



**SCREENING CHAPTER 28
CONSUMER AND HEALTH PROTECTION**

**THE LIMITATION OF EXPOSURE OF THE GENERAL
PUBLIC TO ELECTROMAGNETIC FIELDS**

**Country Session: The Republic of TURKEY
6-7 July 2006**



LEGAL BASIS

- **LAW NO:2813 ON RADIOCOMMUNICATION (OG No:18011, 7 April 1983)**
- **LAW NO:2872 ON ENVIRONMENT (OG No: 18132, 11 August 1983)
*AS AMENDED BY LAW NO: 5491 (OG No: 26167, 13 May 2006)***
- **BY-LAW ON DETERMINATION, MEASUREMENT METHODS AND SUPERVISION OF THE LIMIT VALUES OF ELECTROMAGNETIC FIELD FORCE FROM FIXED TELECOMMUNICATION DEVICES OPERATING WITHIN THE FREQUENCY RANGE OF 10 KHZ– 60 GHZ (OG No: 24460, 12 July 2001)**
- **COMMUNIQUE REGARDING THE IMPLEMENTATION OF THE BY-LAW (OG No: 24518, 09 September 2001)**



COMPETENT AUTHORITY

**TELECOMMUNICATIONS AUTHORITY
(10 kHz-60 GHz)**



OBJECTIVE OF THE BY-LAW:

- To ensure healthy and safe environment for people in the neighbourhoods of fixed telecommunication devices and systems
- To determine the principles concerning the places of establishment, installation and supervision of fixed telecommunication devices emitting electromagnetic wave
- To limit values of the accepted electromagnetic field force for eliminating probable negative effects on environment and human health in case of involuntary and continuous exposure to electromagnetic field



- To determine the measurement methods and organisations
- To define the principles and procedures for fixed telecommunication devices not in compliance with the limit values.
- To determine sanctions applicable to the operator/administrator when these limit values are violated.

(During the drafting of the By-Law, ICNIRP, WHO, Council Recommendation No:1999/519/EC, FCC, Implementations in Europe were considered)



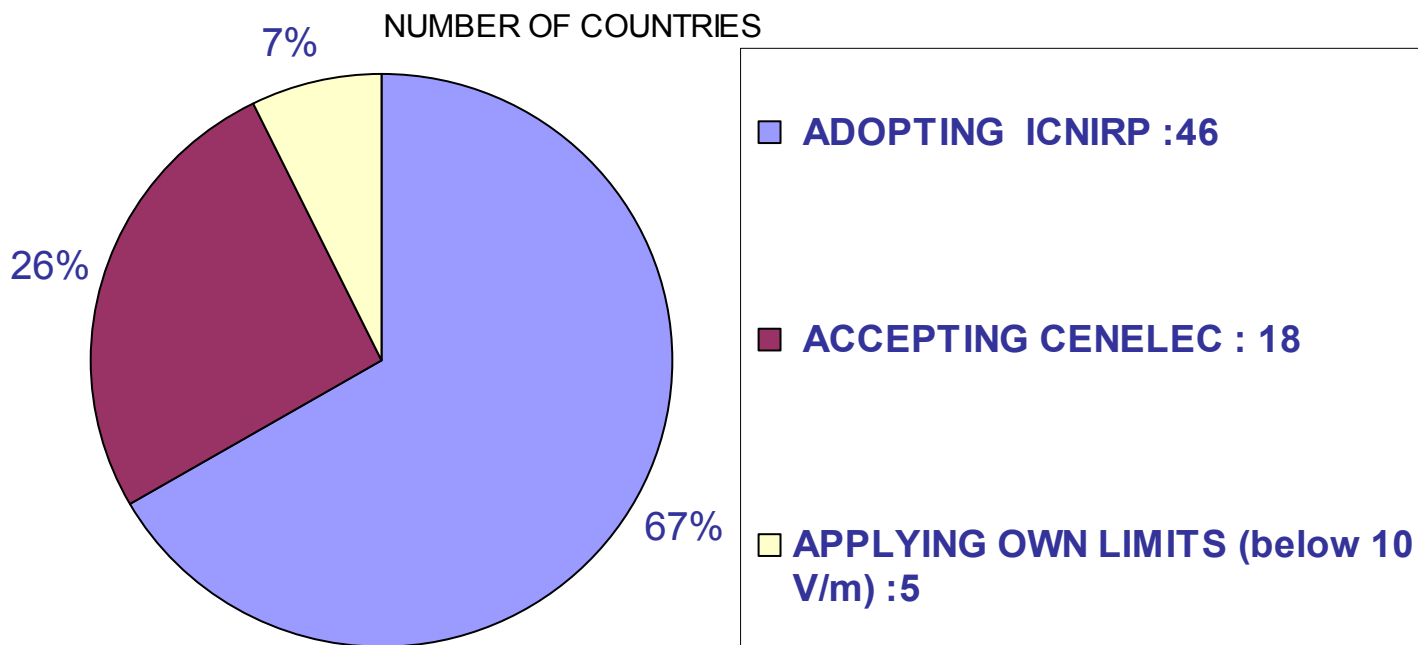
SAFETY CERTIFICATE:

- is given to each telecommunication devices
- is determined using limit values stated in the By-Law and Safety Distance Calculations.
- two stage system applies:
 - temporary approval by the Authority
 - final approval following technical measurement and control of the Authority



COOPERATION:

- Protocol between Telecommunications Authority and Ministry of Environment and Forestry:
 - Assessment of environmental factors prior to the establishment of fixed telecommunication devices and systems.
 - Opinion of provincial environmental board while choosing a place for establishment of these devices and systems.



Although Turkey has adopted ICNIRP limit values for the area, specific limits are applied per device (1/4 of ICNIRP). Therefore, Turkey applies limits below 10 V/m.



CONSUMER AND HEALTH PROTECTION
AGENDA ITEM VI: Mental Health, Socio-economic determinants of health – health inequalities, Alcohol, Cancer & Health & Environment



Limit Values

Frequency Range (MHz)	E-field Force (V / m)		H – field force (A / m)		B–Flux density (μT)		Wave Power Density Of Equivalent Platform (W/m^2)	
	Limit Value per device	Total Limit value of the area	Limit Value per device	Total Limit value of the area	Limit Value per device	Total Limit value of the area	Limit Value per device	Total Limit value of the area
0.010 – 0.15	22	87	1.3	5	1.5	6.25	-	-
0.15 – 1	22	87	0.18 / f	0.73 / f	0.23 / f	0.92 / f	-	-
1 – 10	22 / $f^{1/2}$	87 / $f^{1/2}$	0.18 / f	0.73 / f	0.23 / f	0.92 / f	-	-
10 – 400	7	28	0.02	0.073	0.023	0.092	0.125	2
400 – 2000	0,341. $f^{1/2}$	1.375 $f^{1/2}$	0.0009 $f^{1/2}$	0.0037 $f^{1/2}$	0.001 $f^{1/2}$	0.0046 $f^{1/2}$	f / 3200	f / 200
2000-60000	15	61	0.04	0.16	0.05	0.2	0.625	10



LAW ON ENVIRONMENT (Additional Article 8)

Procedures and principles on prevention of negative effects of electromagnetic areas caused from non-ionising radiation emission environment and human health are determined through By-Law which shall be published by the Ministry of Environment and Forestry after having opinions of relevant institutions.

(The preparation of this By-Law still continues.)””



THANK YOU FOR YOUR ATTENTION