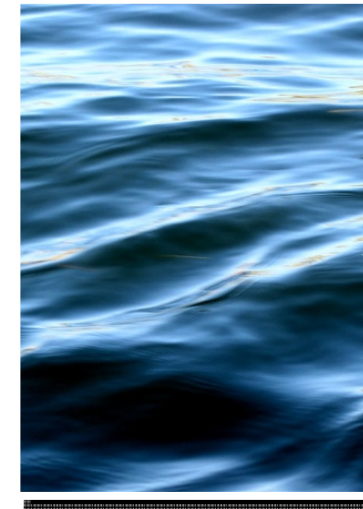
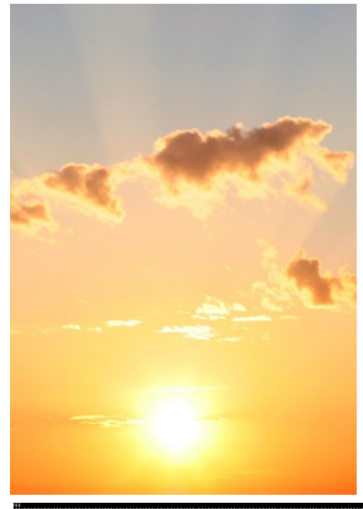


# REPAP

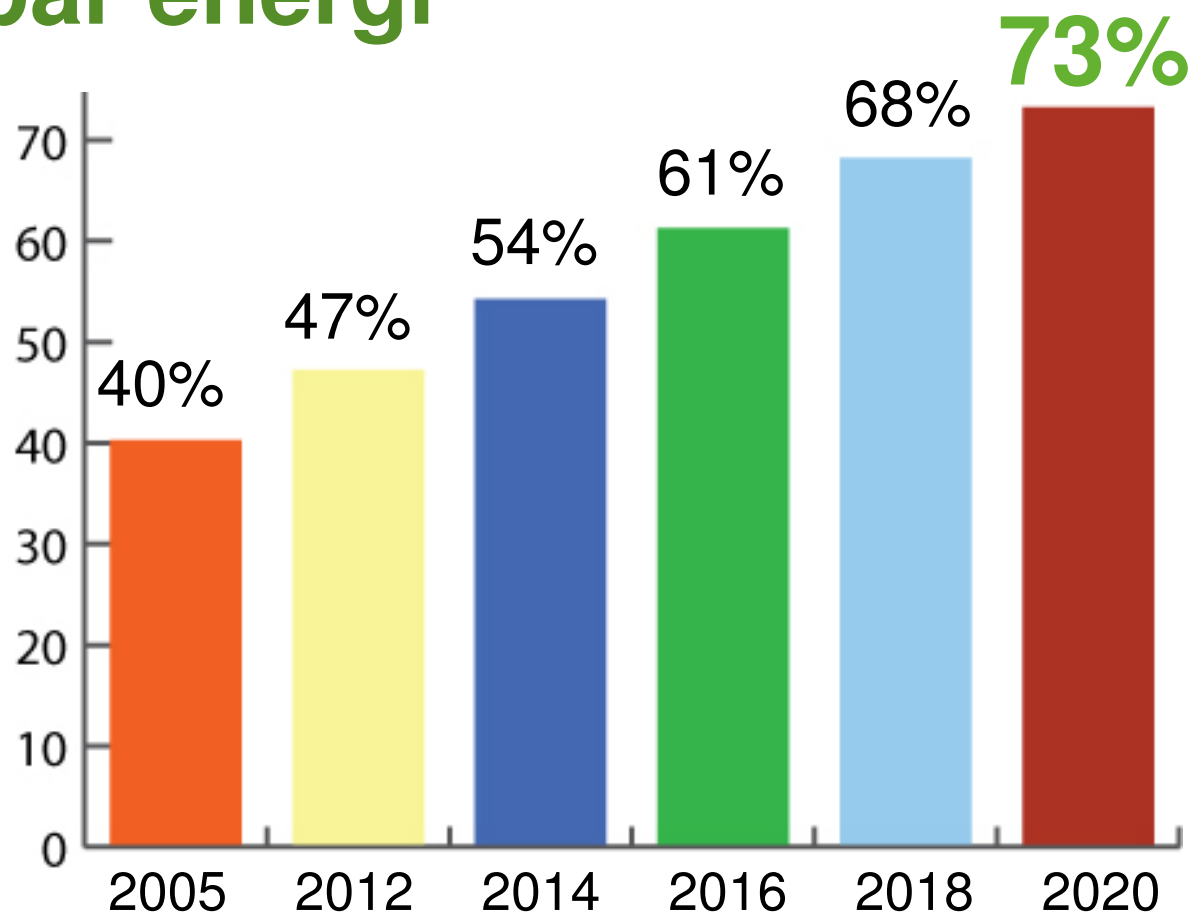


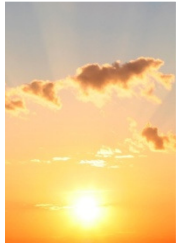
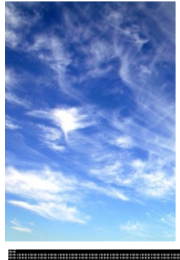
Renewable Energy Policy Action Paving  
the way towards 2020

