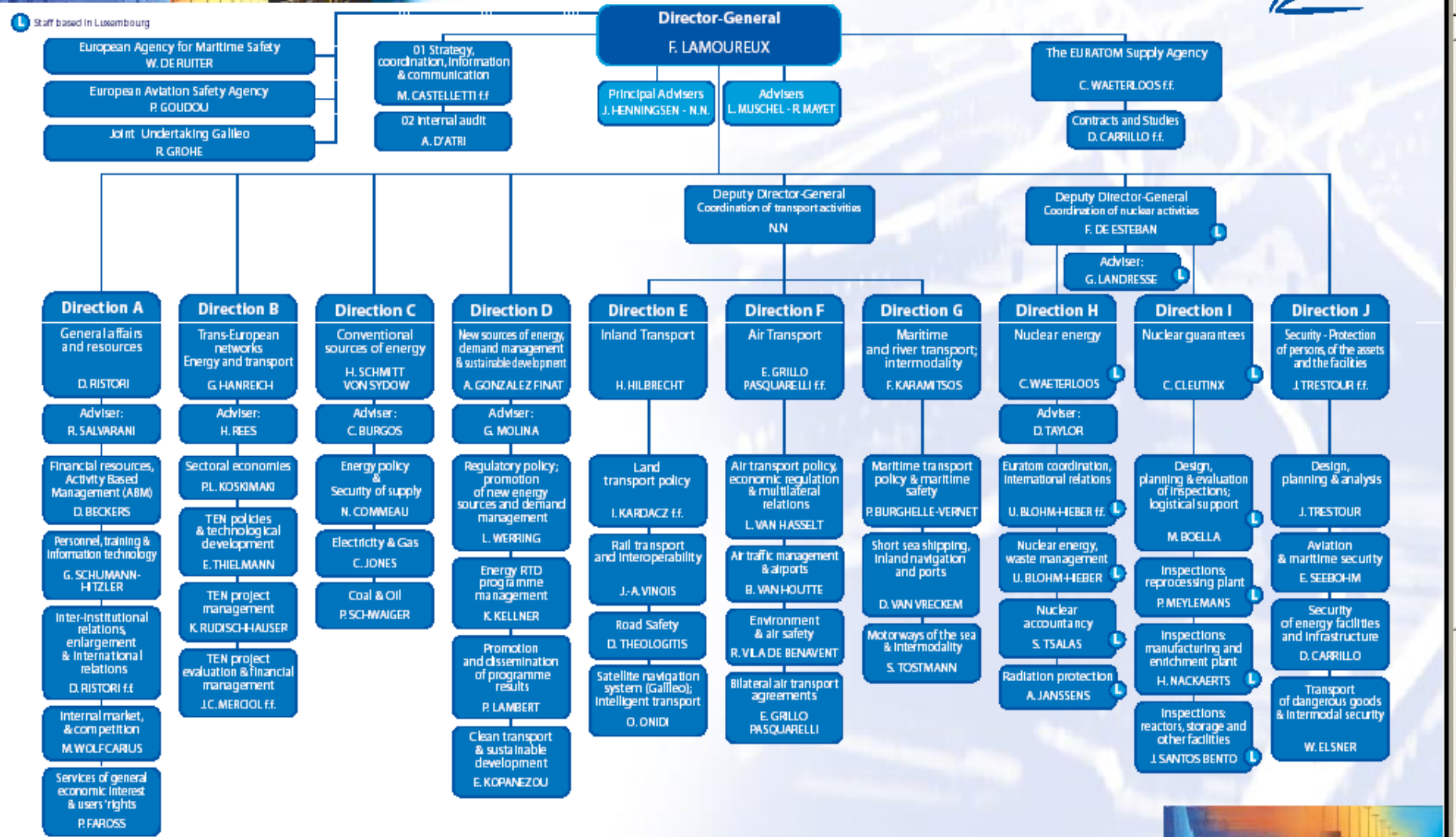




The EC Directive on Energy End-Use Efficiency and Energy Services

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Overview

- **RES & RUE Directives**
- **Proposal for a Directive on energy end-use efficiency and energy services**
- **Intelligent Energy – Europe (EIE)**

