

# RES targets: 25% & 29.47%

## Projections and RES targets

**Table 1 Expected gross final energy consumption of Kosovo in heating and cooling, electricity and transport up to 2020 taking into account the effect of energy efficiency and energy saving measures 2010-2020 (ktoe)**

	2009	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
	base year	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency
heating and cooling	48 6.4 8		497 .36		550 .36		526 .04	564 .13	547 .70	584 .92	562 .43	609 .18	580 .17	631 .25	595 .52	649 .39	606 .90	672 .05	622 .27	694 .78	637 .41	718 .65	653 .32
electricity	45 5.2 3		470 .97		528 .16		533 .07	557 .78	541 .53	590 .82	568 .10	616 .19	586 .84	634 .81	598 .88	658 .19	615 .13	677 .90	627 .69	729 .17	668 .96	751 .37	683 .06
transportas per Article 3(4)	32 7.3 5		304 .67		313 .32		311 .58	328 .75	319 .17	340 .58	327 .48	352 .45	335 .66	362 .76	342 .23	369 .17	345 .02	379 .36	351 .26	389 .50	357 .34	399 .65	363 .32
gross final energy consumption	13 01. 1		130 0.6 5		142 6.1 2		140 7.1 1	1,4 62. 78	142 0.1 7	154 0.6 8	148 1.4 2	159 9.5 4	152 3.3 7	165 1.0 8	155 7.6 3	170 4.1 9	159 2.7 0	175 8.1 8	162 7.9 5	184 4.2 0	169 1.9 3	190 2.8 1	172 9.8 2

(Auxiliary table for calculation - only with EE scenario data)

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	base year	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency
heating and cooling	486.48	497.36	550.36	526.04	547.70	564.03	580.17	595.52	606.90	622.27	637.41	653.32
electricity	455.23	470.97	528.16	533.07	541.53	568.10	586.84	598.88	615.13	627.69	668.96	683.06
transportas per Article 3(4)	327.35	304.67	313.32	311.58	319.17	327.48	335.66	342.23	345.02	351.26	357.34	363.32
gross final energy consumption	1301.1	1300.65	1426.12	1407.11	1,420.17	1,481.42	1,523.37	1,557.63	1,592.70	1,627.95	1,691.93	<b>1,729.82</b>

**Table 2 National overall target for the share of energy from renewable sources in gross final consumption of energy in 2009 and 2020**

A. Share of energy from renewable sources in gross final consumption of energy in 2009 (S 2009) (%)	18.90	18.90
B. Target of energy from renewable sources in gross final consumption of energy in 2020 (S 2020) (%)	<b>25.00</b>	<b>29.47</b>
C. Expected total adjusted energy consumption in 2020 (from Table 1, last cell) (ktoe)	1,729.82	1,729.82
D. Expected amount of energy from renewable sources corresponding to the 2020 target (calculated as B x C) (ktoe)	<b>432.46</b>	<b>509.70</b>

**Table 3 National 2020 target and estimated trajectory of energy from renewable sources in heating and cooling, electricity and transport (%)**

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
RES - H&C	48.37%	47.64%	44.07%	46.45%	45.22%	44.91%	44.77%	44.84%	45.24%	45.37%	45.53%	45.65%

RES - E	2.26% 2.26%	2.85% 2.85%	1.71% 1.71%	2.16% 2.16%	2.12% 2.12%	5.13% 7.34%	5.62% 13.78%	6.58% 15.00%	13.20% 21.60%	14.42% 23.18%	14.10% 23.39%	14.33%* 25.64%**
RES - T	0.03%	0.02%	0.04%	0.00%	0.00%	1.00%	2.00%	3.00%	4.00%	6.00%	8.00%	10.00%
Overall RES share	18.90% 18.90%	19.26% 19.26%	17.65% 17.65%	18.18% 18.18%	18.25% 18.25%	19.29% 20.14%	19.66% 22.80%	20.33% 23.57%	23.20% 26.45%	24.20% 27.58%	24.42% 28.09%	25.00%* 29.47%**
<i>Of which from cooperation mechanisms</i>												
<i>Surplus for cooperation mechanisms</i>												
As Part B of Annex I to the Directive												
			2011-2012	2013-2014	2015-2016	2017-2018						2020
			S2009 +20%(S2020-S2009)	S2009 +30%(S2020-S2009)	S2009 +45%(S2020-S2009)	S2009 +65%(S2020-S2009)						
RES minimum trajectory (%)				20.12	20.73	21.65	22.87					25
RES minimum trajectory (ktoe)				348.04	358.59	374.42	395.52					432.46

