

**THE COGENVAD INITIATIVE
TECHNOLOGY AND BUSINESS MODELS FOR A SIMULTANEOUS
DELIVERY OF ENERGY AND IT SERVICES AT THE RESIDENTIAL LEVEL**

by

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Abstract

The **COGENVAD** initiative capitalizes on the many year development efforts of the Daedalus Group of companies, along with those of a group of knowledgeable industrial and academic partners under a UEDP (University / Enterprise Development Partnership) scheme, in order to **provide for standardized methodologies, products and thoroughly researched paths, for applying co-generation at the building-level.**

The open residential space, viewed in terms of its wind and solar energy, represents a serious source of income, which currently escapes, almost completely, all practical reach and serious exploitation. At the same time, the energy business in its current deregulation spiral, is seeking a competitive advantage in offering, next to energy, also other added value services. These can be significantly facilitated and rendered cost efficient by taking advantage of the existing power network cabling. **New and appropriate to the case technology and innovative business models will be however required for jointly and cost efficiently harnessing the wind and solar potential as well as the energy provider networks,** for the eventual practical materialisation of such novel services.

COGENVAD is built on technologies that may offer, at a limited marginal cost, a radical and extensive set of add-on services, of a significant commercial and social impact, together with important savings on the energy bill. **Parts of the solution have already been put in commercial use, whereas two to three more years of R&D are considered necessary for the completion of all architectural elements.**

On the long-term endeavours, COGENVAD may decisively present a new perspective of sustainable growth in complementary and sensitive areas of social concern, such as labour and education, which may be realized via the introduction and rationalization of a universal network (i.e. data and power), as it is currently the case with the existing power-line network. The **latent potential of such a network as a social reformer and true initiator of the home-domain introduction and a major breeder towards establishment of the home-business realm** has been already speculated long ago. However, a truly ratified working ground and a clear implementation approach have not been delineated.