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# Energy Savings from Intelligent Metering and Behavioural Change

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## INTELLIGENT METERING

Backed by estimates suggesting that energy savings of up to 30% could be achieved by combining intelligent metering with behavioural change among occupants, the INTELLIGENT METERING partners in the United Kingdom, Austria, Denmark and Germany set themselves the task of improving the energy consumption of some of their public buildings. The consumption of almost 70 buildings was made available on-line in graphic form in order to give occupants an idea of consumption trends. Via training sessions, the building users were shown the impact of their behaviour which was immediately and visibly demonstrated on their computer screens by the intelligent metering system.

## Results

- Some 70 public sector buildings (offices, schools, sports facilities and community centres) in four European countries had automatic remote monitoring of energy and/or water consumption installed. All participant buildings saw substantial savings, though 30% in some cases proved too optimistic.
- Over 100 training sessions took place with over 600 people trained.
- The participants discovered, however, that the beneficial effects of training wear off after about nine months. A major recommendation is that training be repeated annually.
- A roadmap for intelligent metering usage and training was developed, with case studies also produced for further guidance. Follow the path to energy savings by downloading the information which is available on-line.
- The communities involved continue their efforts in their public buildings, whilst new attempts to replicate success are being made with a further action, aim4smes, oriented towards small and medium sized enterprises.

## Lesson learned

- It has been possible to collect half hourly energy and water consumption data for up to 70 public sector buildings (e.g. offices, schools, sports centres, and community centres) in the 4 European countries in the project
- Initial preparation work has ensured that data from the different intelligent metering data collection systems being used is in the required format to be transferred to computer analysis software and displayed graphically on the project website
- The data is helping with the use of a training package, which has been developed by a professional educator for use with occupants of the buildings using intelligent metering

## Partners and coordinator

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|--|----------------|
| <a href="#">Leicester City Council</a> [1]                               | United Kingdom |
| <a href="#">Energieagentur der Regionen - Waldviertel</a> [2]            | Austria        |
| <a href="#">Sonnenplatz Großschönau GmbH</a> [3]                         | Austria        |
| <a href="#">County of South Jutland</a> [4]                              | Denmark        |
| <a href="#">Esbensen Raadgivende Ingenioerer A/S</a> [5]                 | Denmark        |
| <a href="#">ENERGIE 2000 e.V. Energieagentur im Landkreis Kassel</a> [6] | Germany        |
| <a href="#">IT Power Limited</a> [7]                                     | United Kingdom |

## Contact

Leicester City Council  
United Kingdom

### Contact point

Name: Stewart Conway

E-mail: [stewart.conway@leicester.gov.uk](mailto:stewart.conway@leicester.gov.uk)

Tel: 0044 116 299 5128

Name: Nick Morris

E-mail: [Nick.Morris@leicester.gov.uk](mailto:Nick.Morris@leicester.gov.uk)

Tel: +44 116 299 5123

## Budget

Overall budget: 858.814,00 € (EU contribution: 50,00 %)