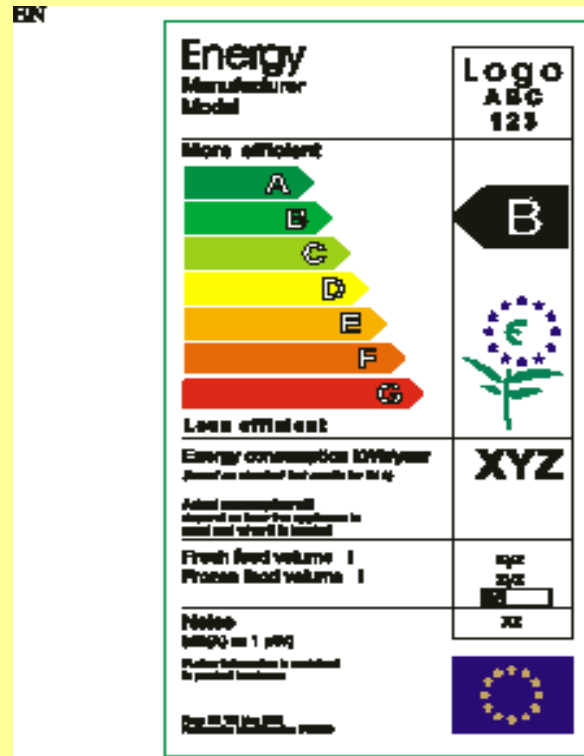


RES & RUE Directives



Energy Labelling Directives

N°	Appliance	Implementation
94/2	Electric Refrigerators & Freezers	1995
95/12	Washing Machines	1996
95/13	Tumble Dryers	1996
96/60	Washer-Dryers	1997
97/17	Dishwashers	1999
98/11	Lamps	1999
00/31	Air-conditioners	2003
00/40	Electric Ovens	2003





Minimum Efficiency Directives

N°	Appliance	Implementation
92/2	Central Heating Boilers	1997
96/57	Electric Refrigerators and Freezers	1999
00/13	Ballasts (Fluorescent Lamps)	2002



RES & RUE – new directives

Directives	Proposed by Com.	Adopted by Council	Published in OJ	Transpo- sition date
Directive on Electricity from Renewables	31.05. 2000	27.09. 2001	27.10. 2001	27.10. 2003
Directive on Energy Performance of Buildings	11.05. 2001	25.11. 2002	04.01. 2003	04.01. 2006
Directive on Promotion of the Use of Biofuels	27.11. 2001	08.05. 2003	17.05. 2003	31.12 2004
Directive on Promotion of Cogeneration Based on Useful Heat Demand	22.07. 2002	27.01. 2004	21.02. 2004	21.02. 2006



RES & RUE – directives in pipeline

Directive proposals	Proposed by Com.	Adopted by Council	Published in OJ	Transposition date
Proposal for a Directive on Eco-design for Energy-using Products	01.08. 2003	1 reading ongoing		
Proposal for a Directive on Energy end-use Efficiency and Energy Services	10.12. 2003	1 reading ongoing		
Planned Directive on the promotion of low energy & emission road transport vehicles	Summer 2004?			
Planned Framework Directive on Labelling	Winter 2005?			



Other relevant directives

- **Energy market directives on electricity and gas**
 - ◆ **Implementation in MS no later than 1 July 2004 and legal unbundling from July 2007**
- **The Energy Tax Directive**
 - ◆ **Minimum tax levels from 1 January 2004 (last chance to comply by 1 January 2007)**
- **The Emission Trading Directive**
 - ◆ **Emissions trading in the enlarged EU will start on 1 January 2005.**
- **The Linkage Directive**
 - ◆ **Will allow European companies to count credits from emission reduction projects around the world (JI&CDM)**



Proposal for a Directive on energy end-use efficiency and energy services



Background

- ◆ **Cutting greenhouse gas emissions to 8% below 1990 levels by 2008-2012 (ECCP 2000)**
- ◆ **Security of supply - action needed to curb escalating oil demand within the EC**
- ◆ **A large energy savings potential remains in all end-use sectors (around 20%)**
- ◆ **Demand-side efficiency promotion and harmonisation are not fully addressed in Internal Market Directives**
- ◆ **The need for an umbrella for existing and proposed energy efficiency Directives (e.g. EPBD, EDEUP, CHP).**



