



Sources of information on the cost of heat

*This is an excerpt of the report Estimating RHC energy costs:
Technical Report on the Elaboration of a Cost Estimation Methodology*

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THE FRONT PROJECT IS WORKING ON HOW THE COSTS OF ENERGY (HEAT AND COLD) ARE DEFINED. AS PART OF THIS WORK, A 'TECHNICAL REPORT ON THE ELABORATION OF A COST ESTIMATION METHODOLOGY' IS BEING PREPARED.

THE BIBLIOGRAPHY OF THIS REPORT IS BELOW. IT WILL SERVE AS A USEFUL READING LIST FOR ANYONE INVESTIGATING COSTS OF HEAT.

Jager, D., C. Klessmann, E. Stricker, T. Winkel, E. de Visser, M. Koper, M. Ragwitz, A. Held, G. Resch, S. Busch, C. Panzer, A. Gazzo, T. Roulleau, P. Gousseland, M. Henriët, A. Bouillé (2011). *Financing Renewable Energy in the European Energy Market*, Technische Universität Wien, Fraunhofer, Ecofys, Ernst & Young, 264 pp. Available at: http://ec.europa.eu/energy/renewables/studies/doc/renewables/2011_financing_renewable.pdf

DECC. (2013). *Impact assessment on the Renewable Heat Incentive*, DECC, 47 pp. Available at: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/211978/Domestic_RHI_Impact_Assessment.pdf

The Boston Consulting Group (2011). *Evolución Tecnológica y Prospectiva de Costes de las Energías Renovables*, IDAE, 232 pp. Available at: http://www.idae.es/uploads/documentos/documentos_11227_e2_tecnologia_y_costes_7d24f737.pdf

Schweiger, H., C. Vannoni, I. Pinedo Páscua, E. Facci, D. Baehrens, M. Koch, D. Pérez, L. Mozetic (2011). *Evaluación del Potencial de la Energía Solar Térmica en el Sector Industrial*, IDAE, 768 pp. Available at: http://www.idae.es/uploads/documentos/documentos_11227_e8_ST_industria_bf2e9296.pdf

Sánchez Guzmán, J., L. Sanz López, L. Ocaña Robles (2011). *Evaluación del Potencial de Energía Geotérmica*, IDAE, 236 pp. Available at: [http://www.energiasrenovables.ciemat.es/adjuntos_documentos/IDAEgeotermia\[2011\].pdf](http://www.energiasrenovables.ciemat.es/adjuntos_documentos/IDAEgeotermia[2011].pdf)

Carrera A., L. Sisó, A. Herena, M. Valle, M. Casanova, D. González (2011). *Evaluación del Potencial de Climatización con Energía Solar Térmica en Edificios*, IDAE, 256 pp. Available at: http://www.idae.es/index.php/mod.documentos/mem.descarga?file=/documentos_11227_e10_climatizacion_ST_edificios_A_ccb82cce.pdf

Cabrera, M., A. Vera, J. M. Cornejo, I. Ordás, E. Tolosana, Y. Ambrosio, I. Martínez, S. Vignote, N. Hotait, A. Lafarga, J. Á. Garraza (2011). *Evaluación del Potencial de Energía de la Biomasa*, IDAE, 196 pp.

Stryi-Hipp, G., W. Weiss, D. Mugnier, P. Dias (2012). *Strategic Research priorities for Solar Thermal Technologies*, RHC Platform, 35 pp. Available at: http://www.idae.es/uploads/documentos/documentos_11227_e14_biomasa_A_8d51bf1c.pdf

Beerepoot, M. (2012). *Technology Roadmap Solar Heating and Cooling*, IEA, 50 pp.

Taylor, M. (2011). *Technology Roadmap Energy-efficient Buildings: Heating and Cooling Equipment*, IEA, 56 pp. Available at:

http://www.iea.org/publications/freepublications/publication/2012_SolarHeatingCooling_Roadmap_FINAL_WEB.pdf

Beerepoot, M. (2011). *Technology Roadmap Geothermal Heat and Power*, IEA, 52 pp. Available at: http://www.iea.org/publications/freepublications/publication/Geothermal_Roadmap.pdf

Eisentraut, A., A. Brown (2012). *Technology Roadmap Bioenergy for Heat and Power*, IEA, 68 pp. Available at: <http://www.iea.org/publications/freepublications/publication/bioenergy.pdf>

Branker K., M.J.M. Pathak, J.M. Pearce (2011). *Renewable and Sustainable Energy Reviews*, Elsevier, 13 pp.