## Key documents

- [Intelligent Metering: How is it done?](#) [8]  
PDF 1.92 MB 

## In brief

Sector: Buildings

Duration: 01/01/2005 to 31/12/2006

Contract number: EISAV/EIE/04/107/2004

Website: <http://www.intelmeter.com>

## Tags:

building

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- [\[ESAM \[35\]\]](#) Energy Strategic Asset Management in Social Housing Operators in Europe
- [\[E-TOOL \[36\]\]](#) Energy-toolset for improving the energy performance of existing buildings
- [\[EDUCATE \[37\]\]](#) Environmental Design in University Curricula and Architectural Training in...
- [\[EPBD CA III \[38\]\]](#) EPBD Concerted Action III (2011-2015)
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- [[GREENBUILDING](#) [44]] GREENBUILDING
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- [[IMPACT](#) [47]] IMProving energy Performance Assessments and Certification schemes by Tests
- [[ISEES](#) [48]] Improving the Social Dialogue for Energy Efficient Social Housing
- [[ILETE](#) [49]] Initiative for Low Energy Training in Europe
- [[INOFIN](#) [50]] Innovative Financing of Social Housing Refurbishment in Enlarged Europe
- [[CENSE](#) [51]] Leading the CEN standards on energy performance of buildings to practice....
- [[GREENBUILDINGPLUS](#) [52]] Leveraging the GreenBuilding Programme (GBP) to promote energy-efficiency...
- [[LCC-DATA](#) [53]] Life-Cycle-Cost in the Planning Process. Constructing Energy Efficient...
- [[ENERGY TROPHY+](#) [54]] Magnify success: Extension of the European Energy Trophy competition to 18...
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- [[ZEBRA2020](#) [57]] Nearly Zero-Energy Building Strategy 2020
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- [[NZB2021](#) [59]] NZB2021 'Doors Open Days' – sharing experiences from low energy buildings...
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- [[RE-CO](#) [65]] Re-Commissioning – Raising Energy Performance in Existing Non-Residential...
- [[REPUBLIC\\_ZEB](#) [66]] Refurbishment of the Public building stock towards nZEB
- [[REQUEST2ACTION](#) [67]] Removing barriers to low carbon retrofit by improving access to data and...
- [[RESHAPE](#) [68]] Retrofitting Social Housing and Active Preparation for EPBD
- [[SAVE@WORK4HOMES](#) [69]] SAVE@Work4Homes - Supporting European Housing Tenants in Optimising...
- [[STABLE](#) [70]] Securing The Take-off of Building Energy Certification: Improving Market...
- [[KEEPCOOL](#) [71]] Service Buildings Keep Cool: Promotion of "sustainable cooling"...
- [[SMART-E BUILDINGS](#) [72]] Smart-e buildings - yes we canEnable the building sector to contribute to...
- [[SHARE](#) [73]] Social Housing Action to Reduce Energy Consumption
- [[STEP-2-SPORT](#) [74]] STEP-by-STEP renovation towards nearly zero energy SPORT buildings
- [[SAVE AGE](#) [75]] Strengthening Energy Efficiency Awareness Among Residential Homes for...
- [[SENTRO](#) [76]] Sustainable Energy systems in New buildings- market inTROduction of...
- [[SURE-FIT](#) [77]] Sustainable Roof Extension Retrofit for High-Rise Social Housing in Europe
- [[TACKOBST](#) [78]] Tackling Obstacles in Social Housing
- [[THERMCO](#) [79]] Thermal comfort in buildings with low-energy cooling
- [[E-RETROFIT-KIT](#) [80]] Tool-Kit for "Passive House Retrofit"
- [[BUILDING EQ](#) [81]] Tools and methods for linking EPDB and continuous commissioning
- [[TOWARDS CLASS A](#) [82]] Towards Class A - Municipal Buildings as Shining Examples
- [[TREES](#) [83]] Training for Renovated Energy Efficient Social housing

- [\[REE\\_TROFIT \[84\]\]](#) Training on Renewable Energy solutions and energy Efficiency in...
- [\[KEEP COOL II \[85\]\]](#) Transforming the market from "cooling" to "sustainable..."
- [\[TABULA \[86\]\]](#) Typology Approach for Building Stock Energy Assessment
- [\[USE EFFICIENCY \[87\]\]](#) Universities and Students for Energy Efficiency

