

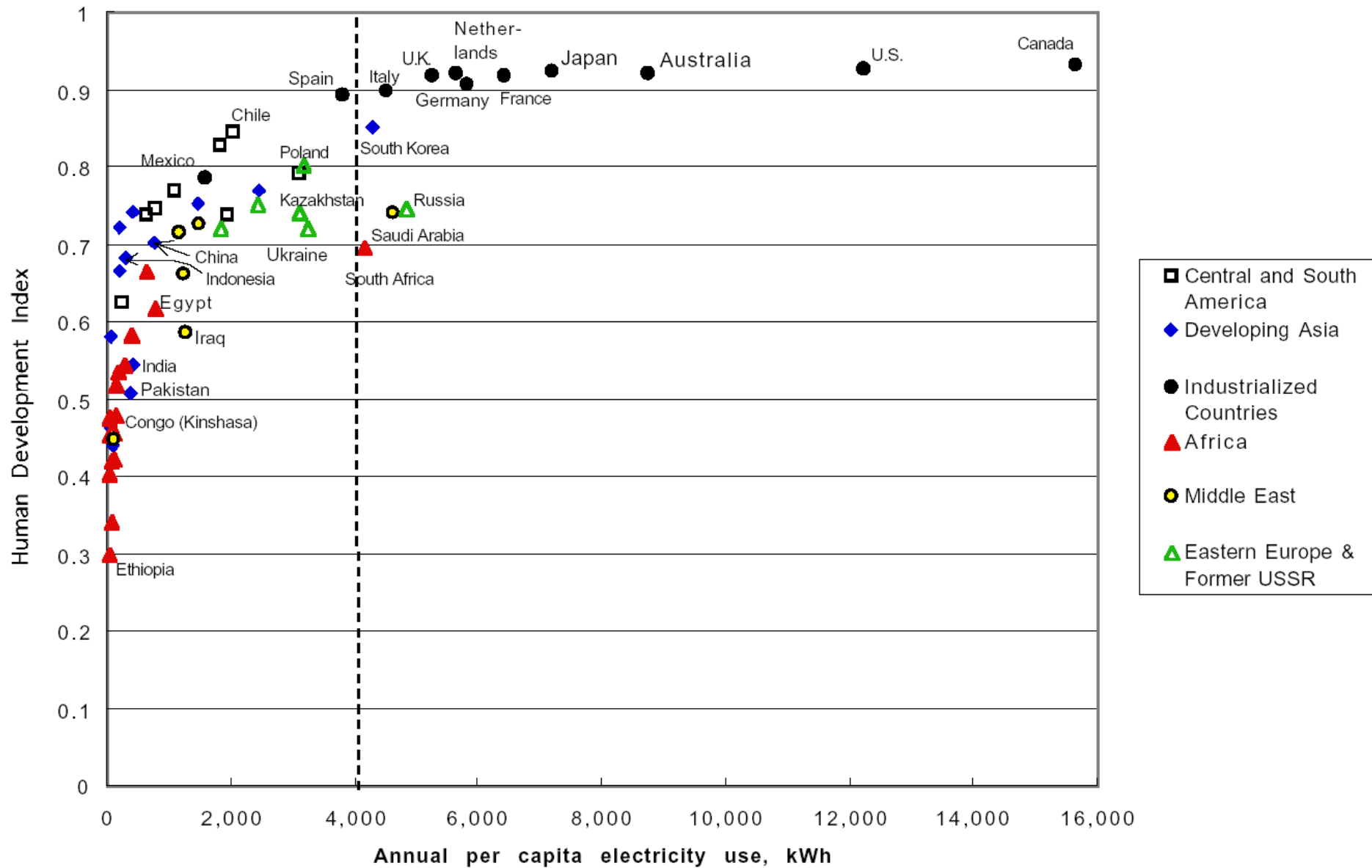
Kärnkraft – Parentes eller Renässans

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Var står vi idag?