**Table 4a Calculation table for the renewable energy contribution of each sector to final energy consumption (ktoe)**

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
(A) Expected gross final consumption of RES for heating and cooling	235.30	236.96	242.56	244.34	247.68	253.32	259.74	267.06	274.55	282.32	290.21	298.24
(B) Expected gross final consumption of electricity from RES	10.30 10.30	13.42 13.42	9.02 9.02	11.53 11.53	11.49 11.49	29.12 41.72	32.99 80.84	39.41 89.82	81.17 132.84	90.49 145.51	94.36 156.45	97.89* 175.13**
(C) Expected final consumption of energy from RES in transport	0.10	0.07	0.13	0.00	0.00	3.27	6.71	10.27	13.80	21.08	28.59	36.33
(D) Expected total RES consumption	245.70 245.70	250.45 250.45	251.71 251.71	255.87 255.87	259.17 259.17	285.71 298.32	299.44 347.29	316.73 367.14	369.52 421.19	393.88 448.91	413.16 475.25	432.46* 509.70**
(E) Expected transfer of RES to other Member States	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(F) Expected transfer of RES from other Member States and 3rd countries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(G) Expected RES consumption adjusted	245.70 245.70	250.45 250.45	251.71 251.71	255.87 255.87	259.17 259.17	285.71 298.32	299.44 347.29	316.73 367.14	369.52 421.19	393.88 448.91	413.16 475.25	432.46*



	39.00	44.80	72.80	74.20	15.70	83.10	63.50	73.20	12.20	07.60	98.60	01.50
--	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

<b>RES-H&amp;C [ktoe]</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
Solar	0.60	0.61	0.63	0.64	1.29	1.93	3.22	5.16	7.09	9.03	10.96	12.90
Biomass	234.70	236.35	241.93	243.70	246.39	251.37	256.45	261.64	266.94	272.52	278.22	284.05
Geothermal (heat pumps)						0.01	0.06	0.26	0.52	0.77	1.03	1.29
<b>Total RES-H&amp;C</b>	<b>235.30</b>	<b>236.96</b>	<b>242.56</b>	<b>244.34</b>	<b>247.68</b>	<b>253.32</b>	<b>259.74</b>	<b>267.06</b>	<b>274.55</b>	<b>282.32</b>	<b>290.21</b>	<b>298.24</b>

### RES – E

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	base year	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency	additional energy efficiency
heating and cooling	486.48	497.36	550.36	526.04	547.69	562.42	580.16	595.51	606.90	622.26	637.41	653.32
electricity	455.23	470.97	528.16	533.07	541.53	568.09	586.84	598.88	615.13	627.68	668.95	683.06
transportas per Article 3(4)	327.35	304.67	313.32	311.58	319.17	327.48	335.66	342.22	345.02	351.25	357.33	363.32
gross final energy consumption	1301.1	1300.65	1426.12	1407.11	1,420.17	1,481.42	1,523.37	1,557.63	1,592.70	1,627.95	1,691.93	1,729.82

<b>RES-E [MW]</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
Solar						1.00	1.00	2.00	2.00	4.00	4.00	5.00*) 10.00**)
Biomass solid						1.00	1.00	2.00	2.00	4.00	4.00	5.00*) 14.00**)
Wind		1.35	1.35	1.35	1.35	31.35	31.35	41.35	51.35	62.15	62.15	62.15*) 150.00**)
Hydropwer - existing	42.07	45.83	46.68	45.83	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21
Hydropwer-new						30.00	40.00	50.00	65.00	80.00	90.00	97.00*) 240.00**)
Hydropwer- Zhur									305.00	305.00	305.00	305.00





(J) Expected RES contribution to transport for RES-T target: $(C)+(2,5-1)*(H)+(2-1)*(I)$ (ktoe)	0.10	0.07	0.13	0.00	0.00	3.27	6.71	10.27	13.80	21.08	28.59	36.33
---	------	------	------	------	------	------	------	-------	-------	-------	-------	-------