Glava 12 sept 2011 Peter Danielsson [www.sero-repap.se](http://www.sero-repap.se)

Vårt mål för 2020

## Förnybar energi

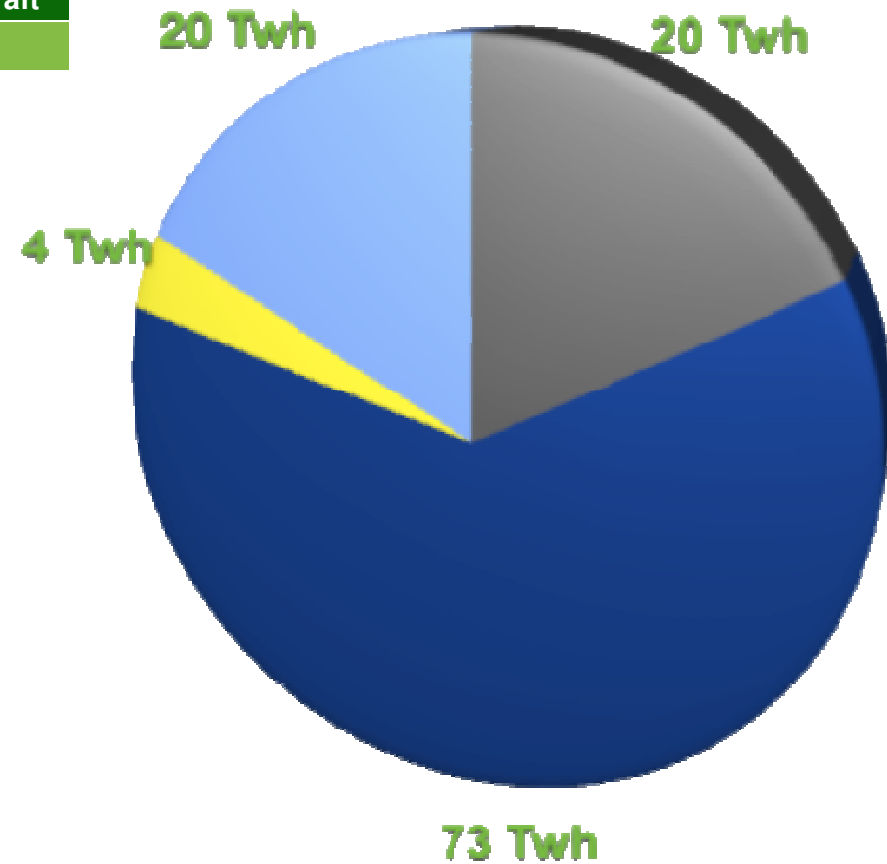




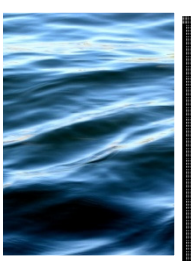
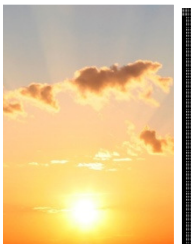
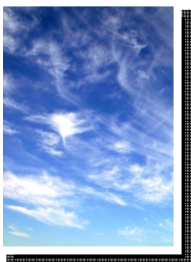
# REPAP

