

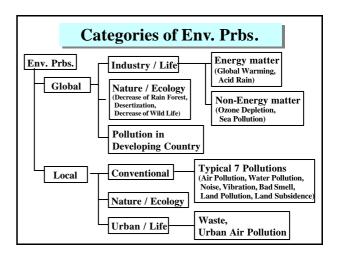
Points of the Lecture

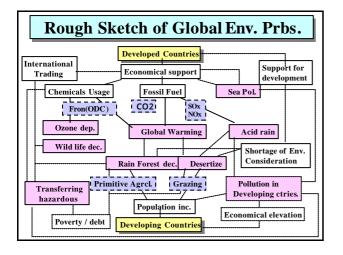
1. What is (the Essentials of)

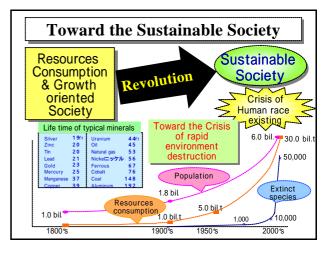
the Environmental Problems ?
Complication in Environmental Problems
Variety or countermeasures

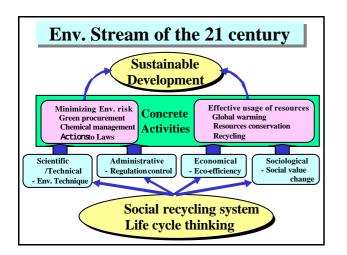
- 2. Necessity for Environmental Management in company
 - (1) What is a company?
 - (2) What is management?
 - (3) What is Environmental activities in company?

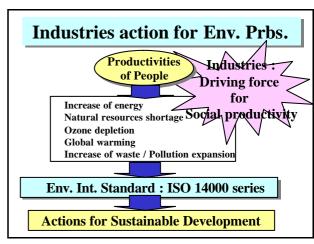
1.What is (the essentials of) the Environmental Problems ?