**Table 3 - part for RES-T**

RES share in transport	0.03 %	0.02%	0.04%	0.00%	0.00%	1.00%	2.00%	3.00%	4.00%	6.00%	8.00%	10.00 %
------------------------	-----------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	------------

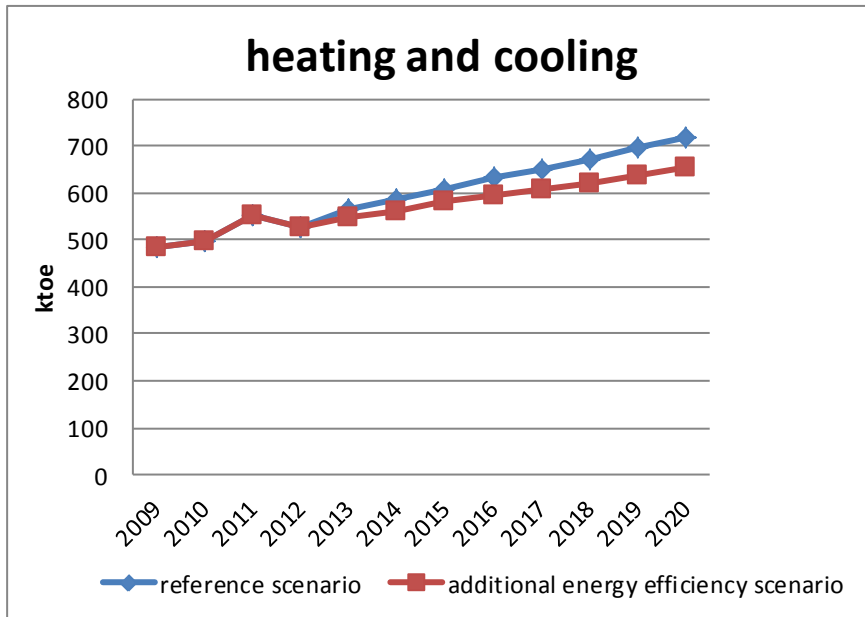


## Diagrams

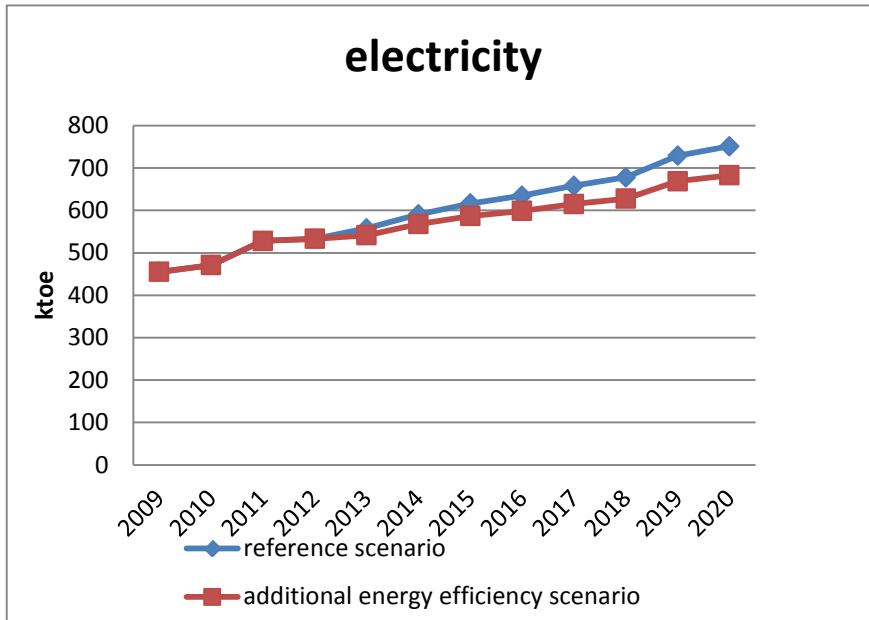
**Table 1 Expected gross final energy consumption of Kosovo in heating and cooling, electricity and transport up to 2020 taking into account the effect of energy efficiency and energy saving measures 2010-2020 (ktoe)**

