

Annex 1 Comparison of EC Law and EM Program among countries

No.	Item	Japan	Korea	China	Turkey
1	Energy conservation law	Energy conservation law	Rational Energy utilization Act	Energy law in 1998 Energy conservation law in 2007	Regulation in 1995, Energy efficiency law in 2007
1.1	Eneacted	22/6/1979	10/1979	1/1/1998	1995
	Revised date	30/5/2008	29/2/2008	28/10/2007	18/4/2007
2	Designated energy management enterprise				
2.1	Energy consumption in enterprise (factory and building)	Type 1 enterprise: 3,000 kL/y or more Type 2 enterprise: 1,500 kL/y or more Building: floor area: 2,000m ² or more	Energy Management- Required user (EMRU): 1,000 toe/y or more of fuel, or 4,000,000 kWh/y of electricity	Factory: 10,000 toc/y or more, and 5,000 – 10,000 toc/y specified by local government	Factory: 2,000 toe/y or more, Building: 500 toe/y or more with floor area of 20,000m ² or more
2.2	Number of designated factory	Type 1 enterprise: 7,457 Type 2 enterprise: 6,094	Special EMRU: 200 companies, whose energy consumption shears 50% in industry sector.	Highly energy intensive factories: 1,000	
2.3	Nominated number of energy manager	Type 1 enterprise: 1 to 4 persons Type 2 enterprise: 1 person	1 person	1 person	1 person
2.4	Duty of designated factory	(1) Nomination of energy manager (2) Annual report submission (3) Medium- and long-term plan submission	(1) Nomination of energy manager (2) Annual report submission (3) Medium-term plan submission (4) Acceptance of energy audit by Energy audit organization every 3 years or more (5) Energy intensity management	(1) Nomination of energy manager (2) Annual report submission (3) Medium-term plan submission	(1) Nomination of energy manager (2) Annual report submission (3) Acceptance of on-site survey by Ministry (4) establishment of energy management unit in factory of 50,000 toe/y or more
3	Qualification of Energy Manager				
3.1	Classification of license	(1) Person for energy management (2) Energy management officer	Energy Manager	Energy manager	Energy manager
3.2	Competence	(1) Person for energy management: - examination and work experience of 1 year - training course and examination for 7 days with work experience of 3 years (2) Energy management officer: - training course for 1 day	(1) Energy management engineer (2) Energy manager: training course for 1 day by KEMCO	(1) Middle- and high- class engineer who graduate university with work experience. (2) Energy manager system by sub-sector is planned with examination.	Trainig course with practice lesson by Ministry for 10 days with graduate of university

Annex 1 Comparison

No.	Item	Thailand	India	Indonesia	Vietnam
1	Energy conservation law	Energy conservation promotion law	Energy Conservation Act 2001	Act on Energy, Decree on Energy Conservation	Law on Energy Efficiency and Conservation
1.1	Eneacted	1992	1/10/2001	10/8/2007 Act	1/7/2010
	Revised date	10/2002		12/2009 Decree 70	
2	Designated enterprise				
2.1	Energy consumption in enterprise (factory and building)	Enterprise: 1,000 kW or more in contract demand power, or 1,175 kVA or more in equipment capacity	Factory: 500 kW or more in equipment capacity, or 600 kVA or more in contract demand power, in 15 sub-sectors	Factory: 6,000 toe/y or more in fuel, heat, and electricity	Specified by Decree
2.2	Number of designated factory			Factory: 760	
2.3	Nominated number of energy manager	1 person	1 person	1 person	1 person
2.4	Duty of designated factory	(1) Nomination of energy manager (PRE) (2) Annual report submission (3) Acceptance of energy audit by Energy auditor (RC), or conduct of energy audit by energy manager (S-PRE)	(1) Nomination of energy manager (2) Annual report submission (3) Acceptance of energy audit by Energy auditor	(1) Nomination of energy manager (2) Annual report submission (3) Energy conservation program planning (4) Acceptance of energy audit by in-house Energy Auditor or Energy audit organization periodically	(1) Nomination of energy manager (2) Annual and 5-year report submission (3) Annual and 5-year plan submission (4) Acceptance of energy audit by in-house Energy Auditor or Energy audit organization every 3 years
3	Qualification of				
3.1	Classification of license	(1) PRE (2) Senior PRE from 2005	1) Energy Manager 2) Energy Auditor	1) Energy Manager 2) Energy Auditor	1) Energy Manager 2) Energy Auditor
3.2	Competence	(1) S-PRE: – training course and examination for 7 days with graduate university (2) PRE: – training course for 1 day with graduate college and work experience of 3 years, or – Graduate university	Energy manager: examination with graduate university Energy auditor: examination with graduate university Qualified number: Energy manager: 713 persons, Energy auditor: 2,033 persons	1) Energy Manager: Practice training certificate 2) Energy Auditor: Practice training certificate	(1) Energy Manager: College degree + Training certificate (2) Energy Auditor: not stipulated in the Act