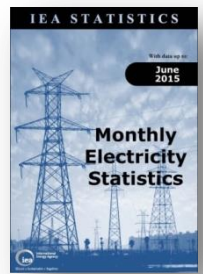
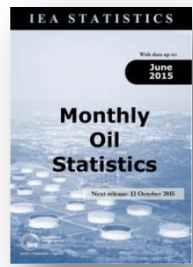
Around 50,000 downloads a month

				AE5858																							
				f _x																							
	A	B	C	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	
1	Country	Product	Flow	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2012	2013	2013	
5168	World	Coal, peat and oil shale	Production (ktoe)	2133522	2219695	2235928	2251599	2237132	2222401	2278841	2394965	2417985	2589956	2802960	2989288	3156461	3268600	3321856	3373860	3545692	3757749	3831827	4006388	3831827	4006388		
5182	World	Crude, NGL and feedstocks	Production (ktoe)	3338479	3394553	3485298	3583733	3645081	3571481	3702723	3701583	3674159	3817542	3995826	4046002	4070191	4045004	4079918	3994336	4076661	4119080	4195253	4215678	4195253	4215678		
5196	World	Oil products	Production (ktoe)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5210	World	Natural gas	Production (ktoe)	1780541	1811567	1889009	1887803	1929285	1990945	2060228	2096436	2151000	2234072	2296197	2362878	2439941	2508726	2610373	2532781	2715009	2785315	2832817	2908634	2832817	2908634		
5224	World	Nuclear	Production (ktoe)	584922	608208	630479	624149	637684	660100	675588	687922	693936	687313	714091	721835	728009	709338	712921	703307	718959	673713	641830	646485	641830	646485		
5238	World	Renewables and waste	Production (ktoe)	1194425	1222001	1241987	1257580	1269350	1289041	1309281	1308808	1330670	1362396	1406479	1449241	1490546	1533067	1582329	1616590	1694051	1739149	1795667	1862749	1795667	1862749		
5252	World	Electricity	Production (ktoe)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5266	World	Heat	Production (ktoe)	372	399	423	373	489	576	688	691	775	727	743	866	832	1106	934	904	1156	1123	1131	2200	1131	2200		
5280	World	Total	Production (ktoe)	9032261	9256423	9483124	9605237	9719021	9734543	10027350	10190405	10268525	10692006	11216296	11570110	11885980	12065840	12308331	12221778	12751528	13076128	13298525	13642135	13298525	13642135		
5836	World	Fossil Fuels	Electricity output (GWh)	8026903	8248599	8550413	8823095	9105369	9402739	9958478	10075683	10562699	11129182	11603702	12165638	12696362	13503789	13674974	13512912	14431674	15083207	15388324	15715251	15388324	15715251		
5837	World	Nuclear	Electricity output (GWh)	2242298	2331951	2417193	2393101	2445210	2531148	2590623	2637685	2660778	2635349	2738012	2767952	2791471	2719229	2733085	2696161	2756288	2582635	2460285	2478169	2460285	2478169		
5838	World	Renewable sources	Electricity output (GWh)	2512734	2638802	2677424	2718118	2740098	2762701	2840313	2790778	2887262	2924055	3133271	3299384	3458560	3557830	3762631	3905644	4212563	4427591	4741598	5045688	4741598	5045688		
5839	World	Total	Electricity output (GWh)	12805137	13244444	13672587	13963587	14322073	14729226	15425995	15545389	16153602	16729344	17519279	18282231	18990614	19826265	20216645	20161615	21460313	22158651	22656550	23307163	22656550	23307163		
5852																											

Maximising use of Monthly Statistics



Headline provisional annual data for 2015 published 5th April 2016



OECD electricity generation from wind and solar grew 16% in 2015
 Latest IEA data reports also highlight US-led gains in oil and gas production