	2009	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
	base year	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency	reference scenario	additional energy efficiency
heating and cooling	486.48		497.36		550.36		526.04	564.13	547.70	584.92	562.43	609.18	580.17	631.25	595.52	649.39	606.90	672.05	622.27	694.78	637.41	718.65	653.32
electricity	455.23		470.97		528.16		533.07	557.78	541.53	590.82	568.10	616.19	586.84	634.81	598.88	658.19	615.13	677.90	627.69	729.17	668.96	751.37	683.06
transportas per Article 3(4)	327.35		304.67		313.32		311.58	328.75	319.17	340.58	327.48	352.45	335.66	362.76	342.23	369.17	345.02	379.36	351.26	389.50	357.34	399.65	363.32
gross final energy consumption	1301.1		1300.65		1426.12		1407.11	1,462.78	1420.17	1540.68	1481.42	1599.54	1523.37	1651.08	1557.63	1704.19	1592.70	1758.18	1627.95	1844.20	1691.93	1902.81	1729.82

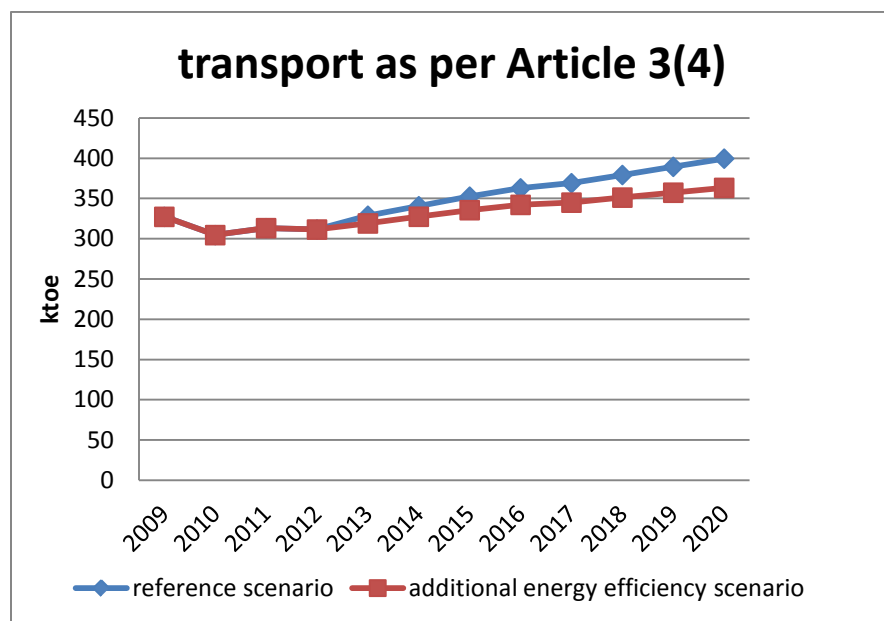
<b>heating and cooling</b>	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<i>reference scenario</i>	486.48	497.36	550.36	526.04	564.13	584.92	609.18	631.25	649.39	672.05	694.78	718.65
<i>additional energy efficiency scenario</i>	486.48	497.36	550.36	526.04	547.70	562.43	580.17	595.52	606.90	622.27	637.41	653.32



<b>electricity</b>	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<i>reference scenario</i>	455.23	470.97	528.16	533.07	557.78	590.82	616.19	634.81	658.19	677.9	729.17	751.37
<i>additional energy efficiency scenario</i>	455.23	470.97	528.16	533.07	541.53	568.1	586.84	598.88	615.13	627.69	668.96	683.06



<b>transport as per Article 3(4)</b>	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
reference scenario	327.35	304.67	313.32	311.58	328.75	340.58	352.45	362.76	369.17	379.36	389.5	399.65
additional energy efficiency scenario	327.35	304.67	313.32	311.58	319.17	327.48	335.66	342.23	345.02	351.26	357.34	363.32



<b>gross final energy consumption</b>	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<i>reference scenario</i>	1301.1	1300.6	1426.1	1407.1	1462.7	1540.6	1599.5	1651.0	1704.1	1758.1	1844.2	1902.8
<i>additional energy efficiency scenario</i>	1301.1	1300.6	1426.1	1407.1	1420.1	1481.4	1523.3	1557.6	1592.7	1627.9	1691.9	1729.8