DECC (2013). *Renewable Heat Incentive – Domestic*, DECC, 47 pp. Available at: http://www.rhincentive.co.uk/library/regulation/1209Ph2RIA_DECC6454.pdf

EGEC (2012). *EGEC Market Report 2012*, EGEC, pp. 21-22.

Resch G., T. Faber, R. Haas (2006) *Short Characterisation of the Green_X model*, Technische Universität Wien, 21 pp. Available at: [http://www.optres.fhg.de/events/workshop-2006-10-12/Green-X%20model%20\(OPTRES-Final%20conference-12-2006%20-%20Gustav%20Resch%20-%20TU%20Vienna\).pdf](http://www.optres.fhg.de/events/workshop-2006-10-12/Green-X%20model%20(OPTRES-Final%20conference-12-2006%20-%20Gustav%20Resch%20-%20TU%20Vienna).pdf)

Bradford, J., F. Bean (2011). *Here comes the sun: a field trial of solar water heating systems*, Energy Saving Trust, 24 pp. Available at: <http://www.energysavingtrust.org.uk/Publications2/Generating-energy/Field-trial-reports/Here-comes-the-sun-a-field-trial-of-solar-water-heating-systems>

Kost, C., J. N. Mayer, J. Thomsen, N. Hartmann, C. Senkpiel, S. Philipps, S. Nold, S. Lude N. Saad, T, Schlegl (2013). *Levelized Cost of Electricity Renewable Energy Technologies*, Fraunhofer Institute, 50 pp. Available at: <http://www.ise.fraunhofer.de/en/publications/veroeffentlichungen-pdf-dateien-en/studien-und-konzeptpapiere/study-levelized-cost-of-electricity-renewable-energies.pdf>

Steinhilber S., M. Ragwitz, M. Rathmann, C. Klessmann, P. Noothout (2011). *RE-Shaping: Shaping an effective and efficient European renewable energy market*, Intelligent Energy Europe, 111 pp. Available at: http://www.reshaping-res-policy.eu/downloads/Final%20report%20RE-Shaping_Druck_D23.pdf

Bruckner, T., H. Chum, A. Jäger-Waldau, Å. Killingtveit, L. Gutiérrez-Negrín, J. Nyboer, W. Musial, A. Verbruggen, R. Wiser (2011). *Recent Renewable Energy Cost and Performance Parameters*, IPCC, pp. 1002-1022. Available at: http://srren.ipcc-wg3.de/report/IPCC_SRREN_Annex_III.pdf

Hummel, M., L. Kranzl, F. Hummel, C. Brunner, J. Fluch (2013). *Reducing Fuel Consumption in Industry: Assessment of the Economic Efficiency of the Integration of Solar Thermal Energy into Industrial Processes*, ACEEE, 13 pp. Available at: http://aceee.org/files/proceedings/2013/data/papers/4_070.pdf

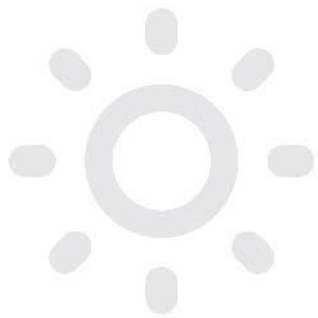
ADENE (2014). *Methodological frameworks for the calculation of RHC*, ADENE, 2pp.

Energy Saving Trust *Solar Water Heating Systems: costs, savings and earnings*, Energy Saving Trust. 5 pp.

Energy Saving Trust (2013). *The Heat Is On: Heat Pump Field Trials*, Energy Saving Trust, 40 pp. Available at: <http://www.energysavingtrust.org.uk/Organisations/Working-with-Energy-Saving-Trust/The-Foundation/Our-pioneering-research/The-heat-is-on-heat-pump-field-trials>

Hummel, M., L. Kranzl (2013). *In Richtung einer CO₂-neutralen Wärmebereitstellung in der Lebensmittelherstellung*, Solarfoods, 49 pp. Available at: http://www.eeg.tuwien.ac.at/eeg.tuwien.ac.at_pages/publications/pdf/HUM_REP_2013_1.pdf

Pawel I., (2014). *The cost of storage - how to calculate the levelized cost of stored energy (LCOE) and applications to renewable energy generation*, Elsevier, 10 pp.



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