Objectives

- **To promote cost-effective energy efficiency using targets, mechanisms, incentives and institutional, financial and legal frameworks to remove market barriers and imperfections.**
- **To develop a market for energy services and for the delivery of energy efficiency programmes and other measures to end users**



Scope

- **All major energy suppliers (distributors and/or retailers) of:**
 - ◆ electricity and gas,
 - ◆ heating oil, district heating and cooling,
 - ◆ coal and lignite,
 - ◆ transport fuels,
 - ◆ forestry and agricultural energy products and waste

(MS may exclude small companies)
- **End-use sectors include:**
 - ◆ domestic, agricultural, public and tertiary sector
 - ◆ non-energy intensive industries
 - ◆ transport (excl. aviation and foreign shipping)



Legal base in Treaty

- **Legal base for the proposed Directive is Art. 175 (1) Environmental Protection.**
- **The Directive will also promote the harmonisation and completion of the internal market for energy by developing the market for energy efficiency.**



Content 1/9

- **1 % annual overall target for each MS (Article 4):**
 - **cumulative 2006 to 2012, maximum of 6 years**
 - **Council prefers indicative targets**
- **the target is fixed (using a 5 year average) - independent of GDP and trends in energy use**
 - **impact of measures from 1991 may be included**
- **appointment of independent public sector bodies to oversee framework for reaching targets**
 - **these bodies/agencies already exist in the MS**



Content 2/9

- **1,5 % annual public sector target (Article 5):**
 - to increase the demand for EE products and energy services through public procurement
 - the same calculation methodology and conditions as the overall target
 - the public sector to lead the way
 - EE procurement saves money in the longer run (TPF & EPC reduces burden)
 - definition on public sector to be provided



Content 3/9

- **Obligation for energy distribution and/or retail energy sales companies (Article 6):**
 - to ensure the active offering and promotion of energy services to customers
 - concerns (only) electricity, gas, district heating and heating oil
 - this article may be subject to amendments (to be more in line with the energy market directives).
 - relevant information about end-use customers to be provided to the appointed body



Content 4/9

- **Qualification, certification and accreditation of energy service providers (Article 8):**
 - requires MS to ensure technical competence of energy service providers and mutual recognition
 - **could be done by branch organisations**
- **Financial instruments (Article 9):**
 - requires removal of legislation that restrict TPF, EPC and similar financial instruments
 - provides for the availability for model contracts



Content 5/9

- **Tariffs and regulations for net-bound energy (Article 10):**
 - **requires regulating authorities of monopoly segments of distribution networks to ensure that tariffs do not encourage increased volume,**
 - **allows distribution companies to recover costs by inclusion in their tariffs, *if appropriate and reasonable and if fair and equal competition can be ensured.***



Content 6/9

- **Provision for Member State's funds and financing mechanisms (Article 11):**
 - allows promoting funds if open to all qualified providers of energy efficiency measures, should target higher transaction cost segments
 - such funds already exist in some countries
- **Energy audits (Article 12):**
 - requires Member States to ensure the wide availability of independent audit schemes



Content 7/9

- **Metering and informative billing of energy consumption (Article 13):**
 - requires Member States to ensure accurate metering of net-bound energy, reflecting time of use and actual consumption,
 - requires to ensure frequent and informative billing, + information on normalised use, environmental impacts and contact information.
 - builds on art. in the internal market directives
 - informative & accurate billing could save 5-8%



Content 8/9

- **Reporting (Article 14):**
 - sets reporting requirements for Member States not later than 2 years after adoption of the Directive and every 3 years thereafter up to 2012
 - means less reporting than under the old SAVE-directive
- **Transposition (Article 16):**
 - transposition by Member States of this Directive into national laws and provisions by June 2006



Content 9/9

- **Annexes gives examples of eligible measures and describe measuring methods**
 - allows for effects of information, energy advise, improved building codes, tax changes, if measurable
 - **simplified methodology to be introduced in the annexes – top-down / bottom-up to be combined**
 - **workshops about measurement issues to be organised in Copenhagen and Brussels.**



Ongoing activities

- **The proposal for the Directive is a part of a wider energy package**
- **Working Documents from the European Parliament & First reading in Council (Progress Report in June)**
- **Rapporteur in EP/ITRE: Mechtild Rothe (D)**
- **First reading in Parliament & Political Agreement in Council expected in November 2004?**
- **Final adoption – summer 2005 (Lux or UK?)**