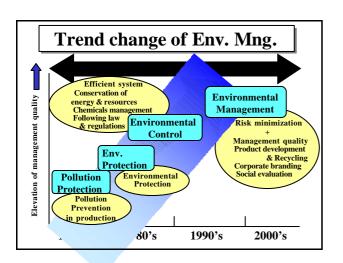


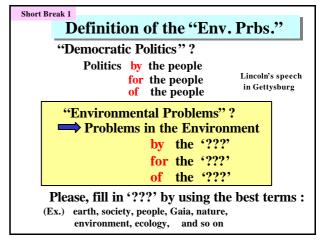


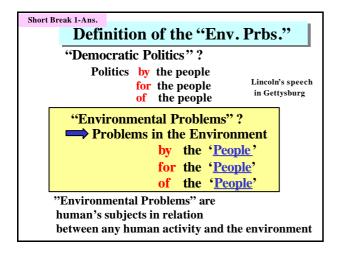


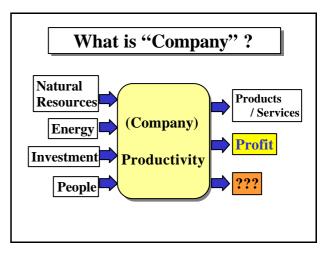


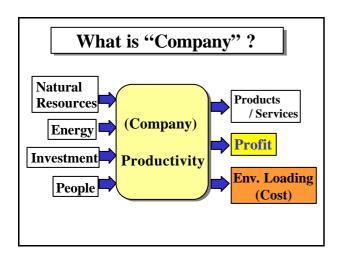


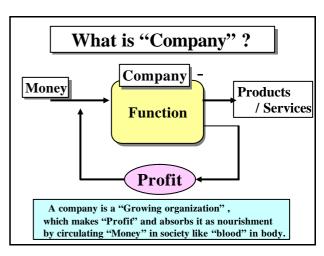


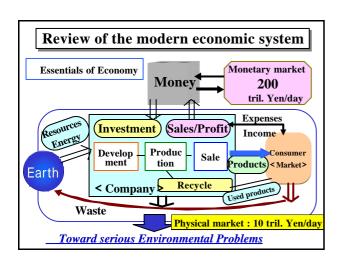


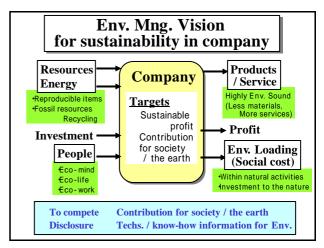


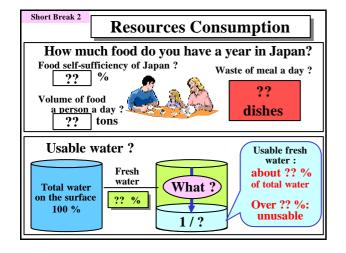


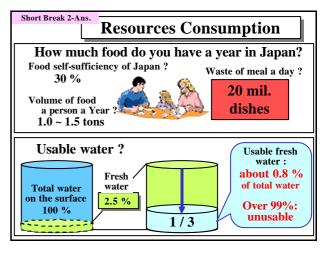




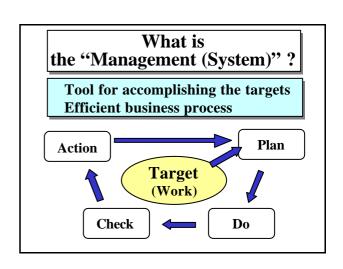


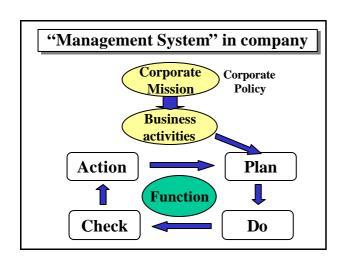


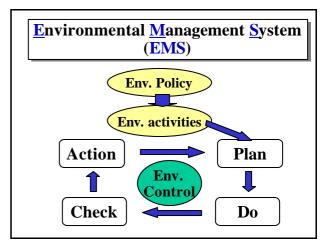


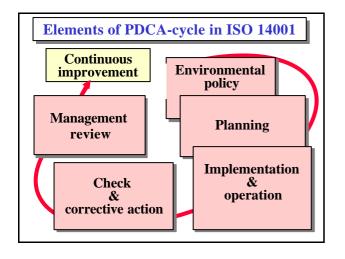


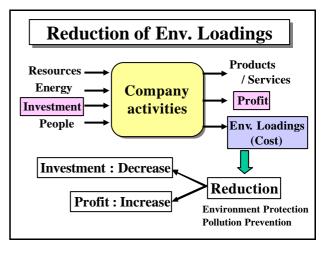
2. Necessity for
Environmental Management
in company

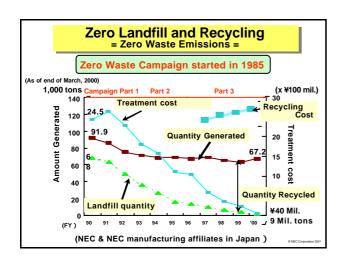


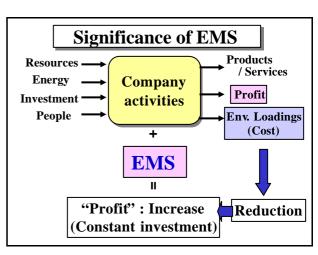












Physical sense of the amount of "money"

1, 2, 3, ...:
If you count a number per one second,
How long (time) for counting 100 mil.
??? Unit?

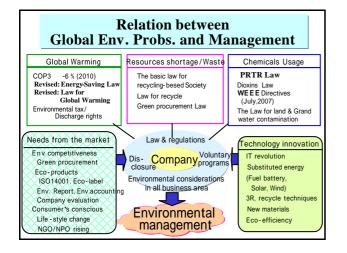
Japanese GDP recently? ??? Tril. Yen
If you stack 10 thousand bills for GDP,
What is the height? ??? Unit?

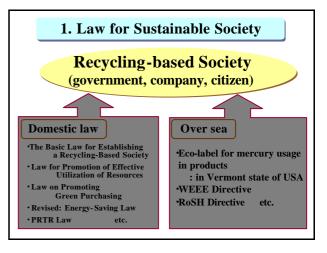
Physical sense of the amount of "money"

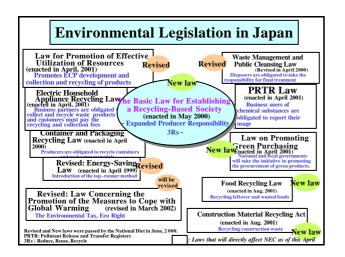
1, 2, 3, ...:
If you count a number per one second,
How long (time) for counting 100 mil.

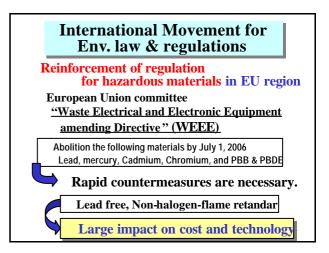
3 Years

Japanese GDP recently? 500 Tril. Yen
If you stack 10 thousand bills for GDP,
What is the height? 50 km









The Basic Law for Establishing a Recycling-Based Society

Goal: To build the Recycling-Based Society

Abstract:

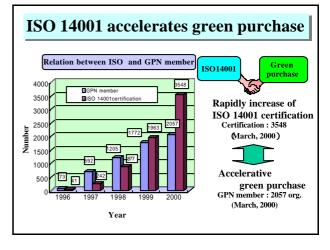
To make clear the responsibility of government, local government, nation and manufacture.