**Source URL:** <https://ec.europa.eu/energy/intelligent/projects/en/projects/intelligent-metering>

## Links

- [1] <https://ec.europa.eu/energy/intelligent/projects/en/partners/leicester-city-council>
- [2] <https://ec.europa.eu/energy/intelligent/projects/en/partners/energieagentur-der-regionen-waldviertel>
- [3] <https://ec.europa.eu/energy/intelligent/projects/en/partners/sonnenplatz-grossschonau-gmbh>
- [4] <https://ec.europa.eu/energy/intelligent/projects/en/partners/county-south-jutland>
- [5] <https://ec.europa.eu/energy/intelligent/projects/en/partners/esbensen-raadgivende-ingenioerer>
- [6] <https://ec.europa.eu/energy/intelligent/projects/en/partners/energie-2000-ev-energieagentur-im-landkreis-kassel>
- [7] <https://ec.europa.eu/energy/intelligent/projects/en/partners/it-power-limited>
- [8] [https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/intelligent\\_metering\\_intelligent\\_metering\\_how\\_is\\_it\\_done\\_en.pdf](https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/intelligent_metering_intelligent_metering_how_is_it_done_en.pdf)
- [9] <https://ec.europa.eu/energy/intelligent/projects/en/projects/eplabel>
- [10] <https://ec.europa.eu/energy/intelligent/projects/en/projects/avash>
- [11] <https://ec.europa.eu/energy/intelligent/projects/en/projects/enper-exist>
- [12] <https://ec.europa.eu/energy/intelligent/projects/en/projects/asiepi>
- [13] <https://ec.europa.eu/energy/intelligent/projects/en/projects/bestfacade>
- [14] <https://ec.europa.eu/energy/intelligent/projects/en/projects/building-advent>
- [15] <https://ec.europa.eu/energy/intelligent/projects/en/projects/ceph>
- [16] <https://ec.europa.eu/energy/intelligent/projects/en/projects/check-it-out>
- [17] <https://ec.europa.eu/energy/intelligent/projects/en/projects/datamine>
- [18] <https://ec.europa.eu/energy/intelligent/projects/en/projects/commoncense>
- [19] <https://ec.europa.eu/energy/intelligent/projects/en/projects/cyber-display>
- [20] <https://ec.europa.eu/energy/intelligent/projects/en/projects/ca-epbd-ii>
- [21] <https://ec.europa.eu/energy/intelligent/projects/en/projects/construction21>
- [22] <https://ec.europa.eu/energy/intelligent/projects/en/projects/certus>
- [23] <https://ec.europa.eu/energy/intelligent/projects/en/projects/after>
- [24] <https://ec.europa.eu/energy/intelligent/projects/en/projects/rosh>
- [25] <https://ec.europa.eu/energy/intelligent/projects/en/projects/eebd>
- [26] <https://ec.europa.eu/energy/intelligent/projects/en/projects/vent-discourse>
- [27] <https://ec.europa.eu/energy/intelligent/projects/en/projects/educa-rue>
- [28] <https://ec.europa.eu/energy/intelligent/projects/en/projects/coolregion>
- [29] <https://ec.europa.eu/energy/intelligent/projects/en/projects/ecolish>
- [30] <https://ec.europa.eu/energy/intelligent/projects/en/projects/ei-education>
- [31] <https://ec.europa.eu/energy/intelligent/projects/en/projects/epa-nr>
- [32] <https://ec.europa.eu/energy/intelligent/projects/en/projects/epi-crem>
- [33] <https://ec.europa.eu/energy/intelligent/projects/en/projects/epi-soho>
- [34] <https://ec.europa.eu/energy/intelligent/projects/en/projects/enslic-building>
- [35] <https://ec.europa.eu/energy/intelligent/projects/en/projects/esam>
- [36] <https://ec.europa.eu/energy/intelligent/projects/en/projects/e-tool>
- [37] <https://ec.europa.eu/energy/intelligent/projects/en/projects/educate>
- [38] <https://ec.europa.eu/energy/intelligent/projects/en/projects/epbd-ca-iii>
- [39] <https://ec.europa.eu/energy/intelligent/projects/en/projects/epes>
- [40] <https://ec.europa.eu/energy/intelligent/projects/en/projects/euleb>
- [41] <https://ec.europa.eu/energy/intelligent/projects/en/projects/enforce>
- [42] <https://ec.europa.eu/energy/intelligent/projects/en/projects/e-seap>
- [43] <https://ec.europa.eu/energy/intelligent/projects/en/projects/auditac>
- [44] <https://ec.europa.eu/energy/intelligent/projects/en/projects/greenbuilding>
- [45] <https://ec.europa.eu/energy/intelligent/projects/en/projects/harmonac>
- [46] <https://ec.europa.eu/energy/intelligent/projects/en/projects/implement>