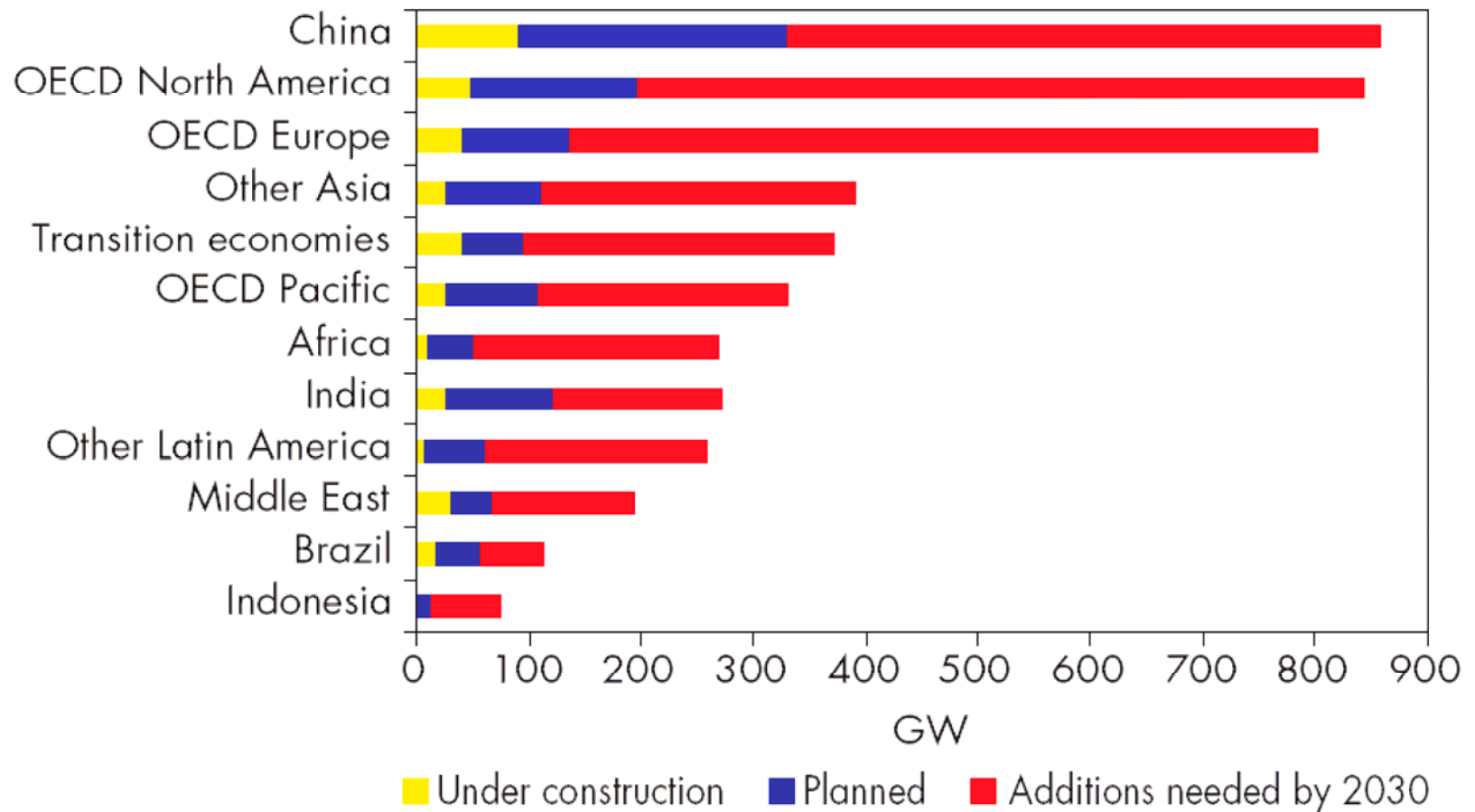


Pasternack, *Global Energy Futures and Human Development: A Framework for Analysis*, Lawrence Livermore National Laboratory, UCRL-ID-140773 (2000)

“No power is more expensive than no power.”

Nitin Desai, generalsekreterare
World Summit on Sustainable Development
Johannesburg 2002

