

ENGLISH SUMMARY OF CONTENTS

WWW.AICVF.ORG

A new web site for AICVF

> by Roger Cornette, Internet Delegate

Statisticians of all horizons! Come numerous to visit the new www.aicvf.org site and do not hesitate to send us your observations. p 12

PROFESSION

Individualization of heating expenditures: sociological aspects

> By Christophe Beslay, sociologist, University of Toulouse-le-Mirail, René Cyssau, consultant, and Marie-Hélène Huzé, COS

From a sociological point of view, the postulate of the control of energy demand by the individualization of heating expenses supposes that the device is able of modifying the practices of the users in heating matters. p 14

Modelling of the transfers

of pollutants and prediction of the exposures

> by F. Allard and P. Blondeau, LEPTIAB, University of la Rochelle

THE AICVF has published in September the Recommendation "Quality of internal air and Ventilation". The QIAV being a complex domain, and the numerous interfering phenomena, it seems sensible to continue to bring fundamental elements on the subject. It is the case with this works extract, presented during the seminar M3E in May, 2008 (IUT of Bourg-en-Bresse /University of Lyon 2). p 22

DOSSIER PHOTOVOLTAICS

Co-ordinated by Marie-Laure Falque-Masset

> The photovoltaic sector: ready to grow! By Wail Elamine, Syndicate of Renewable energies (SER)

Today, France is taking particularly strong commitments in development of the renewable energies with the Grenelle of the environment: 20 Mtep of renewable energies in 2020, and the will to build from 2020 positive energy buildings. In this new framework, the French photovoltaic sector arranges all the assets to spread. p 25

> The market of photovoltaic in France, in Europe and all over the world. By EPIA, European photovoltaic industry association

On the occasion of the symposium "Towards the development of the photovoltaic sector in France" organised by EPIA, the European Photovoltaic Industry Association, together with the French actors of the sector in Aix les Bains (Savoie, France), professionals propose concrete solutions to allow France to really launch its market, in a similar way to its neighbouring countries of Germany or Spain. p 28

> For a quantitative and qualitative development of the sector. By Christian Méric, SUNWISE

After a long time in the wilderness, the photovoltaic which, on the French market was centered on the supply in electricity of remote areas and other punctual professional applications becomes fashionable further to the decision of the government today in 2002 to legislate on the purchase of the electricity produced by photovoltaic generators connected to the grid. p 32

> Value its building patrimony thanks to the photovoltaics. By Fabrice Juquois, PHOTEIS

To settle photovoltaic solar panels and to sell its own electricity production to EDF is henceforth in the reach of all those who have the time and the means to be interested in it will you say to me? No more now? Henceforth, any owner of land tax or individual building, local authorities can hope to welcome a photovoltaic power plant. But don't forget to ask for the help of a photovoltaic developer. p 36

> The photovoltaic, a key element of positive energy buildings. By Thierry Guiot, Céline Mehl, Jean-Christophe Visier, CSTB

Generalize positive energy buildings by 2020: if the objective appears as very ambitious, it is above all necessary to read it as a historic chance for the sector. The Positive Energy Building (BEPOS) will be the rule. It is outlined a radical change of way of thinking. p 39

> The integration of the photovoltaic: true strategy or false good idea? By Marc Jedliczka, Hespul

By deciding to introduce in July, 2006 a "bonus in the integration" of 0,25 €/kWh in the price rate of purchase of the photovoltaic electricity, and more still by giving it a very high relative value with regard to the 0,30 €/kWh basis price rate (become since 0,32 by means of the indexation), France showed originality. p 42

> An electric substation reconverted in the photovoltaics. By Michel Cossavella & Jean-Louis Galéa, CSTB

The SAGI, SEM whose City of Paris is actively involved, dashed into the conversion in hotel of activity of the former substation of the Parisian Company of Electricity supply, street Raymond Losserand in Paris. Protecting the historic nature of the building, the architect Emmanuel Saadi was used to prolong its vocation of origin by thinning out of photovoltaic cells on the quasi-totality of the glazed surfaces. p 44