Biomassa	Vattenkraft	Solenergi	Vindkraft
20	73	4	20

## Förnybar energi för elektricitet

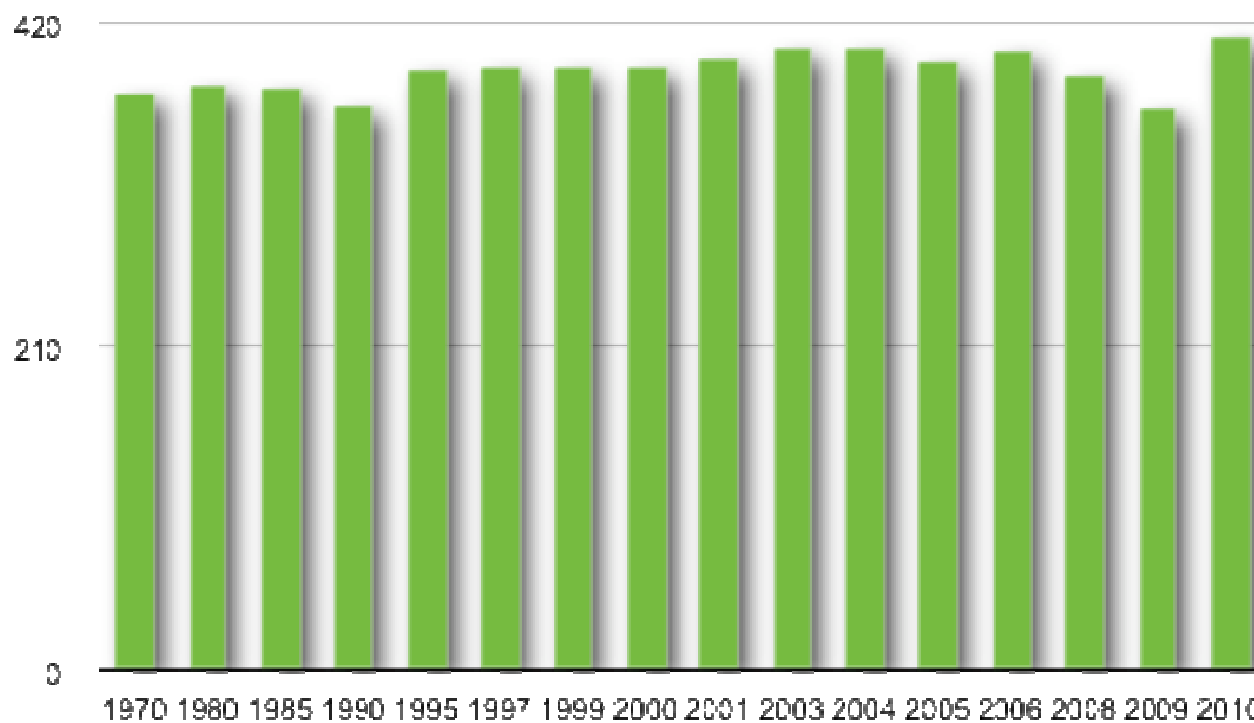


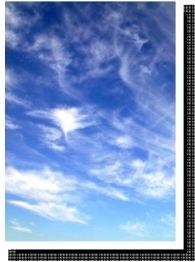
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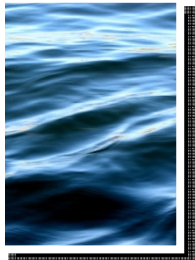
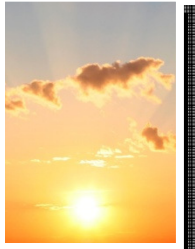
År	TWh
1970	375
1980	381
1985	379
1990	367
1995	391
1997	393
1999	392
2000	392
2001	398
2003	405
2004	404
2005	396
2006	403
2008	388
2009	364
2010	411