- 1) Manufacture's responsibility: Classification and Recycling of waste
- 2) Extended Producer's Responsibility (EPR): Management for used products
- 3) Implementation of 3R (prioritization of 3R)

Reduce Reuse Recycle

Green Procurement Law (enacted in April 2001) Outline: 1) National Government promotes to procure ESPs and disclose the its results Local Government makes efforts to procure ESPs Producers provide useful information for customers' purchasing ESPs 4) Scope: 101 products, 14 product categories National and Local Governments shall consider "environmental aspect" in selecting products. •Impact to NEC: 2) Providing Useful Information is a Must. NEC's products subject to the law: 317 products, 10 products categories Examples) PCs, Servers, FDs, FAX, Printers, multi-purpose machines, fluorescent light tubes, lighting equipments, paper for office machines Copyright NEC Corporation 200





Global Warming Impact (Estimation)

* IPCC:International Panel for Climate Change

2-times of the previously estimated

temperature increment (100 years later)

1.0 ~ 3.5 **➡** 1.4 ~ 5.8 (IPCC-Report : Dec, 2000)

Abnormal weather & disaster expansion (2035)

Abnormal weather & disaster expansion (2035)
Shortage of water, Sea surface rise, Flood, Iceberg melting,
Crisis of food shortage, Frequency of typhoon, etc.

Average temperature in Tokyo area:

2.9 up in the last 100 years (1.8 up in last 10 years)

Estimation of sea surface rise (Japan)

•Temp. increase: +1.0 ~ 2.5 by 2030 •Sea surface rise: 0.5 m

> Vanished coast area: 82 % Vanished assets: 49 tril. Yen



Revised: Law Concerning the Promotion of the Measures to Cope with Global Warming

Leagal force for -6% of 1900 level

Two new committees

in the Central Environmental Council "The committee for the domestic system"

- Environmental tax, trading of discharge rights "The committee for the goal scenario"

- Introduction of new technologies and its effects

Env. tax or discharge right

CO2 is the cost

 $(3,000 \sim 10,000 \text{ Yen / ton})$

3. Env. Mng. is one of IR matters

Environmental activities

Actively disclosing

To maintain transparency & reliability

Environmental report Disclosure through the internet Publicity, Promotion Risk management

Evaluation of company

Activated Social evaluating for companies

~ Typical social rating for NEC of 2002 ~

	Assessor	NEC's Rank	Rank (2001)
Env. Mng. Level	Nikkei Newspaper	3/703	10(2001)
Env. Branding rank	"	5/703	4 (2001)
Env. Branding survey	Nikkei BP		
	Consumers	32/559	12 (2001)
	Business-men	16/559	18 (2001)
Env. Rating	Tohmatsu Evaluation and Certification Organization	А	
Sustainability Index	Switzerland: Sam research	58 %	Industry average 38%
Social investment research	UK : Morley fund mng	C3*	
Corporate responsibility	Germany Oekom research	C+ 3/8	

C 3*) C:Average for sustainable business
3:Average of Environmental policy, activities



We have something to do for the Earth

参考資料

環境マネジメントに関する 国際標準規格 Б014001シリーズ ~ 概要 ~

環境 ISO制定の歴史

92年 : 英国の環境管理システム規格 (BS7750)発行

管理システムの国際規格化を提唱

国連環境会議 地球サミット」 WBCSDが 特続可能な開発」

93年 : BOにTC207を設置

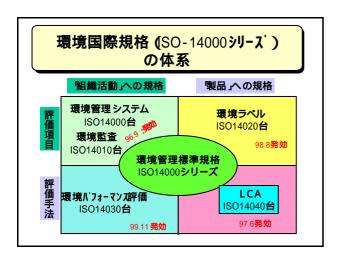
欧州規則「EMAS 孫効

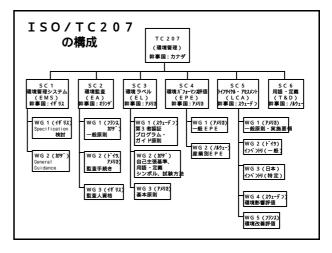
95年 : 日本において認証登録が開始される

96年 : БО14001, 14010発行

(JISQ14001, 14010)

EMAS :Eco- Management and Audit Scheme _{(E}U理事会規則 環境管理 <u>監査スキーA」)</u> WBSCD 世界環境経済人協議会 TC207 技術委員会207





ISO/TC207の作業分野と 規格化時期

S C番号	SC (分科会)名称	幹事国	規格化時期
SC1	環境管理 システム (EMS) ISO 14000番台	イギリス	1996年9月
SC2	環境監査 (EA) ISO 14010番台	オランダ	1996年10月
SC3	環境ラベル(EL) ISO 14020番台	オーストラリア	1998 年 8 月
SC4	環境パーフォマンス (EPE) ISO 14030番台	アメリカ	1999年11月
SC5	ライフサイクルアナリシス (LCA) ISO 14040番台	フランス	1997 年 6 月
SC6	用語と定義 (T&D)	ノルウェー	1998年5月

