

Set of about 70 energy efficiency measures of cross-sectoral technologies

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1 Executive summary

Within IMPAWATT, staff training material on main energy efficiency measures (about 70 measures) in industrial enterprises (and offices) was developed.

These documents are intended for energy managers and technical staff of companies of the industrial and service sector.

The purpose of these documents is to give, in concise form, a description of cross sectoral technologies and a description of the main saving measures in this area.

For the following 14 systems /topics 71 measures were described:

- Energy management (7)
- Pumps (6)
- Compressed Air (8)
- Fans, HVAC (8)
- Cooling systems (6)
- Office (2)
- Heating of buildings & envelop (7)
- Lighting systems (4)
- Industrial heating (2)
- Steam (9)
- Waste heat recovery, heat pumps (3)
- Insulation of pipes, heat distribution (3)
- Mobility (3)
- Renewables (3)

Each factsheet has the following content (as far as information was available):

- Title of saving measure
- Description of cross sectoral technology
- Description of saving measure
- Average pay-back time
- Relevance of implementation (e.g. low-hanging fruit)
- Non-energy benefits
- Measurement and Verification
- Example of implemented measure (if available)

2 Documents library

All documents are translated in French, German and Italian. Only selected documents are translated in Finnish, since original English versions are suitable for the use with Finnish companies.

They are available on the national IMPAWATT platforms:

EU central platform: <https://eu.impawatt.com/>

Austria: <https://at.impawatt.com/>

Germany: <https://de.impawatt.com/>

Finland: <https://fi.impawatt.com/>

France: <https://fr.impawatt.com/>

Italy: <https://it.impawatt.com/>

Switzerland: <https://fr.impawatt.com/>

The following table give links to directly access to one specific document:

IMPAWATT

					Documents on national platforms Translations and/or adaptation to national context						
Del no	Doc no	Document name	Document Type	File Type	EU (Basis) English	Finland Finnsh/English	France French	Switzerland French	Germany German	Austria German	Italy Italian
1	D2.2	1.1.1 Human resource : management role, Energy Manager, Energy Team, Training	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/ta0k3_vjH7shJNbx7VbIroRTm3CoEtK-orQkuC17mcte5	https://fi.impawatt.com/se/archMeasures/show/844c3_vjH7shJNbx7VbIroRTm3CoEtK-orQkuC17mcte5	https://fr.impawatt.com/se/archMeasures/show/AEulK0KPL20oSHyBz2P-YNolw%3D%3D	https://ch.impawatt.com/se/archMeasures/show/HtclC0h27P7Yenx1DTKve6rv%3D%3D	https://de.impawatt.com/se/archMeasures/show/3kteGFluKeVStczNA4hm4EPw-y%3D%3D	https://at.impawatt.com/se/archMeasures/show/MjKCFMMhMPLYeQ19Nv_6KX11y%3D%3D	https://it.impawatt.com/se/archMeasures/show/G1PXJec7S0zG4hMbD3zHKEWA%3D%3D
2	D2.2	1.1.2 Follow-up of Energy consumption : indicators, energy monitoring	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/z3EEZ6TWP2apkChfnVKDEOK	https://fi.impawatt.com/se/archMeasures/show/UkognSooS9nRQVtpmUtQQOfmUk%3D	https://fr.impawatt.com/se/archMeasures/show/O1Br2OwaCHE-sypp0wBzyDPUw%3D%3D	https://ch.impawatt.com/se/archMeasures/show/SzAO2FnL5oOm9Ts-lmlz3Fog%3D	https://de.impawatt.com/se/archMeasures/show/BDO9M3SgyeTVcxuRXudG2G6u-g%3D%3D	https://at.impawatt.com/se/archMeasures/show/BIJQ40K0g5mW0zEt0PIFv_m1s-w%3D%3D	https://it.impawatt.com/se/archMeasures/show/75MGm0QKzPv6vOm00-DE6x8B-U%3D
3	D2.2	1.1.3 Action plan and objectives - Quality Control and ISO 50.001	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/AW6jp_QmIOQ4N9oO2dOZ4GMb	https://fi.impawatt.com/se/archMeasures/show/qz7WdyP4Bwq-8MiqV2vxrrOaj7E%3D	https://fr.impawatt.com/se/archMeasures/show/p_WkIqBlCOmBSH80tqOm8ALHnA%3D%3D	https://ch.impawatt.com/se/archMeasures/show/hzPO9WPlxfFamL-c0woUR4uX494%3D	https://de.impawatt.com/se/archMeasures/show/uFdkfjVRgK8qwaKYMn3V66CMeA%3D%3D	https://at.impawatt.com/se/archMeasures/show/MhVp9kCeY0UbvzF8bv5k4VvI-w%3D%3D	https://it.impawatt.com/se/archMeasures/show/XA2i4oJZRINVS8jPKVqT1VjW0%3D
4	D2.2	1.1.4 How to use external experts	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/kQ-ig3mdMfg8cIEgXzws_oWk	https://fi.impawatt.com/se/archMeasures/show/FXBzRDiC4v5_YRA7INmnlU5oWts%3D	https://fr.impawatt.com/se/archMeasures/show/BHRQrTjrd6r1DaGxvwwk1GFJp%3D%3D	https://ch.impawatt.com/se/archMeasures/show/BHRQrTjrd6r1DaGxvwwk1GFJp%3D%3D	https://de.impawatt.com/se/archMeasures/show/d5UkMMkHBF3XDPKKe0dUYNjg-UQ%3D%3D	https://at.impawatt.com/se/archMeasures/show/ct8pTPB7BIUNZ1ZQ22akpDg-k%3D	https://it.impawatt.com/se/archMeasures/show/7CQUZb_FrIhdNhtGvWOMTLR8N%3D
5	D2.2	1.1.5 Energy purchase : energy market, offers, invoices, green energy	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/g5LnbdO5smGg1pczrDcl_sY	https://fi.impawatt.com/se/archMeasures/show/Hlc7QkxTEIzvpX9I8x8oYJ8J7k%3D	https://fr.impawatt.com/se/archMeasures/show/7e_Tvke0x5WdJN5jlbQRRPAHdA%3D%3D	https://ch.impawatt.com/se/archMeasures/show/MUNPwcljet4_JhaGPNPWAXYTN1o0%3D	https://de.impawatt.com/se/archMeasures/show/d9-JhefepzJMAQF_dIpeXoKIVU-g%3D%3D	https://at.impawatt.com/se/archMeasures/show/TSYe9h0b0AeMlyP-Lp-6E8LPZLQ%3D	https://it.impawatt.com/se/archMeasures/show/Rkh5uujj78DvtAqD1H0AIpqtLo%3D
6	D2.2	1.1.6 Regulatory obligations	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/lpY-xO066ze5Tjne2ueaQ3IW	https://fi.impawatt.com/se/archMeasures/show/8THWgd2P9lnIzqNAzrk51m6P5E%3D	https://fr.impawatt.com/se/archMeasures/show/GHDEzMGsmekuG3mpmNxl8nLd-w%3D%3D	https://ch.impawatt.com/se/archMeasures/show/2K5UQ%3D%3D	https://de.impawatt.com/se/archMeasures/show/az01MoihbhL-W6vfkPQ8aKvYA%3D%3D	https://at.impawatt.com/se/archMeasures/show/MCAKwaNlygOD90JYKxNxdHXBk9A%3D	https://it.impawatt.com/se/archMeasures/show/oxe8ln9aYs-nl9aIQ0Wx2au20%3D
7	D2.2	1.1.7 Financial support for energy management	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/wfKwUC8GH07g6DBMQb-sAll	https://fi.impawatt.com/se/archMeasures/show/p5Vv6gO9K9Mpp0_C9U0wzsvYx84%3D	https://fr.impawatt.com/se/archMeasures/show/fo6Ad2PjTY8yG0euuWkWCxmQ%3D%3D		https://de.impawatt.com/se/archMeasures/show/xvFY8MZEira_mDF42XNshb45T-Q%3D%3D	https://at.impawatt.com/se/archMeasures/show/KnuRWrz6xtinD2CFHQUT-Vm34%3D	https://it.impawatt.com/se/archMeasures/show/8M2UYYptEbd4Uk1XKzo5sRE%3D