> The photovoltaic solar districts: what conditions of success? By Bruno Gaidon, Hespul

A photovoltaic system allows to improve the environmental balance of a building by producing, on-site, renewable energy. The generalization of the photovoltaic systems on all the buildings of a

district, a city or a country, as a supplement to reduction measures of thermal and electric needs of buildings, can so allow minimize considerably the direct and indirect environmental impact of the built. p 46

DOSSIER II - EVOLUTION OF CONDENSING BOILERS

Co-ordinated by Jack Bossard and Michel Bourdier

> Condensing boilers using fossil fuels: Statutory considerations. By Bernard Asfaux

Condensing boilers with gas and fuel occupy in Europe a dominating place; for certain countries (Netherlands) for several years and for the others it is about a relatively recent evolution of the market (France). p 48

> The condensing boiler: an answer to the low consumption buildings. By Brice Febvre, GDF SUEZ

Showing a high level of performance, the condensing boiler with natural gas resents all the ranges of power for the heating and the production of sanitary hot water today. It constitutes, for the residential and tertiary buildings, one of the major technological answers to mastered cost, to realize from today Low Consumption Buildings. p 51

> Condensation: inescapable !
By Gilles Walterspieler, Viessmann

In the framework of the increase in prices of hydrocarbons, the strategies of of the finishing work actors, and particularly those of the heating sector, aim at developing products working with energies of substitution. It is a question so, right now, of saving at most the fuel oil and gas stocks. The condensation is from this point of view a succeeded and henceforth inescapable technique, facilitated by the 2005 thermal legislation. p 54

> An innovation, the fuel condensing boiler.

By Claude Tarze, Chappée

The modulation represents an important technological jump, with the launch on the market of the first modulating fuel condensing boiler with the integrated " Modul' oil " burner. The burner is based on a totally innovative technology in the field of fuel domestic burners: the high pressure pump and the jet are replaced by a volumetric pump and an atomizer. p 57

LEGISLATION

- > Use of rain waters, well or drilling
- > Helps to the discriminated persons
- > Regulated prices for gas and electricity
- > Detached houses heated with electricity
- > Certificates of energy savings
- > Energy Performance of renewed buildings p 62

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DOSSIER I Photovoltaïque, les signes de la croissance

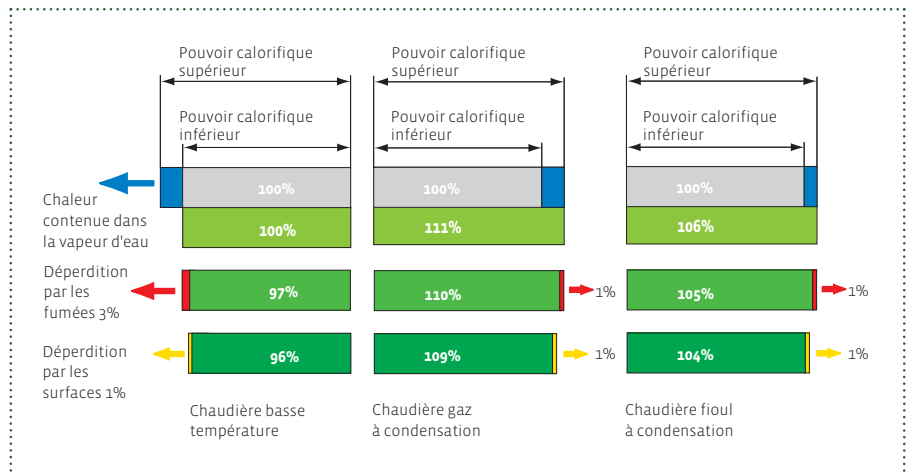
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DOSSIER II Évolution des chaudières à condensation

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à ses adhérents
en page 69

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