

**WATER USE EFFICIENCY
EXPERTS MEETING
5 November 2008**

**Water Use Efficiency in Syria
(National Report Presentation)
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PNUE



plan
bleu

Drinking Water

Efficiency ($E_{pot} = V1 / V2$ in %)		
Year	Value	Source
1995	55.8%	Calculated from available statistics
2000	61.8%	
2005	60.2%	
2010	68.0%	Prospects
2015	80.0%	Set target
2020	85.0%	Prospects
2025	88.0%	
2030	90.0%	

- Total volume produced and distributed $V2$ (km³/year)

1995	0.609
2030	1.484
- Population growth ($\approx 2.4\%$)
- Coverage expansion: target 2010; 99% urban 93% rural
Target 2025: full coverage
- To reduce physical + admin. losses (2006-2010) to 22% (urban) & 27% (rural)
- 2015+: loss red. driven by; incr. pressures on resources (population growth)
incr. scarcity of resources; depletion – pollution – lower renewable (climate change)



Irrigation Water

Efficiency (E _{irr} = E ₁ x E ₂ in %)		
Year	Value	Source
1995	38.7%	Calculated from available statistics
2000	41.0%	
2005	44.7%	
2010	52.5%	Prospects
2015	64.0%	
2020	66.8%	
2025	69.0%	
2030	70.1%	

- Total vol. for irrigation V4:

1995	13.992 km ³ /y
2005 (peak)	18.565 =
2030	13.260 =
- Now on: limited horizontal expansion in irrigated areas:

1995	1.089 m ha
2005	1.426 =
2025+	1.600 =
- Limited savings upstream of plots (V4-V3): ≈ 0.7 km³/y in 2030 compared to 1995
- Major savings due to ongoing/planned conversion to modern irrigation modes:

1995	negligible
2005	17% (spr+loc)
2025+	91% =



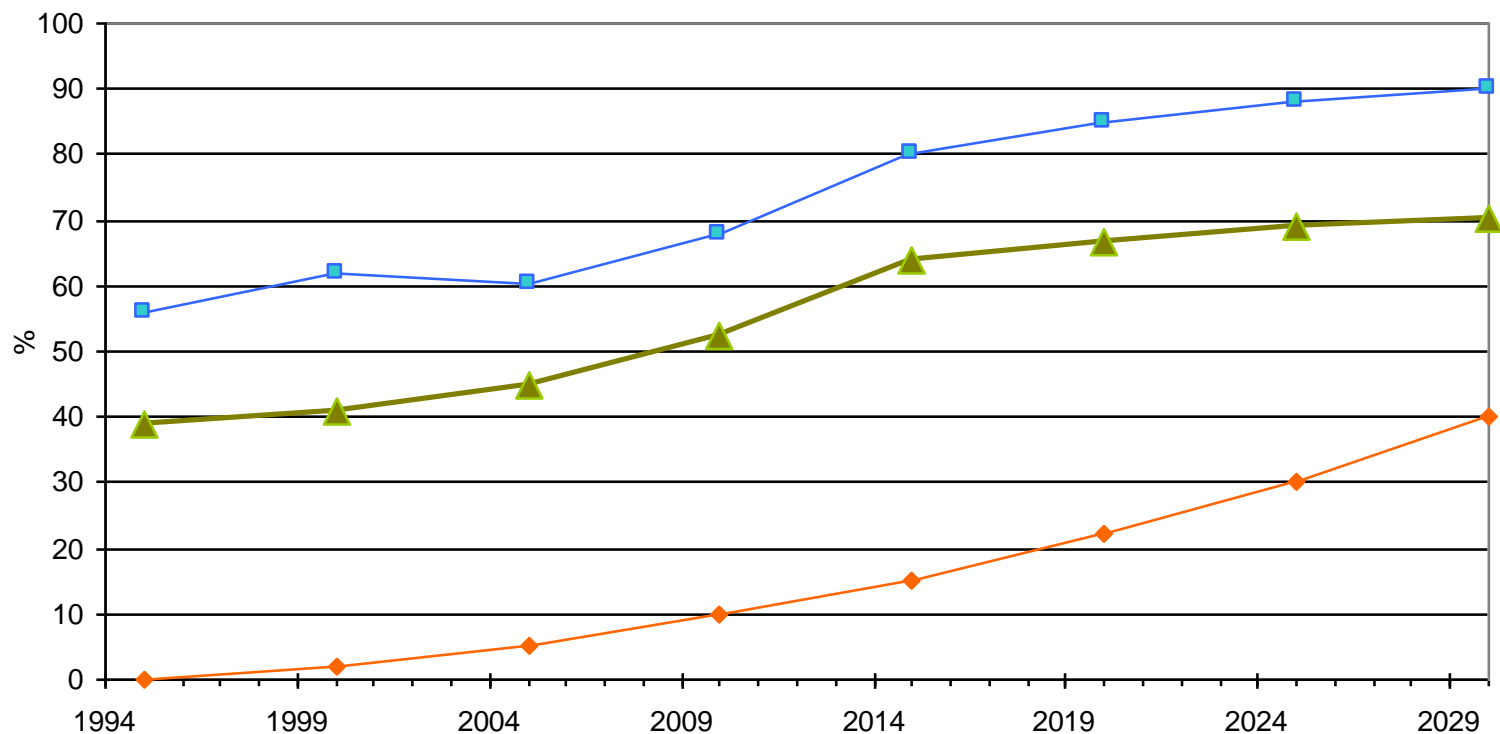
Industrial Water

Efficiency (Eind = V5 / V6 in %)		
Year	Value	Source
1995	≈Zero	Very rough estimations
2000	2%	
2005	5%	
2010	10%	Very rough expectations
2015	15%	
2020	22%	
2025	30%	
2030	40%	

- Gross vol. consumed for industrial processes V6:
1995 0.285 km³/y
2030 0.575 =
- Low control on industrial water sourcing, particularly from public water bodies (rivers, grounwater ... etc)
- anticipated gradual increasing control, by installations and public authorities, in response to increasing concerns on water saving issues at both industry/economic and legislative/regulatory levels



Water Use Efficiency (Sectoral)



Drinking Water

Irrigation Water

Industrial Water



Water Use Efficiency (Total)