8	D2.2	2.1.1 Reduction of running time for pumps - Switch off motors when not needed	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/XElhkcZ0atRhTbvHKAfcpT7	https://fi.impawatt.com/se/archMeasures/show/lwF4L4t58x90LHzLdda_N9j1V8%3D	https://fr.impawatt.com/se/archMeasures/show/VdCI4tY0_GYySkd92V9GxXNMe%3D%3D	https://ch.impawatt.com/se/archMeasures/show/9cswAM5c67FdPCV3HraGxfHA%3D%3D	https://de.impawatt.com/se/archMeasures/show/2H0l2UJwct2U26rKj4G3hUySQ%3D%3D	copied but not translated	https://it.impawatt.com/se/archMeasures/show/eoofFA3vYr5Agdww-47B-UhVtWx8%3D
9	D2.2	2.1.2 Adapt the offer to real needs	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/YRHx1Cjwn5bRetQg-yEHomd4	https://fi.impawatt.com/se/archMeasures/show/785f5lnlR0QBQWv5o9Si-5wU8cs%3D	https://fr.impawatt.com/se/archMeasures/show/rdfFNdgKcrtWEqIjgPmRmtQ%3D%3D	https://ch.impawatt.com/se/archMeasures/show/wxulP-zTbueQfTRm5LGI_i6Mg%3D%3D	copied but not translated	https://it.impawatt.com/se/archMeasures/show/EWwG8yuetQOYAG7nOdCNf829Zk%3D	
10	D2.2	2.1.3 Optimised control of rotodynamic pumps	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/tyEVQMCOPwuvrQwJ6CR1M9	https://fi.impawatt.com/se/archMeasures/show/K1c-IFXQd6Yz17EYotzmmPZZEt%3D	https://fr.impawatt.com/se/archMeasures/show/K8CLgis7nZipVdUtGqV7mb8A%3D%3D	https://ch.impawatt.com/se/archMeasures/show/Z_CYRLDU7V1ReGvJUEPRDj2tmQ%3D%3D	copied but not translated	https://it.impawatt.com/se/archMeasures/show/A6Zy2WMfVew7uIPto072Z5AheO-g%3D	
11	D2.2	2.1.4 Pump motor replacement	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/Ma7wImOB-KzykEjTvhMB1LXt	https://fi.impawatt.com/se/archMeasures/show/C3C8MaC-5_1RiIsENY6jgjeIH%3D	https://fr.impawatt.com/se/archMeasures/show/9b0U2D6NHispv3dSiMZdI8Yg%3D%3D	https://ch.impawatt.com/se/archMeasures/show/YedNlUdx06E8YvHE0vZDooeA%3D%3D	copied but not translated	https://it.impawatt.com/se/archMeasures/show/XvqXQIpe8sZYUvDpN1sA5ZBxmLU%3D	
12	D2.2	2.1.5 Drive replacement (pumps)	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/lo86gTKNJWUvZ6_auq3wTrq1	https://fi.impawatt.com/se/archMeasures/show/Aqf4Ls9oDdtFzd4Le1L7FCW0wY%3D	https://fr.impawatt.com/se/archMeasures/show/lu01qZQ_nrk40hLlQB-4xxYQ%3D%3D	https://ch.impawatt.com/se/archMeasures/show/WDm6AHEzOD6vOckHPC3UkOCg%3D%3D	copied but not translated	https://it.impawatt.com/se/archMeasures/show/D15yZvPr5vGK9_EvoAt5aggauc%3D	
13	D2.2	2.1.6 Pump replacement	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/jShNR7TdP8suUWxJvgLP9_m	https://fi.impawatt.com/se/archMeasures/show/Uxx5Lk1FDL5nlz9A0IElqfmlNwY%3D	https://fr.impawatt.com/se/archMeasures/show/Ee8ER5ggFseIMrv3p-giqGkxw%3D%3D	https://ch.impawatt.com/se/archMeasures/show/4myNN_QTNVf_Asj275WaC3jyA%3D%3D	copied but not translated	https://it.impawatt.com/se/archMeasures/show/021bh2WfE7_Ulgo-U8IP72TMT%3D	
14	D2.2	2.2.1 Optimisation of compressed air users/appliances	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/DKQEJK9bKc7nehPftb_s9I6	https://fi.impawatt.com/se/archMeasures/show/DKQE901BWhw8Rp-RZoHER534yE%3D	https://fr.impawatt.com/se/archMeasures/show/VHfO2CaLgqG3_BmokTgyv-w%3D%3D	https://ch.impawatt.com/se/archMeasures/show/KbPPc-Pz3CM3DzQyAl6deavevg%3D%3D	https://de.impawatt.com/se/archMeasures/show/4ktE-ITnfTAvDdmA6efmvOmcw%3D%3D	https://at.impawatt.com/se/archMeasures/show/ILS_d7D1K7yhtZaicKhQnDP7g%3D%3D	https://it.impawatt.com/se/archMeasures/show/0ZK9528e7Th0uR7_-l71C3l0c%3D
15	D2.2	2.2.2 Optimisation of the pressure in the system (compressed air)	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/xb8l8t1p8Jh063EZaylw6em	https://fi.impawatt.com/se/archMeasures/show/zmHcpRmJEvnlE1lc3qWwWukUz%3D	https://fr.impawatt.com/se/archMeasures/show/ISJfKMS9YAqCobQlHg3Y_3UGO%3D%3D	https://ch.impawatt.com/se/archMeasures/show/d0KMYceExzy1rQozu3u29AU-w%3D%3D	https://de.impawatt.com/se/archMeasures/show/4xupjdJhL-EPuv4JuwJf5CTA%3D%3D	https://at.impawatt.com/se/archMeasures/show/c1Qf5l0nAKTnmDl930aGvQ-PC_bAVNKeJamMEhsu1GM-q4%3D	https://it.impawatt.com/se/archMeasures/show/9VMG589s9Nquwx2AgkCMG_IGY%3D
16	D2.2	2.2.3 Switch off of appliances in non-operation times (compressed air)	Factsheet	Word	https://eu.impawatt.com/se/archMeasures/show/ahFizZG6CfuJ7ngOitpCEgEA	https://fi.impawatt.com/se/archMeasures/show/RcWbWkFwO-zgPQp561Tpd5cZhrI%3D	https://fr.impawatt.com/se/archMeasures/show/-c-LeoM6x8wn61aJWRH5Um7-rNw%3D%3D	https://ch.impawatt.com/se/archMeasures/show/g9_K4V5D06l8Rcb8PDUVUogyrge%3D%3D	https://de.impawatt.com/se/archMeasures/show/4xupjdJhL-EPuv4JuwJf5CTA%3D%3D	https://at.impawatt.com/se/archMeasures/show/c1Qf5l0nAKTnmDl930aGvQ-PC_bAVNKeJamMEhsu1GM-q4%3D	https://it.impawatt.com/se/archMeasures/show/9VMG589s9Nquwx2AgkCMG_IGY%3D