Mycket mer el behövs

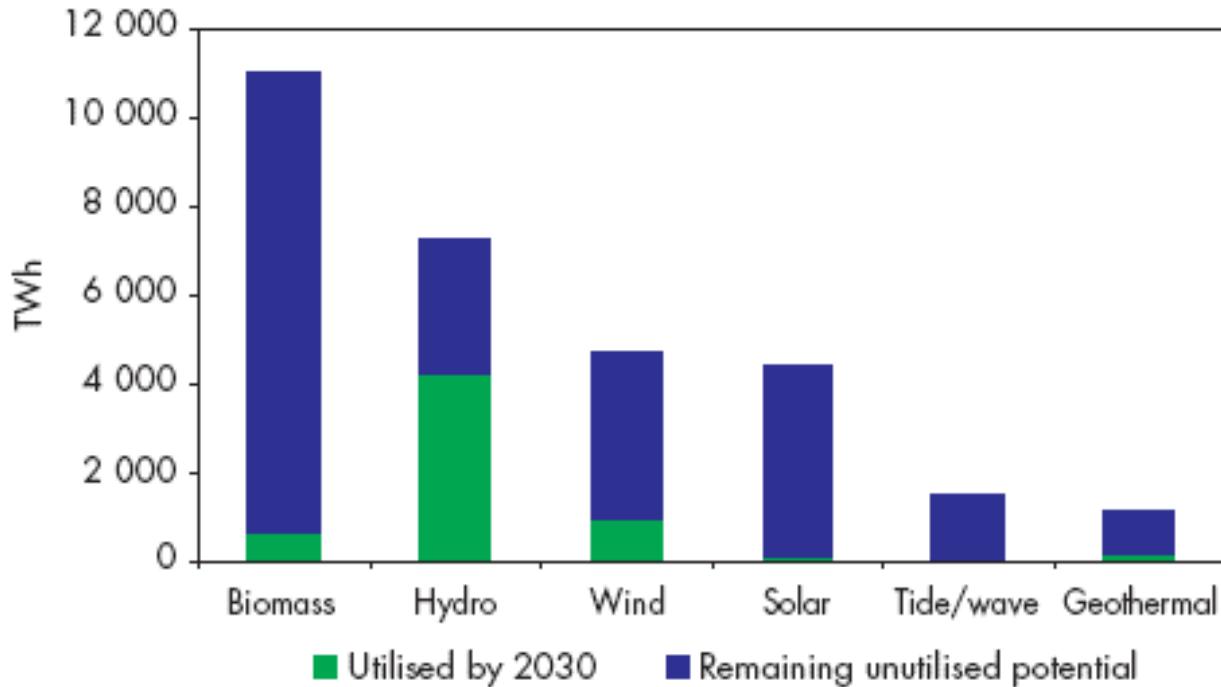


(World Energy Outlook 2006)

Framtidens energiförsörjning

Världens totala energiförbrukning

- 21 000 TWh/år – idag
- 27 000 TWh/år – prognos för 2030



- Fossila bränslen måste ersättas
- Totala energianvändningen kommer att öka kraftigt
- Ingen enskild energikälla är tillräcklig

Reaktorer under konstruktion

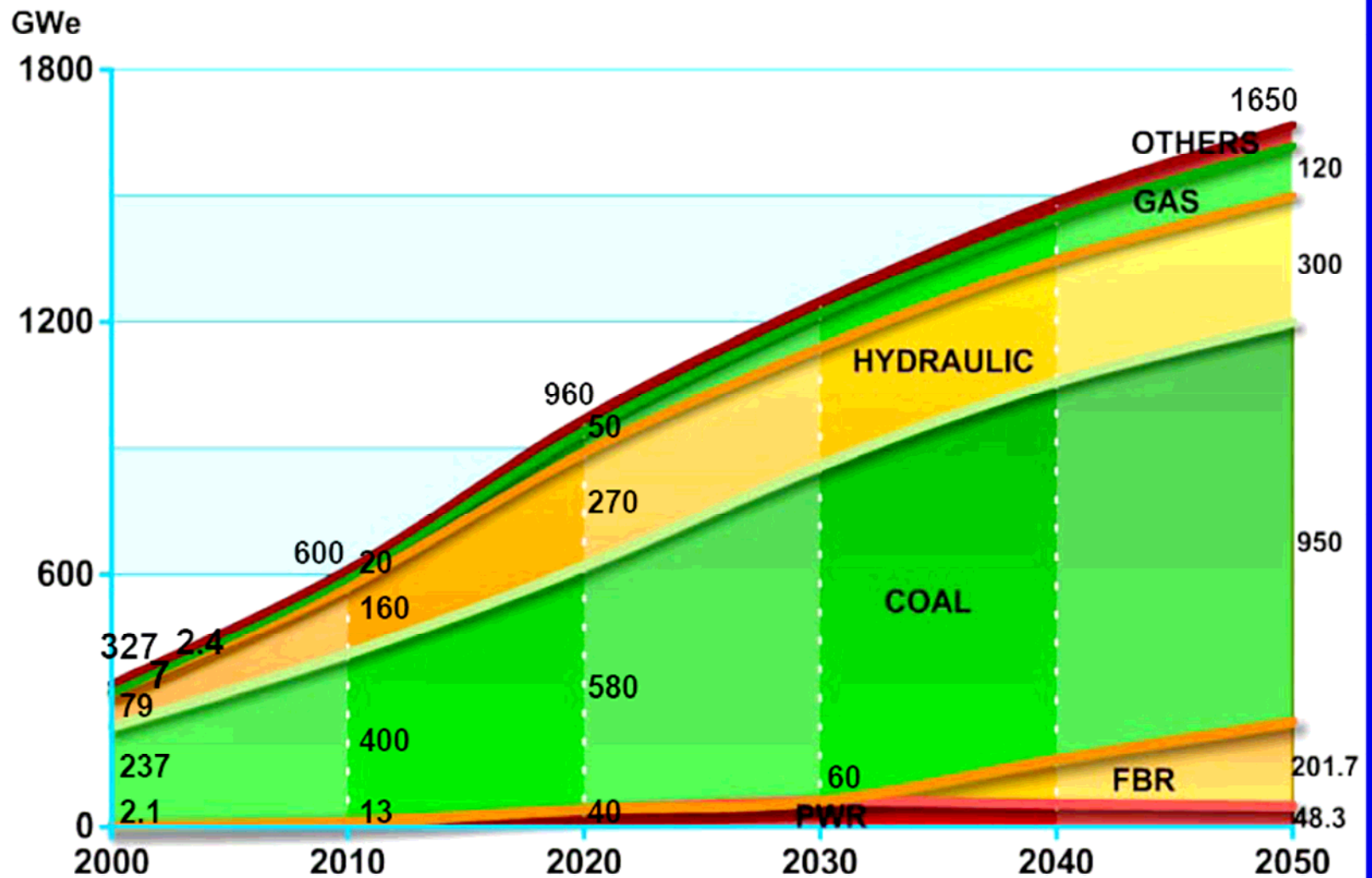
Argentina	1
Finland	1
Indien	7
Iran	1
Japan	2
Kanada (Bruce A)	2
Kina	5
Pakistan	1
Rumänien	1
Ryssland	3
Sydkorea	1
Taiwan	2
USA	1
Totalt	28