## Sveriges slutliga energianvändning

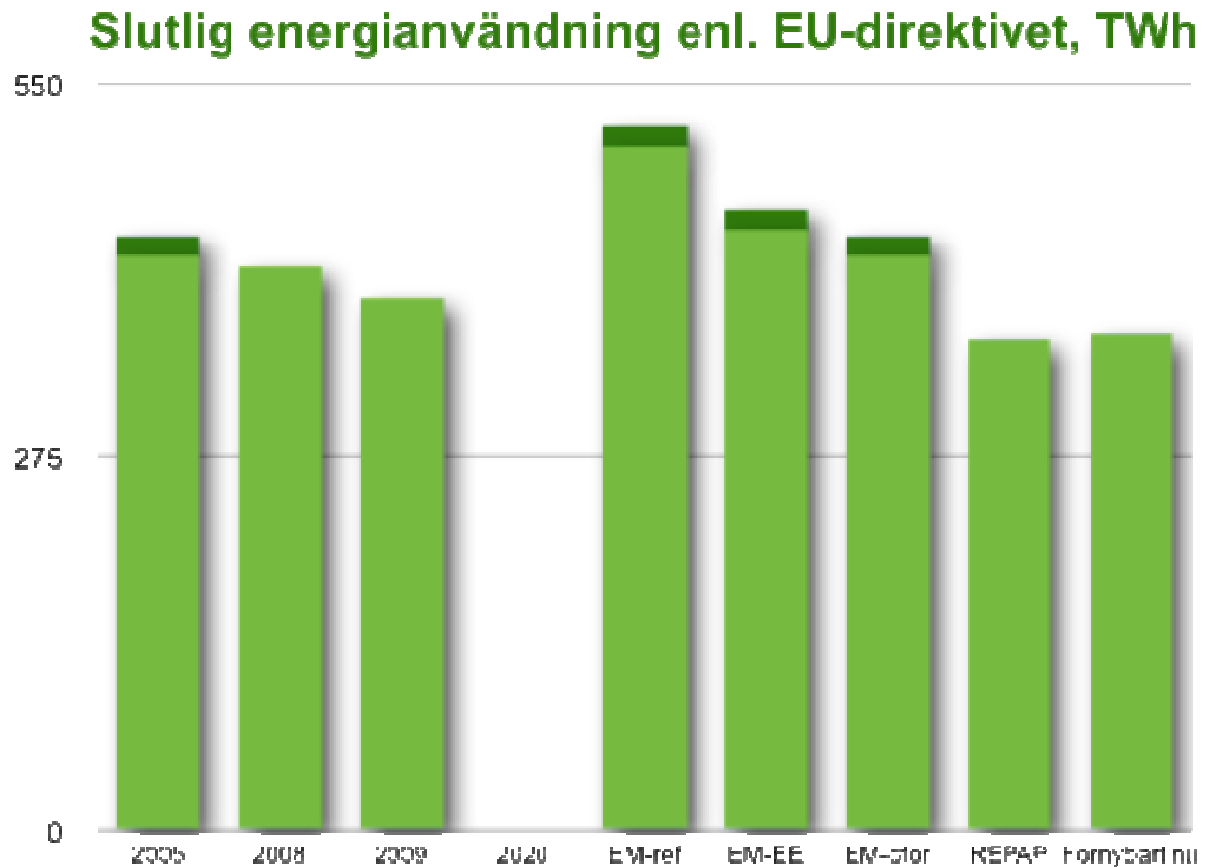




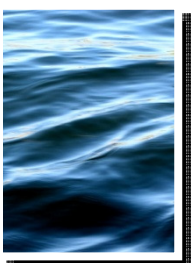
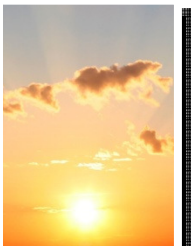
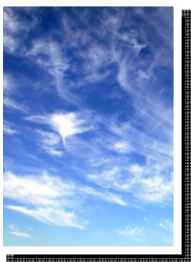
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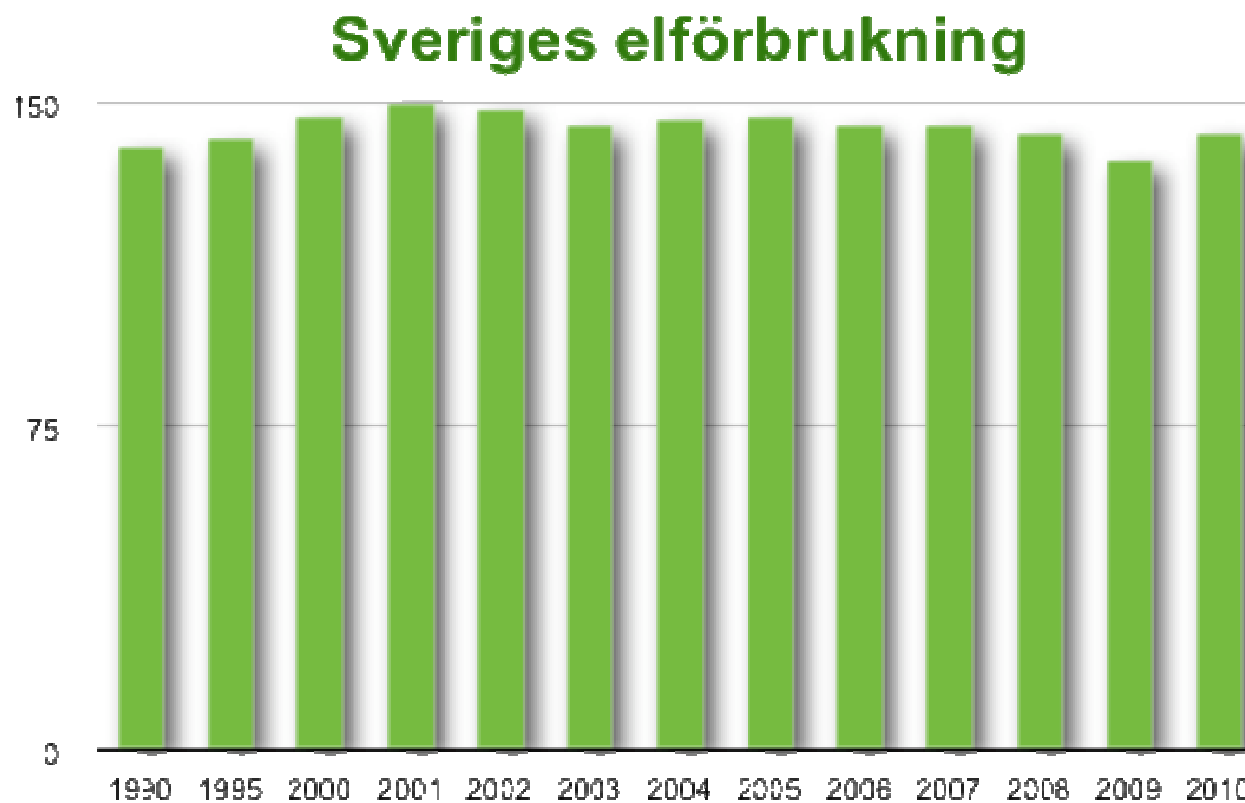
År	Källa	TWh	+TWh
2005		420	16
2008		412	
2009		389	
2020			
EM-ref		500	16
EM-EE		440	16
EM-oför		420	16
REPAP		360	
Förnybart.nu		364	

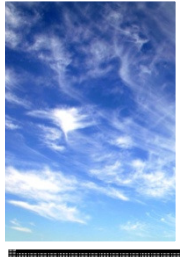


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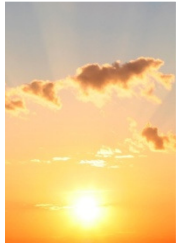


År	TWh
1990	140
1995	142
2000	147
2001	150
2002	149
2003	145
2004	146
2005	147
2006	145
2007	145
2008	143
2009	137
2010	143