34	D.2.2	2.4.5	Reduction of leakages (cooling)	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/8LIQOf8l6Wnh2rXhnduaxpl	https://fr.impawatt.com/searchMeasures/show/1f0wJn-81u04r-bwXnF8Hgr_Q0%3D	https://ch.impawatt.com/searchMeasures/show/1GKls_M5lFu5PEoS5Spk-glVmw%3D%3D	https://de.impawatt.com/searchMeasures/show/VVWguAWV-0x2f48Dw68igemk%3D%3D	https://at.impawatt.com/searchMeasures/show/Ry7TJie-VUhhN8rzK76b_mn4a%3D%3D	https://it.impawatt.com/searchMeasures/show/12MrGFDmwb8lMohnaFIm8-VNh%3D%3D
35	D.2.2	2.4.6	Heat recovery (cooling systems)	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/QOQOni_dBpuLeib7aHW16He	https://fr.impawatt.com/searchMeasures/show/bCnyobHajOAJRSH25bAxc8Bg50Oni	https://ch.impawatt.com/searchMeasures/show/1XvAplBgD0JwPzTsvRw9g%3D%3D	https://de.impawatt.com/searchMeasures/show/0tCoAITfWv09erA3IOOaAqmg%3D%3D	https://at.impawatt.com/searchMeasures/show/ndTKAMCVSv2_I fcsJxbOfcpnw%3D%3D	https://it.impawatt.com/searchMeasures/show/YVZL9bADZLU-bRkuWHpB18VBEQ%3D
36	D.2.2	2.5.1	Running time, energy manager configuration, automatic shutdown programming (offices)	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/9YVlPryQEI_lJw1RBIPAgtrO	https://fr.impawatt.com/searchMeasures/show/rbuxbS8tA24d2uzWY47qMkEqOz	https://ch.impawatt.com/searchMeasures/show/0IXcR9hmalAG0ku81OKJMWCE%3D%3D	https://de.impawatt.com/searchMeasures/show/5XpdyFLyn7tmlunYC-XcTzcmw%3D%3D	https://at.impawatt.com/searchMeasures/show/De4L4RgkbrCpT-8A_gFIG8FzW4%3D	https://it.impawatt.com/searchMeasures/show/12MrGrd3Pc373nU0YwL5n14A2IQ1E%3D
37	D.2.2	2.5.2	Equipments performance	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/t7CK5JwBrilTtm1oNr8LEU4t	https://fr.impawatt.com/searchMeasures/show/OCUdey3Xrh-k4-T8O6BmlmXjZa8%3D	https://ch.impawatt.com/searchMeasures/show/k7OXcR9nOJcMlJNt6zfyDhnZ9w%3D%3D	https://de.impawatt.com/searchMeasures/show/6h3k2Rz9zclKavX109r78BD8M%3D%3D	https://at.impawatt.com/searchMeasures/show/lynAmdQYCaFGxYwgttNTdaafa8%3D	https://it.impawatt.com/searchMeasures/show/AGMr4w8Y0hXg1_8hbyO5agLXO%3D
38	D.2.2	3.1.1	Separation of the heated areas	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/ahk6mDBVBR0a236rQvvin7	https://fr.impawatt.com/searchMeasures/show/LKPElNjF2kVymofx4MOFKXIDT%3D	https://ch.impawatt.com/searchMeasures/show/osrdY8rftY54dP0c6k44EknA%3D	https://de.impawatt.com/searchMeasures/show/5fzPmJLz1Qog4Zexnc9G0Z-PZ1c%3D	https://at.impawatt.com/searchMeasures/show/IAR-3aY-wgtNVM_UUCz5vpBA%3D	https://it.impawatt.com/searchMeasures/show/si8UzX7Gkufo5-1_EWY7gK6c45%3D
39	D.2.2	3.1.2	Limitation of the energy losses by mechanical ventilation systems with heat recovery	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/g7enQJaxcyH2y1VmUS8my7R	https://fr.impawatt.com/searchMeasures/show/QCFXwok-wt8tLye5x-igQDpdtrg%3D	https://ch.impawatt.com/searchMeasures/show/kz6EId4eUFu6Tu-Ve2y6TS7aQ%3D%3D	https://de.impawatt.com/searchMeasures/show/75JLQ776GcGIUNDe2wK40h37nw%3D	https://at.impawatt.com/searchMeasures/show/xeJWUUsYoVn4dpG15Xzpjz2lYQ%3D	https://it.impawatt.com/searchMeasures/show/RpFil3o4owP81ZQ3V1AMGNOfX8%3D
40	D.2.2	3.1.3	Insulation of building envelope (walls, roofs)	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/2iD0reZwVtV0Pm55GAkeLAEX5	https://fr.impawatt.com/searchMeasures/show/TLFp3l9UGwDSIdN-hgEpaJfNVU%3D	https://ch.impawatt.com/searchMeasures/show/GwtHT69KvVw8Ph9SvoWgZAdO%3D%3D	https://de.impawatt.com/searchMeasures/show/rB7pYFV04ngNCD1Vmy3MRopid%3D	https://at.impawatt.com/searchMeasures/show/41bqLkLOBNpLlnH04GVRC-8%3D%3D	https://it.impawatt.com/searchMeasures/show/ciaqXfNF-4c4b_cTe5xTQ5o4%3D
41	D.2.2	3.1.4	Insulation of transparent opening	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/PqVWWg8tJ9n5c5Y8VgFR9iKeg%3D%3D	https://fr.impawatt.com/searchMeasures/show/aMBE0yI64H0snK-W9gMpl9vPBs4%3D	https://ch.impawatt.com/searchMeasures/show/dJrPH_rAHF67EosXmp9t7IYDQ%3D%3D	https://de.impawatt.com/searchMeasures/show/zA_NtAtROKMIzX_Mcwh4ioXW%3D	https://at.impawatt.com/searchMeasures/show/YyILGdt3fM8s_x7A3idFNIJGEEA%3D	https://it.impawatt.com/searchMeasures/show/wQ48AdoWQdHA7nUGRoTugholN_E%3D