www.world-nuclear.org
Siffrorna uppdaterade 2007-01-29

Planerade reaktorer

Brasilien	1
Bulgarien	2
Frankrike	1
Indien	4
Iran	2
Japan	11
Kanada	2
Kina	13
Nordkorea	1
Pakistan	2
Ryssland	8
Slovakien	2
Sydafrika	1
Sydkorea	7
Turkiet	3
Ukraina	2
USA	2
Totalt	64





Electric Capacity Development Envisaged In China



Company	Site	Early Site Permit	Design # of Units	Construction/Operating License Submittal
Dominion	North Anna, VA	Under review, approval expected 2007	ESBWR (1)	November 2007
TVA (<i>NuStart</i>)	Bellefonte, AL	Will go straight to COL	AP1000 (2)	October 2007
Entergy (<i>NuStart</i>)	Grand Gulf, MS	Under review, approval expected early 2007	ESBWR (1)	November 2007
Entergy	River Bend, LA	Will go straight to COL	ESBWR (1)	May 2008
Southern Company	Vogtle, GA	Under review approval expected early 2009	AP1000 (2)	March 2008
Progress Energy	Harris, NC Levy Co., FL	Will go straight to COL	AP1000 (2) Not yet determined (2)	Harris – October 2007 Levy – July 2008
South Carolina Electric & Gas	Summer, SC	Will go straight to COL	AP 1000 (2)	October 2007
Duke	William States Lee, <i>Cherokee County, SC</i>	Will go straight to COL	AP1000 (2)	October 2007
Exelon	Clinton, IL	ASLB Approval December 2006	No decision	No decision on COL
Exelon	Texas to be determined, TX	Will go straight to COL	Not Yet determined	2008
Constellation (<i>UniStar</i>)	Calvert Cliffs, MD or Nine Mile Point, NY plus three other sites	Will go to COL but submit siting information early	EPR (5)	First submittal 4Q - 2007
Duke	Oconee, SC	Considering ESP	No decision	No decision on COL
Duke	Davie, NC	Considering ESP	No decision	No decision on COL
NRG/STPNOC	Bay City, TX	Will go straight to COL	ABWR(2)	Latter part of 2007
Florida Power & Light	Not yet determined	Not yet determined	Not yet determined	2009
Amarillo Power	Amarillo, TX vicinity	To be submitted in 4Q – 2007	TBD	2008
TXU	Glen Rose, TX Other sites yet to be determined	Will go straight to COL	Not yet determined (2-5)	2008
AEH	Bruneau, ID	Will go straight to COL	Not yet determined	2008