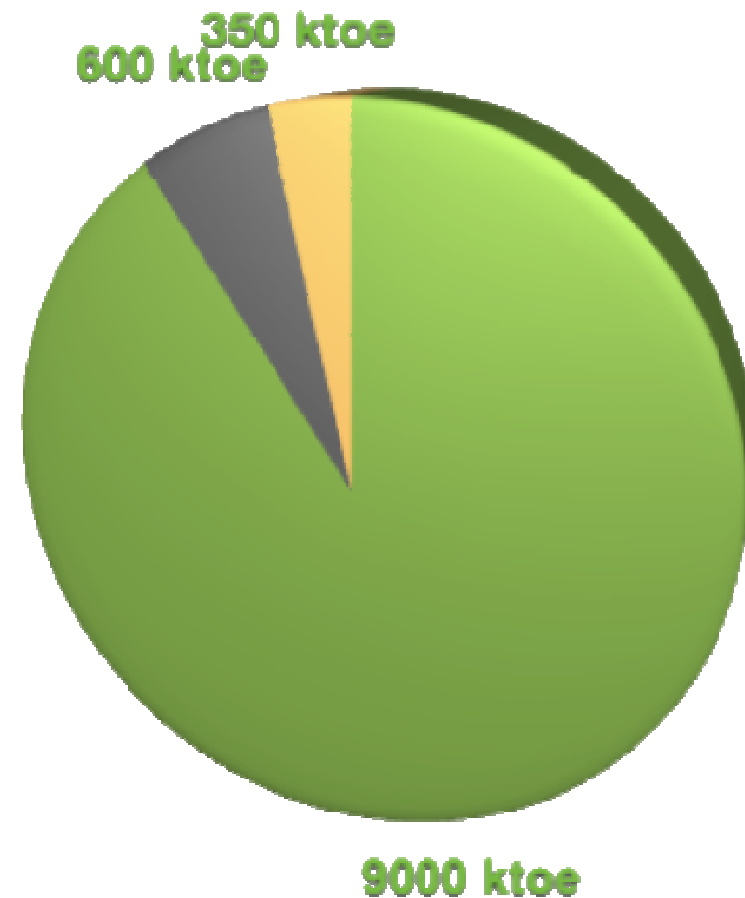
# REPAP

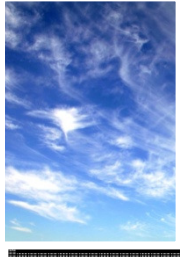


Biomassa	Jordvärme	Solvärme
9000	600	350

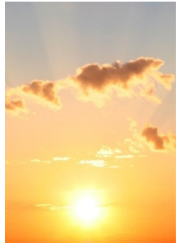


## Förnybar energi för värme/kyla 2020



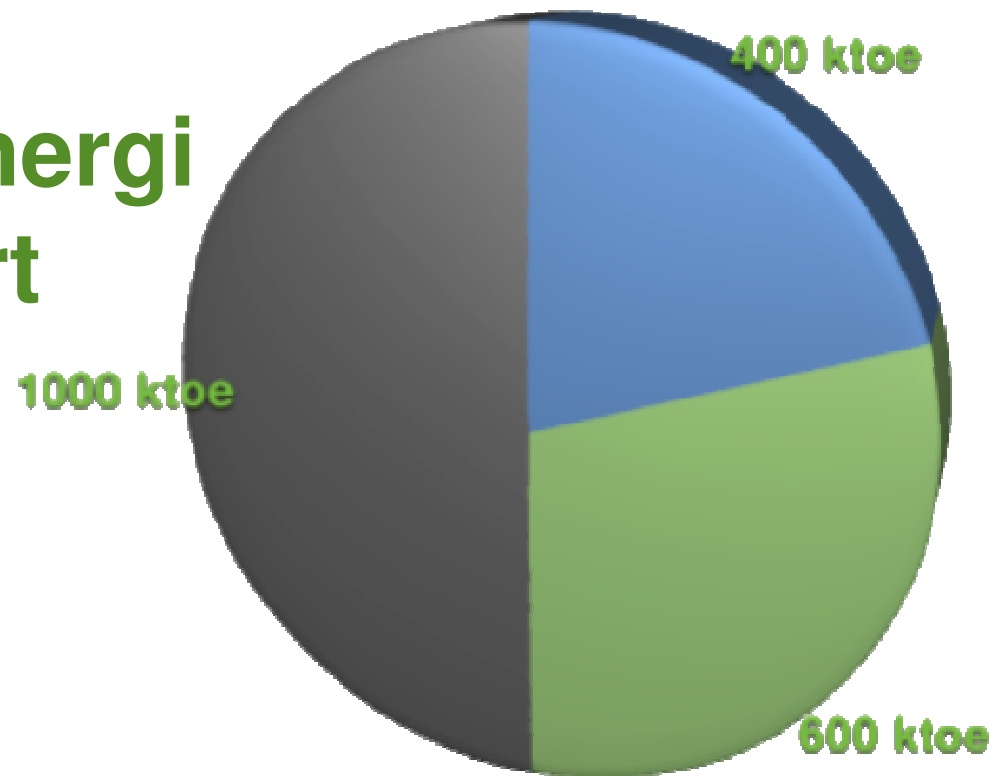


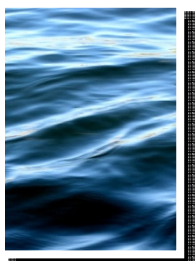
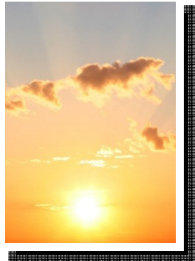
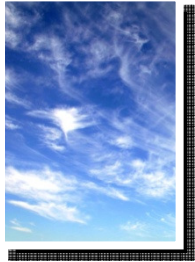
# REPAP



Bioetanol	Biodiesel	Biobränsle
400	600	1000

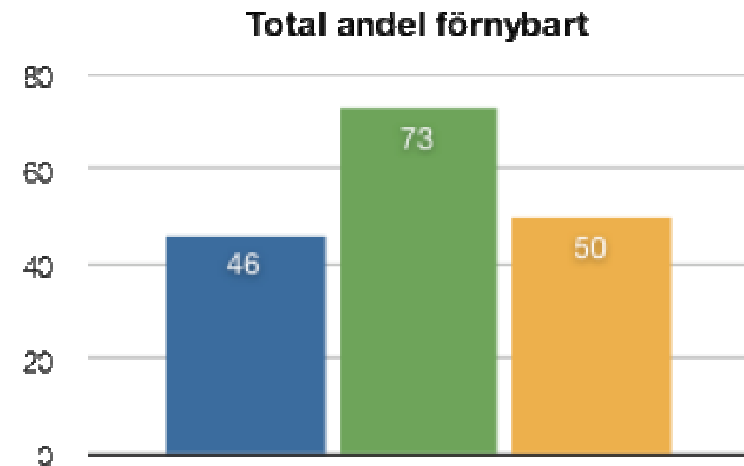
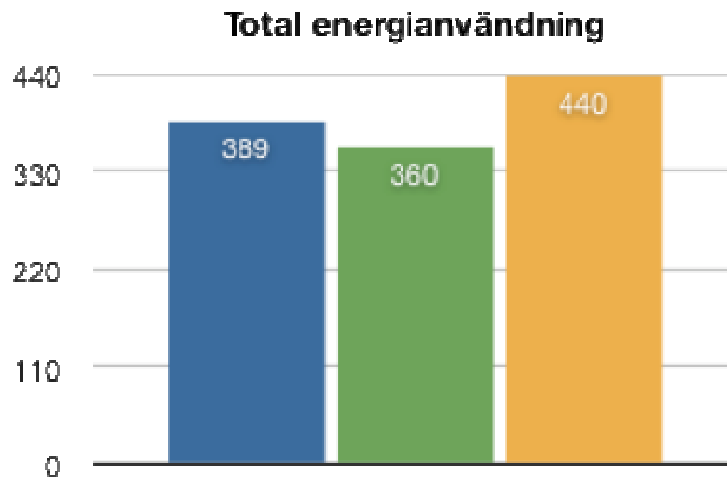
## Förnybar energi för transport





# Jämförelse REPAP och Regeringen

■ 2009 ■ REPAP 2020 ■ Regeringen 2020



	2009	REPAP 2020	Regeringen 2020
Total energi-användning	389	360	440
Bioenergi	116	158	140
- bioel	11	16,7	20
- biodriv-medel	4,6	25	9
Vattenkraft	68	73	68
Vindkraft	2,5	20	12,5
Solel	0	4	0,006
Total andel förnybart	46,3	73	50

# REPAP

## Så här når vi målen 2020

- Elcertifikaten ska kompletteras med inmatningstariffer för sol, havsbaserad vind m.m
- Vita certifikat för energieffektivisering bör införas, samt trappstegsavgifter för elintensiv industri
- Biobränsle bör få skattereduktion så dessa alternativ blir billigare än fossilt bränsle
- Investeringsstöd för förnybar energi
- Energideklarationer används som styrmedel

# REPAP

Läs mer på

[www.sero-repap.se](http://www.sero-repap.se)