42	D.2.2	3.1.5	Replace heat generators (condensation gaz, pellets, Heat pump)	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/rSTLlWpWz2Lbc4yV6z3Vj621hg%3D%3D	https://fr.impawatt.com/searchMeasures/show/fbnZnSIAuX7nXyR84H4EiyA9KIE%3D	https://ch.impawatt.com/searchMeasures/show/OY8gnc30zPBL7CjeffM9cZA%3D%3D	https://de.impawatt.com/searchMeasures/show/d5YnYg03M81hdTo5YDQd1J8G%3D	https://at.impawatt.com/searchMeasures/show/WXSGmbZyHl3aO0vichyJaqE9A%3D	https://it.impawatt.com/searchMeasures/show/5DZIHOTxrfZp6CPhyJlCqrR0j%3D
43	D.2.2	3.1.6	Air destratifier	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/zAZvYyB7L6tO8RyZcyk6F8MA%3D%3D	https://fr.impawatt.com/searchMeasures/show/XC9rAhA52b7c-kIv_wq_ZhtNY4%3D	https://ch.impawatt.com/searchMeasures/show/7P-0gpxXyN55jO0T9Y1NaMP%3D%3D	https://de.impawatt.com/searchMeasures/show/7ZNYB_v3luyV3peua7MTGhumhGAW%3D	https://at.impawatt.com/searchMeasures/show/a8G6B_v3luyV3peua7MTGhumhGAW%3D	https://it.impawatt.com/searchMeasures/show/el8YzPv585CNmGP8m955PO2P%3D
44	D.2.2	3.1.7	Optimisation of setpoint (heating curve, timers,...)	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/tYsdh43TLmNzFoYj8px5k6wSg%3D%3D	https://fr.impawatt.com/searchMeasures/show/ZPlgTQl0cIKTBK3k3DYVvr%3D%3D	https://ch.impawatt.com/searchMeasures/show/6Heojl6f6i_uhU0yVzNZOWoTcw%3D%3D	https://de.impawatt.com/searchMeasures/show/Y2C7aPcIKknPKKJi26TsjpN%3D	https://at.impawatt.com/searchMeasures/show/3DfzEoKJ21KLM_voFG8P1rMH%3D	https://it.impawatt.com/searchMeasures/show/IdnswF9YU3heOwLl4cmhWmG6mU%3D
45	D.2.2	4.1.1	Optimization of day-light use	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/9gn4eMmPuPTr-BHHPqwG8T5bw%3D%3D	https://fr.impawatt.com/searchMeasures/show/DeYXVcpg4PNpUuOdY9TisLr0eC%3D	https://ch.impawatt.com/searchMeasures/show/ZVYkmvZBDG2ke9b5ECyWZPw%3D%3D	https://de.impawatt.com/searchMeasures/show/TORw7mU-IFj0e8IAE5Dx7M7MGU%3D	https://at.impawatt.com/searchMeasures/show/Kfvpq8nRADsxmEKGf54r5O2YU%3D	https://it.impawatt.com/searchMeasures/show/oiy1wKApCfkQwJlmgdb762dlU%3D
46	D.2.2	4.1.2	Optimization of lighting-control	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/G4svQBz4nmnyCplNwll_gpDYw%3D%3D	https://fr.impawatt.com/searchMeasures/show/TwIBtnLHaCXUoafuzY7BpxMOZU%3D	https://ch.impawatt.com/searchMeasures/show/uZVC09uQbK1RpFE_3VDhpeDE%3D%3D	https://de.impawatt.com/searchMeasures/show/XmUoqjzXH6NPNky-AWLAE3w7Sw%3D%3D	https://at.impawatt.com/searchMeasures/show/AwGNBqQol0pcGhmnZ9lhWP6%3D	https://it.impawatt.com/searchMeasures/show/XvYafdkzQ0MHfukBc523RFSDI9E%3D
47	D.2.2	4.1.3	Optimization of room	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/Gwbb6YUSt2Ap6Ma3NwAl2uals%3D%3D	https://fr.impawatt.com/searchMeasures/show/J4TfoE7ZslpM8pPRHRNgA5_GTc%3D	https://ch.impawatt.com/searchMeasures/show/h6nKtqG7Yx0gN2xWl7pfaBq%3D%3D	https://de.impawatt.com/searchMeasures/show/-aIEl6tvGDrT33js_lz9fIarW0%3D%3D	https://at.impawatt.com/searchMeasures/show/CoZoHg9cWp66EfbW/Hkx0lCFhn%3D	https://it.impawatt.com/searchMeasures/show/4A09B0Cux_fivr-BTnadsip79oi%3D
48	D.2.2	4.1.4	Replacement of luminaire, lamps	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/z5c8Xiy5DFMxirhFISb0M2hg%3D%3D	https://fr.impawatt.com/searchMeasures/show/g3c2eIqPdG_JFDzl-h0R8gRZU%3D	https://ch.impawatt.com/searchMeasures/show/-86Vixar9XcK40acvnyXr%3D%3D	https://de.impawatt.com/searchMeasures/show/ybvJW9BgeIa1ZrdVINYagw%3D%3D	https://at.impawatt.com/searchMeasures/show/MTKwM4-EcPhJnr7Vf3LWg3sfAog%3D	https://it.impawatt.com/searchMeasures/show/aVjPa1SNIg4foQ-clvP7_hAv-Q%3D
49	D.2.2	5.1.1	Different types of Heating	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/WQ90imM6am2OWKlYCosHgmGmlrA%3D%3D	https://fr.impawatt.com/searchMeasures/show/OxtnYsr4NpFyuxSbpolpQoq%3D	https://ch.impawatt.com/searchMeasures/show/0qY5DCm1PMG5xiDOD3DfP7_kA%3D%3D	https://de.impawatt.com/searchMeasures/show/HMaHburzDT110dGR9lFBRSoEA%3D%3D	https://at.impawatt.com/searchMeasures/show/50MTHqr3Tf9VaaUlU5C-sfMVzHc%3D	https://it.impawatt.com/searchMeasures/show/13buRXPiQHW56lFQ57r7pfFoV0X%3D
50	D.2.2	5.1.2	Follow up of the temperature by temperature control, timers...	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/NevenlaoAdY-MenzAknudq8Z3FA%3D%3D	https://fr.impawatt.com/searchMeasures/show/UZZTAyKsSUBnfh7HFvJ5wZdQng%3D	https://ch.impawatt.com/searchMeasures/show/Gd6GsvkXsUBnfh7HFvJ5wZdQng%3D%3D	https://de.impawatt.com/searchMeasures/show/D0fd0XKzr6P8OUWOU_Oa0R68OQ%3D%3D	https://at.impawatt.com/searchMeasures/show/QiilEgZCSC4JMTpfB5XKTbGfAc%3D	https://it.impawatt.com/searchMeasures/show/FT20WsgCZlI7zyHnu2yoiyB6c%3D