Dissemination of Statistics

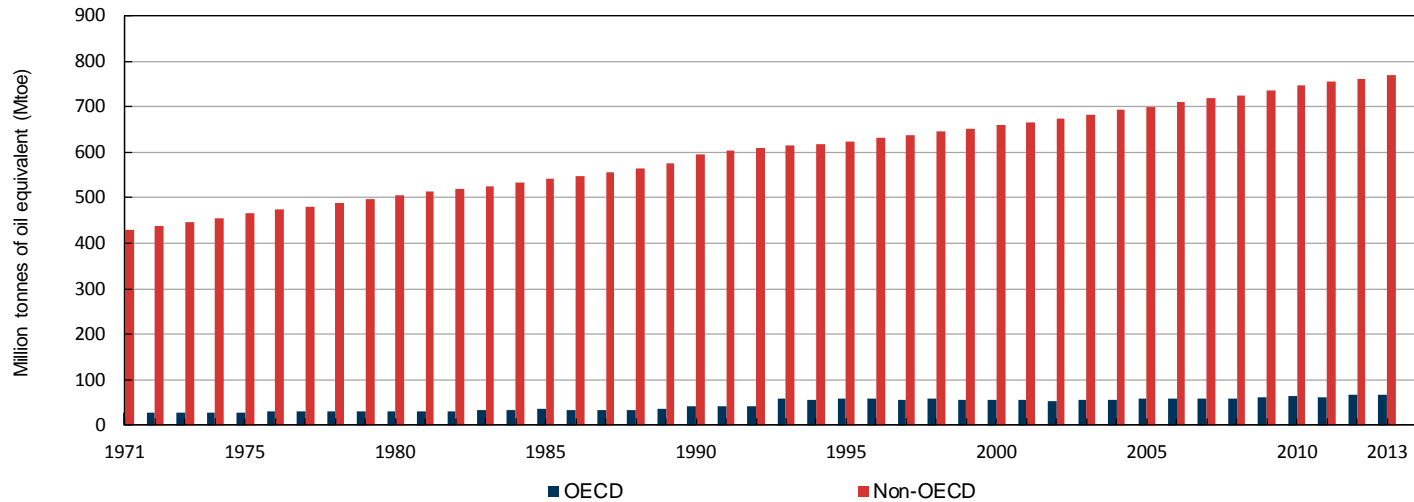
- **Keep it simple but factual**
- **Make access easy for all – website, books, apps, etc**
- **Who is audience, what level of numerical skill**
- **Charts must make point easier to understand – they are the hook**
- **Should raise a “why” question**
 - Associated text should answer

Questions

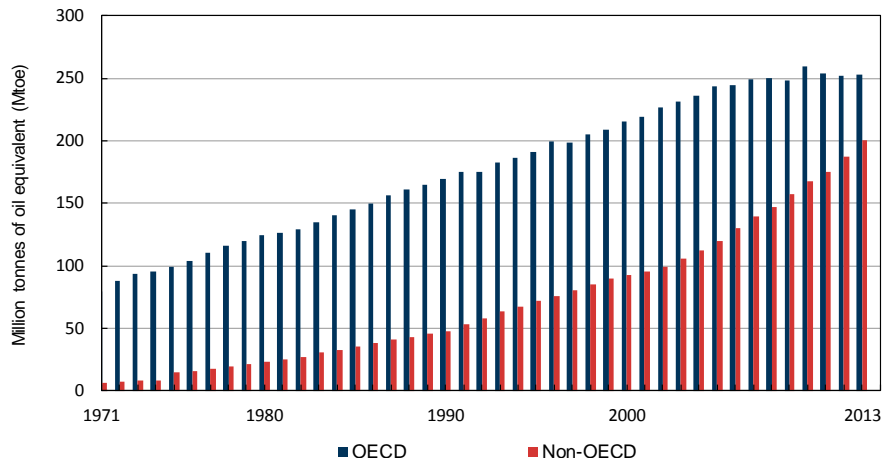


Residential consumption

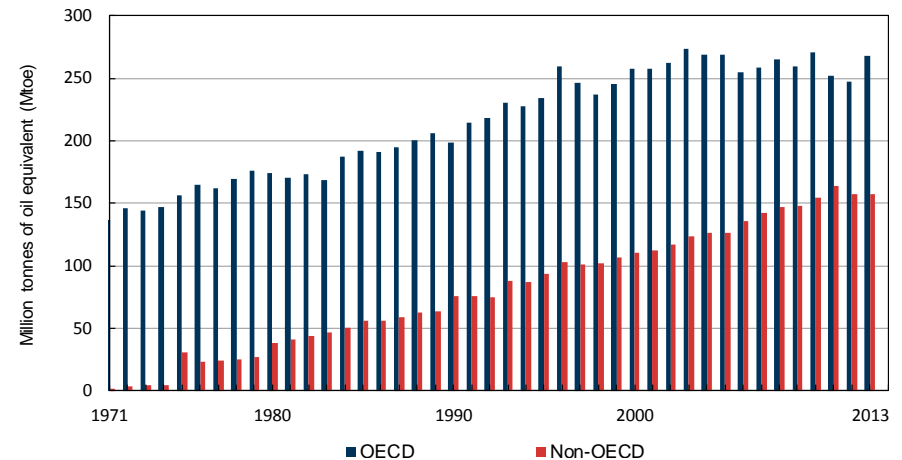
Biofuels and waste



Electricity



Natural Gas



Source: IEA World Energy Balances, OECD/IEA, Paris, 2015.