[47] <https://ec.europa.eu/energy/intelligent/projects/en/projects/impact>  
[48] <https://ec.europa.eu/energy/intelligent/projects/en/projects/isees>  
[49] <https://ec.europa.eu/energy/intelligent/projects/en/projects/ilete>  
[50] <https://ec.europa.eu/energy/intelligent/projects/en/projects/inofin>  
[51] <https://ec.europa.eu/energy/intelligent/projects/en/projects/cense>  
[52] <https://ec.europa.eu/energy/intelligent/projects/en/projects/greenbuildingplus>  
[53] <https://ec.europa.eu/energy/intelligent/projects/en/projects/lcc-data>  
[54] <https://ec.europa.eu/energy/intelligent/projects/en/projects/energy-trophy>  
[55] <https://ec.europa.eu/energy/intelligent/projects/en/projects/passive>  
[56] <https://ec.europa.eu/energy/intelligent/projects/en/projects/ides-edu>  
[57] <https://ec.europa.eu/energy/intelligent/projects/en/projects/zebra2020>  
[58] <https://ec.europa.eu/energy/intelligent/projects/en/projects/nirsepes>  
[59] <https://ec.europa.eu/energy/intelligent/projects/en/projects/nzb2021>  
[60] <https://ec.europa.eu/energy/intelligent/projects/en/projects/factor-4>  
[61] <https://ec.europa.eu/energy/intelligent/projects/en/projects/cool-roofs>  
[62] <https://ec.europa.eu/energy/intelligent/projects/en/projects/pep>  
[63] <https://ec.europa.eu/energy/intelligent/projects/en/projects/nezer>  
[64] <https://ec.europa.eu/energy/intelligent/projects/en/projects/northpass>  
[65] <https://ec.europa.eu/energy/intelligent/projects/en/projects/re-co>  
[66] <https://ec.europa.eu/energy/intelligent/projects/en/projects/republiczeb>  
[67] <https://ec.europa.eu/energy/intelligent/projects/en/projects/request2action>  
[68] <https://ec.europa.eu/energy/intelligent/projects/en/projects/reshape>  
[69] <https://ec.europa.eu/energy/intelligent/projects/en/projects/savework4homes>  
[70] <https://ec.europa.eu/energy/intelligent/projects/en/projects/stable>  
[71] <https://ec.europa.eu/energy/intelligent/projects/en/projects/keepcool>  
[72] <https://ec.europa.eu/energy/intelligent/projects/en/projects/smart-e-buildings>  
[73] <https://ec.europa.eu/energy/intelligent/projects/en/projects/share>  
[74] <https://ec.europa.eu/energy/intelligent/projects/en/projects/step-2-sport>  
[75] <https://ec.europa.eu/energy/intelligent/projects/en/projects/save-age>  
[76] <https://ec.europa.eu/energy/intelligent/projects/en/projects/sentro>  
[77] <https://ec.europa.eu/energy/intelligent/projects/en/projects/sure-fit>  
[78] <https://ec.europa.eu/energy/intelligent/projects/en/projects/tackobst>  
[79] <https://ec.europa.eu/energy/intelligent/projects/en/projects/thermco>  
[80] <https://ec.europa.eu/energy/intelligent/projects/en/projects/e-retrofit-kit>  
[81] <https://ec.europa.eu/energy/intelligent/projects/en/projects/building-eq>  
[82] <https://ec.europa.eu/energy/intelligent/projects/en/projects/towards-class>  
[83] <https://ec.europa.eu/energy/intelligent/projects/en/projects/trees>  
[84] <https://ec.europa.eu/energy/intelligent/projects/en/projects/reetrofit>  
[85] <https://ec.europa.eu/energy/intelligent/projects/en/projects/keep-cool-ii>  
[86] <https://ec.europa.eu/energy/intelligent/projects/en/projects/tabula>  
[87] <https://ec.europa.eu/energy/intelligent/projects/en/projects/use-efficiency>