51	D2.2	5.2.1	Reduction of required energy	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/y8q-xIZkNE9rcnK_epsKvPww%3D%3D	https://fi.impawatt.com/se_archMeasures/show/Yt-3TCT1MFBYdGifq6Wg3XDpM%3D	https://fr.impawatt.com/se_archMeasures/show/83PxiB21A0002_vrDaHjHUAJ%3D	https://ch.impawatt.com/s_earchMeasures/show/TaccQib_PcSi-wm9U6q3QYrFfgw%3D%3D	https://de.impawatt.com/s_earchMeasures/show/G0daMhAv6dN65VTS1rhBEpMl%3D	https://at.impawatt.com/s_earchMeasures/show/B3WCUjg7cZQINGUuoHSZ7kml%3D	
52	D2.2	5.2.2	Blow-down losses	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/1zIXpvS07Bx9fM6HsOyqm8BoA%3D%3D	https://fi.impawatt.com/se_archMeasures/show/IJ2IpeKUTRE8347o3wJ1JFLH2c%3D	https://fr.impawatt.com/se_archMeasures/show/QUidUX2RPF0EeO0QK-clogtRQ%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/xH0g045PspvEjF0wMGKCL-w%3D%3D	https://de.impawatt.com/s_earchMeasures/show/STITpUyDAJwupCVR_rm2n_vH0g%3D%3D	https://at.impawatt.com/s_earchMeasures/show/ok_BJyofyXh_4w3QmCkzVOAR%3D%3D	https://it.impawatt.com/se_archMeasures/show/kpuBxXPBPUSty347cNmVzMoY%3D
53	D2.2	5.2.3	Optimise Burner	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/UGMm6upI0vuFqALsM12v3IOV%3D%3D	https://fi.impawatt.com/se_archMeasures/show/dknOvEfgkr3mp3n8Cwd5mo-5yH%3D	https://fr.impawatt.com/se_archMeasures/show/C92t-melJM0ES8YXCTGMQUV%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/VYVHiqak3TEaTR5kGwwGfanE%3D%3D	https://de.impawatt.com/s_earchMeasures/show/fpAFv6C42-PXqgnPdd-E8d_CUV%3D	https://at.impawatt.com/s_earchMeasures/show/XrWvHK0ckQMaPv8mKITOON6%3D	https://it.impawatt.com/se_archMeasures/show/hMH5mH_LVRjgBfImXBrxfRvIA%3D
54	D2.2	5.2.4	Minimize excess air (oxygen rate sensor)	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/ryYkGgEhWZAFxziH4wIPE_BCw%3D%3D	https://fi.impawatt.com/se_archMeasures/show/5h37Dkshsey9TOhWS28zldzrWb5o%3D	https://fr.impawatt.com/se_archMeasures/show/bj_LV0GNuswmrhGaDD5BxhOZ%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/B-MZdh9BscJXp91fZjVYQH%3D%3D	https://de.impawatt.com/s_earchMeasures/show/ybF3yx80r11uRjxQsNson7m5B%3D	https://at.impawatt.com/s_earchMeasures/show/v5V761HHd9hSCDD0a2URTTcOT%3D	https://it.impawatt.com/se_archMeasures/show/grD4M5dIROSbLcNG25bvUQgc%3D
55	D2.2	5.2.5	Leak detection	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/oYBhJsuOs0vDBGelUPKPTvIQXw%3D%3D	https://fi.impawatt.com/se_archMeasures/show/8WajVz-Gyobg29GUAJyVvGutoA%3D	https://fr.impawatt.com/se_archMeasures/show/bF5kmbASfIGI0_SkChLktQ%3D	https://ch.impawatt.com/s_earchMeasures/show/plOTMrife_eAer1B2mN6N9C_Vg%3D	https://de.impawatt.com/s_earchMeasures/show/ITBjP7K18rmWcrZAtvMjpuPa%3D	https://at.impawatt.com/s_earchMeasures/show/DGuNvY4T6yo4PLB_rawdOfdC%3D	https://it.impawatt.com/se_archMeasures/show/bwC7HhaESLKaEtmXbuYsvjCWG%3D
56	D2.2	5.2.6	Steam Traps	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/Q11xzDsqbY0EIALx7IHORXyng%3D%3D	https://fi.impawatt.com/se_archMeasures/show/KQZ3aMT3XMHCo4zWwZT1Vz%3D	https://fr.impawatt.com/se_archMeasures/show/OmqUisBIInh64GXj0Bom_Omq%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/UJicQasxD81K8TNg9QibWn%3D%3D	https://de.impawatt.com/s_earchMeasures/show/dsdpTV4IODeLRXWzP6U2Y7fC%3D	https://at.impawatt.com/s_earchMeasures/show/QB0GxUjPMJ56bRuyw9Bz2PIA%3D	https://it.impawatt.com/se_archMeasures/show/K7Jddauplde212a1gpwLY10h0%3D
57	D2.2	5.2.7	Optimize condensate return	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/Tnw5qNP2szM4LyRkPV24JQRcP%3D%3D	https://fi.impawatt.com/se_archMeasures/show/AjnNgYHkcYJSRkFluig0y1uClg%3D	https://fr.impawatt.com/se_archMeasures/show/5nhzBAEACV-37O2sbOMkqRRkA%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/xnZnd2SovvwD9CwvppH0UIC%3D%3D	https://de.impawatt.com/s_earchMeasures/show/MUWhPCfQUwDkH-fnH4HIORH0dw%3D	https://at.impawatt.com/s_earchMeasures/show/lbtvoCshiiMaG05Jpu5FXcM9g%3D	https://it.impawatt.com/se_archMeasures/show/EivP7PCIOB_2OH9nIwpmViduG%3D
58	D2.2	5.2.8	Economizers and air preheaters	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/8EQcWuXb3E-ub31xUx_7ToEm5A3D%3D	https://fi.impawatt.com/se_archMeasures/show/ZzMI298z20nqA0tldBH615qlcV%3D%3D	https://fr.impawatt.com/se_archMeasures/show/0BKLm9H53qyFWG0f6ppWv0r%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/c_1ACXjyqLB90udF11RfE64D9A%3D%3D	https://de.impawatt.com/s_earchMeasures/show/T435zphuzs550accuOxpDzuxp%3D	https://at.impawatt.com/s_earchMeasures/show/V80dMEGLSM7PNSYwKAL8Yc%3D	https://it.impawatt.com/se_archMeasures/show/b0v61rPIA2EUsVw/GX4NxmJ5A%3D
59	D2.2	5.2.9	Use of vented steam	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/RMw6a25mIt5l423yBCbG9jWf7Q%3D%3D	https://fi.impawatt.com/se_archMeasures/show/NH5QwJTppxMu0_6thXiI9-0Yp%3D	https://fr.impawatt.com/se_archMeasures/show/IIA_025xU5VjBROKsVfGvoaA%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/NoY0BM7gqCPhWihX8zueI0ig%3D%3D	https://de.impawatt.com/s_earchMeasures/show/ZFyUjQkQLHxfE712N2Lw77Fhw%3D	https://at.impawatt.com/s_earchMeasures/show/1aD0NIHtj425J82Mpa09Vnrzc%3D	https://it.impawatt.com/se_archMeasures/show/y5HqaH5f-pKDRlCbdlorwIGQ%3D