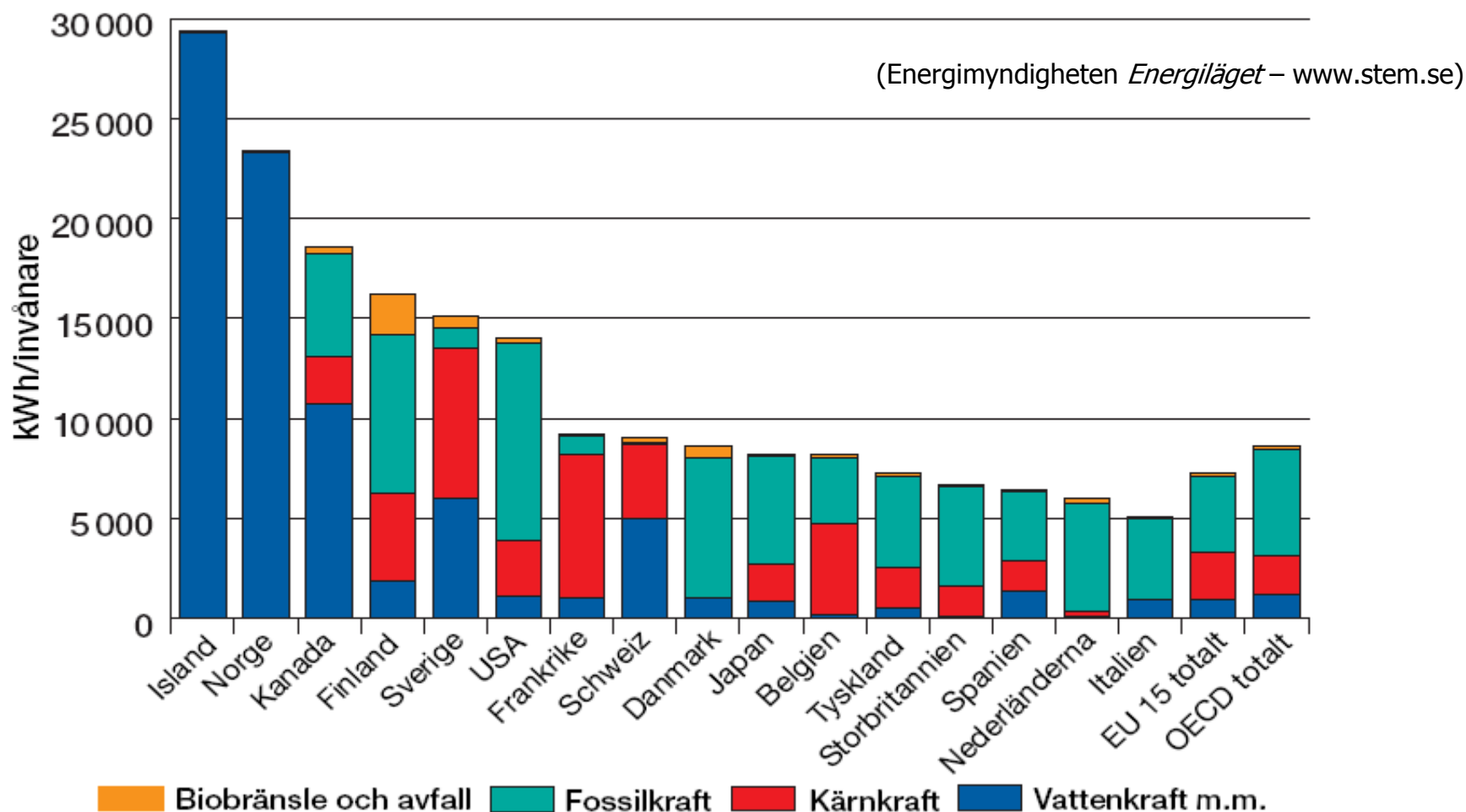
13 aktörer i USA aktiva

Tillståndprocesser för upp till 36 reaktorer

Idag har USA 104 kommersiella reaktorer



Figur 24: Elproduktion per invånare med relativ fördelning på kraftslag 2003



Kärnkraft idag

442 reaktorer i världen idag

Lättvattenreaktorer dominerar helt

10 reaktorer i Sverige

Oskarshamn – 3 reaktorer

Ringhals – 4 reaktorer

Forsmark – 4 reaktorer

4(+1) reaktorer i Finland

Loviisa – 2 reaktorer

Olkiluoto – 2 reaktorer

Stora investeringar i
effekthöjningar i de
svenska reaktorerna