Intelligent Energy - Europe



Intelligent Energy - Europe

The financial framework for EU-25 is €250 million for the period of 2003-2006

By field of action:



Rational use of energy and demand management



New and renewable energies and diversification of energy production



Energy aspects of transport



International promotion of renewable energy sources and energy efficiency

Note: an additional budget is foreseen from from EEA-countries + RO & BU

Total in million €

Total
90
100
42
17.6
250

Vertical Key Actions (VKA)

SAVE	ALTENER	STEER	COOPENER
<ul style="list-style-type: none"> ▪ Multiplying success in buildings ▪ Retrofitting of social houses ▪ Innovative approaches in industry ▪ Energy Efficient Equipment and Products 	<ul style="list-style-type: none"> ▪ RES-Electricity ▪ RES-Heat ▪ Small Scale RES Applications ▪ Alternative vehicle propulsion 	<ul style="list-style-type: none"> ▪ Alternative vehicle propulsion ▪ Policy measures for an efficient use of energy in transport ▪ Strengthening the knowledge of local management agencies in the transport field 	<ul style="list-style-type: none"> ▪ Energy policies, legislation and market conditions for enabling poverty alleviation in developing countries* ▪ Strengthening local energy expertise in developing countries* <p>* Focus 2003: Sub-Saharan Africa</p>

Horizontal Key Actions (HKA)

Sustainable Energy Communities

Think globally, act locally

Financing mechanisms & Incentives

Monitoring & Evaluation

Dissemination & Promotion



Further information

- **EIE programme website:**
http://europa.eu.int/comm/energy/intelligent/index_en.html
- **IntellEbase, the project database**
<http://europa.eu.int/comm/energy/iebase/>
- **ManagEnergy website:**
www.managenergy.net
- Tren-intelligentenergy@cec.eu.int **for requests per e-mail**
- **Next EIE call: Sept/Oct 2004**



TELEMETER

- **Title:** Remote Metering of electricity provision of information to customers on energy consumption based on individual circumstances
- **Coordinator:** Universidade de Coimbra
- **Objective:** To overcome the lack of information between customers and utility on daily, monthly and weekly electricity consumption data and their load curves.
- **End date:** 28/03/2003
- <http://www.telemeter-project.com/>



EURECO

- **Title:** DSM: End-use metering campaign in 400 households of the European Community
- **Coordinator:** ENERTECH
- **Objective:** To check how much electricity that could be saved in households and to calculate potential savings that can be achieved by substituting existing appliances with more efficient appliances.
- **End date:** 20/04/2001
- <http://perso.club-internet.fr/sidler/page22.html>



SAVE-project

- **Title:** Improved strategies for better environmental quality and energy efficiency in a changing electricity market
- **Coordinator:** SINTEF Energy Research;
- **Objective:** To identify strategic platforms and present results from pilot case studies showing how to implement better environmental quality and energy efficiency in a restructured power market.
- **End date:** 31/03/2001



Conclusion

- Few past projects on demand response and intelligent metering
- Probably some new projects from EIE 2003 call
- But certainly room for more EIE- projects e.g.:
 - ◆ Future improvements of EC Directives
 - ◆ Development of power markets
 - ◆ Cost barriers of intelligent metering
 - ◆ "Lock in" of customers in liberalised markets



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Register



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- Energy Agencies
- Local Government
- Case Studies
- Legislation
- Programmes & Funds
- Partner Search
- Events
- Virtual Facilities
- Links

Latest News

Intelligent Energy - Europe (EIE) - 2nd Information Day
Chat Added 17/3/2004

Directive on the Promotion of Cogeneration
Approved 11/02/04

NEW Good Practice Case Studies Added
Added 6/02/04

30 most popular pages on ManagEnergy
Updated 12/02/04

ManagEnergy Newsletter
January 2004

Forthcoming Events

Training Workshop on Review of Energy Agencies and International Conference on Integrating the Local Energy Plan
18-19 March 2004

European Conference of Municipal Energy Managers
1-2 July 04

[View More Events...](#)

Video Recordings

The Buildings Directive - opportunities at a local level



Sixth Framework Programme (FP6)

EIE

Intelligent Energy - Europe



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OPET Network