60	D2.2	5.3.1	Installation of heat recovery systems	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/sRP4cH5VIOAI98XcDBIVArzDA%3D%3D	https://fi.impawatt.com/se_archMeasures/show/SzrOn-c-LTaj54nWi6hMoH9tM%3D	https://fr.impawatt.com/se_archMeasures/show/Kfz205-gV-07adPXXwnusu6zQ%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/VZD5wPbNJC-NgLEOPjZ28ndFXQ%3D%3D	https://de.impawatt.com/s_earchMeasures/show/SkPj4ceE80_aokaYSGceZbXqM%3D	https://at.impawatt.com/s_earchMeasures/show/boT4xGLRINbkhgTjPfo9sQC0d%3D	https://it.impawatt.com/se_archMeasures/show/blnKNO5iYGCmXmZ08bhg6rQ%3D
61	D2.2	5.3.2	Installation of heat pump	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/8a0l0pBCNCTyRq9wiGRDlIQf%3D%3D	https://fi.impawatt.com/se_archMeasures/show/utWj8JRLSeuWxiqV-Lcg9GCOLY%3D	https://fr.impawatt.com/se_archMeasures/show/xQ7MxNjKCRYzieisNHvAtiP40w%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/SEpdD9YgwmCBK0p5IK0oywKq7%3D%3D	https://de.impawatt.com/s_earchMeasures/show/TL4XC3w0yazJafEhphH5bfpZ7p4%3D	https://at.impawatt.com/s_earchMeasures/show/NLEZtE9V09-ESXL6FCuervXLi20%3D	https://it.impawatt.com/se_archMeasures/show/hRVn0hrx-CmjfaetZfu_d8h95%3D
62	D2.2	5.3.3	Installation of storage capacity (hot-, cold water)	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/3XkfYkKqsfOPGgKvDMCvxu1ag%3D%3D	https://fi.impawatt.com/se_archMeasures/show/kwnB85hPM88eLY-rafUklbrk%3D	https://fr.impawatt.com/se_archMeasures/show/KKa8UCvzLrL08M7y2d7TVaq5A%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/bVqIw0f40f2bzPzMBGf30gm7Nw%3D	https://de.impawatt.com/s_earchMeasures/show/WB8Zdf2suoQUVdJ3gYIW_0sgd%3D	https://at.impawatt.com/s_earchMeasures/show/r4Xc65Un2y61rI09n3XoirxR%3D	https://it.impawatt.com/se_archMeasures/show/tmu4TNI0ESvC0cxPj5jpw_x7Ks%3D
63	D2.2	5.4.1	Insulation of appliances (hot and cold appliances)	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/NtnrQ-8inYibjOkav7iArT-7JA%3D%3D	https://fi.impawatt.com/se_archMeasures/show/4Ik1DOLsjzGsl71thCvbzFX225g%3D	https://fr.impawatt.com/se_archMeasures/show/HksDwxfwVAtOitnafMXGwiVtM%3D	https://ch.impawatt.com/s_earchMeasures/show/bVqIw0f40f2bzPzMBGf30gm7Nw%3D	https://de.impawatt.com/s_earchMeasures/show/OridMirv2D738AahCwDdoMpiJ%3D	https://at.impawatt.com/s_earchMeasures/show/tzjCGSui11T1hTYHe0m-0W1rIA%3D%3D	https://it.impawatt.com/se_archMeasures/show/VAZ0TYQuvgpdsOGiaNeagjrQII%3D
64	D2.2	5.4.2	Hydraulic balance (static and dynamic)	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/OICcDWg4vftfcl-5f5ZKQOQj%3D%3D	https://fi.impawatt.com/se_archMeasures/show/5JKGpCSYXAM8P_DcvRi6P5msfF%3D	https://fr.impawatt.com/se_archMeasures/show/E234gCPh8BwXcNaCYRsdz9DM7c%3D	https://ch.impawatt.com/s_earchMeasures/show/NwhjGL9F_ZNfpYbZDFH8Ggl%3D	https://de.impawatt.com/s_earchMeasures/show/h5hzmzCN1vLk5BkftM5WJ40v%3D	https://at.impawatt.com/s_earchMeasures/show/1QH0zOeP2EC0871ua9_McLmLJA%3D%3D	https://it.impawatt.com/se_archMeasures/show/NSFgeTNj5ps0x8k-auWjD2HL0%3D
65	D2.2	5.4.3	Optimization : Low delta T Syndrome - return flow temperature - through control	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/FTYbq0c-nbCM0wtsmYhyaGNubig%3D	https://fi.impawatt.com/se_archMeasures/show/JRR-bB-GHllwBcWVimsApldrwao%3D	https://fr.impawatt.com/se_archMeasures/show/i5_nIKzizyQ5c6nAd0YxBOQS%3D	https://ch.impawatt.com/s_earchMeasures/show/bNrr5CioEuleU446zPIQvRcfU%3D	https://de.impawatt.com/s_earchMeasures/show/TNwZB7Kvmq7nUeKNI1owOAZ%3D	https://at.impawatt.com/s_earchMeasures/show/OeFHInW3_1pzg6EImeFRHDlsg%3D%3D	https://it.impawatt.com/se_archMeasures/show/WfF5emTiC5h8dlNmBlInq44XD0%3D
66	D2.2	6.1.1	Ecodriving	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/ETHv16v5dlLK_ofmuLHOzO5xw%3D%3D	https://fi.impawatt.com/se_archMeasures/show/yOSRAIbqADUAcCoChFMh5kUcA%3D	https://fr.impawatt.com/se_archMeasures/show/-YHcr4etneVP0lbn8j-uYUjMw%3D%3D	https://ch.impawatt.com/s_earchMeasures/show/KMQULvChFhYnXkVXNj4l0aiAe%3D	https://de.impawatt.com/s_earchMeasures/show/1xqR8GmZf1TvNruvcp91cPn0w%3D	https://at.impawatt.com/s_earchMeasures/show/Kw-MARn-g1J15DbQh9X1FSJoFMI%3D	https://it.impawatt.com/se_archMeasures/show/s2QlgnI03BIm55-c-40m57zY%3D
67	D2.2	6.1.2	Alternative mobility - electrics cars	Factsheet	Word	https://eu.impawatt.com/s_earchMeasures/show/kBrrnBYFvCvXepj5mwdUvdbvr%3D%3D	https://fi.impawatt.com/se_archMeasures/show/DDnMdlXxrjll1OpUrdNrymCnk%3D	https://fr.impawatt.com/se_archMeasures/show/1Nj62PY6B9X0rCPvuGw3a0ca%3D	https://ch.impawatt.com/s_earchMeasures/show/stalw4KJBLV4-UUI6kZ0tnB8%3D	https://de.impawatt.com/s_earchMeasures/show/Hy3hAsnVK79otnCehbeoDMQpc%3D	https://at.impawatt.com/s_earchMeasures/show/_8_I0Ebv-Ygl_BK71J3-Tbroef%3D	https://it.impawatt.com/se_archMeasures/show/ufYm0Y0xGqtP0hVp_A3A0wA%3D

68	D2.2	6.1.3	Carpooling	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/hSlqsJatchZuK_-DurCxdgegZw%3D%3D	https://fi.impawatt.com/searchMeasures/show/ZvQIra_YprLXcSwy1yh_eNITnQw%3D	https://fr.impawatt.com/searchMeasures/show/uHQdapCPLVgztbT4xspZGZczw%3D%3D	https://ch.impawatt.com/searchMeasures/show/Q1153Kq6POXH0173CXIXK87pe-M%3D	https://de.impawatt.com/searchMeasures/show/dVY9OslWPaD6u4IEYM9NYml_zKw%3D	https://at.impawatt.com/searchMeasures/show/ibI6imu5fDMvIGAUqQknveSqPA%3D	https://it.impawatt.com/searchMeasures/show/Ru9Wua6mK39ZGw0p0ulhaPFmX5g%3D
69	D2.2	7.1.1	Photovoltaic	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/95R3ANIXGk4ktKMolKF4lwfRXQ%3D%3D	https://fi.impawatt.com/searchMeasures/show/ypYCGK2yiPKaxfDue3Xc2YIFM0%3D	https://fr.impawatt.com/searchMeasures/show/Il7csVzxliCRRnCWsAdkmcYQVA%3D%3D	https://ch.impawatt.com/searchMeasures/show/wmXupVCr7byTIPYok0MMInn64w%3D%3D	https://de.impawatt.com/searchMeasures/show/MCK1GRceQ6BDZ40kpygmVC6L6g%3D	https://at.impawatt.com/searchMeasures/show/k8R3movFs45RtoTtnblAgFlabo%3D	https://it.impawatt.com/searchMeasures/show/VcsU2Cz7ZRIEYAcMAGDZq4_Sjso%3D
70	D2.2	7.1.2	Thermal solar	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/1FOgPdP7nDEKhf8ihE9rtKjINA%3D%3D	https://fi.impawatt.com/searchMeasures/show/wZPFNIE7DroEwIPyO3kr3mRHU%34%3D	https://fr.impawatt.com/searchMeasures/show/p9QH2CS1jgErKEzHSWR_Rvg1Hw%3D%3D	https://ch.impawatt.com/searchMeasures/show/KpEP4O4RTUSLCMt5xhF5g9gtLg%3D%3D	https://de.impawatt.com/searchMeasures/show/UzyuSB6VAGBLbGBXoS-UjKPMn5A%3D	https://at.impawatt.com/searchMeasures/show/fqJlgNwuTndnIUBSXQGXkBDL6%3D	https://it.impawatt.com/searchMeasures/show/lvOQII-NFI-l3o1It3l-fok9v4Q%3D
71	D2.2	7.1.3	Others : biomass - geothermal energy	Factsheet	Word	https://eu.impawatt.com/searchMeasures/show/zbcieM50tVvXPCUg-14plyT1kg%3D%3D	https://fi.impawatt.com/searchMeasures/show/f_rk7M29uh2143zj29-MMH4527k%3D	https://fr.impawatt.com/searchMeasures/show/6wOfIXDuYwGCKu8RMJoouH0cwr%3D%3D	https://ch.impawatt.com/searchMeasures/show/Oh35fykCTip9kYjwigh48TCeg%3D%3D	https://de.impawatt.com/searchMeasures/show/WNJ4kmEz9bvWcDTAFcVlWXIE5ny%3D	https://at.impawatt.com/searchMeasures/show/M5IAIYICQ2sdb1vWaccjeBdjf5Y%3D	https://it.impawatt.com/searchMeasures/show/ccc_HDykp-Rerns3EnWuFiDdGg8%3D