

HESA calculated data items specification

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Please note, the data items below are automatically calculated in the webform as a sum of other data items. However, if one of the component fields is left blank, the automatic calculation cannot complete and the item will remain blank (null). Similarly, ratios cannot be calculated where one or more of the component parts of the calculation remain blank (null). In these situations, the override function should be used to fill in the aggregated figure. Providers should ensure that they do not complete data items within the form with a zero value where the data is not known in order to make the calculation run. Within EMR there is an important distinction between a null value (blank) and a zero:

Null data - are data items for which a value may exist but you do not know the value or have chosen not to return it. Where you have data items that meet this definition they should simply be left blank and not completed. This may mean that automatic calculations within the form cannot run and in such cases the provider should override the calculated data item if appropriate.

Zero data - are data items for which you know the value and the value is zero or for the data items that are not applicable to your provider. For such data items a '0' should be returned.

For example:

Total teaching and research staff FTE (SFTERET) is the sum of Teaching Staff FTE (SFFTETE) and Research Staff FTE (SFFTERE). If the provider cannot provide the breakdown of teaching and research staff separately the Teaching Staff FTE and Research Staff FTE fields would be blank (null). This would mean that the Total teaching and research staff FTE cannot be calculated and would also remain blank (null) in the webform. If the provider knows the total value they should use the override function for the total and enter the appropriate figure.

Finance

Data Item	Description	Calculation
FNRPCO	Non-residential property costs	FNRRV Non-residential rateable value + FNRRP Non-residential rates paid + FNRIPCO Non-residential insurance premiums and contributions + FNRRNSCM Non-residential net service charge and miscellaneous PFI and PPP costs + FNRECTOT Non-residential energy costs total + FNRSCT Non-residential water & sewerage costs total + FNRRMCT Non-residential repairs and maintenance costs total + FNRCCT Non-residential cleaning costs total + FNRIIPMC Non-residential Internally-incurred property management costs + FNREPPMC Non-residential Externally-provided property management costs
FRPCO	Residential property costs	FRIPCO Residential insurance premiums and contributions + FRNSCM Residential net service charge and miscellaneous PFI and PPP costs + FRECTOT Residential energy costs total + FRWSCT Residential water and sewerage costs total + FRRMCT Residential repairs and maintenance costs total + FRCT Residential cleaning costs total + FRIPMC Residential Internally-incurred property management costs + grounds FRPPMC Residential Externally-provided property management costs
FTPCO	Total property costs	FNRPCO Non-residential property costs + FRPCO Residential property costs
FIPCOT	Total insurance premiums and contributions	FNRIPCO Non-residential insurance premiums and contributions + FRIPCO Residential insurance premiums and contributions
FNSCTM	Total net service charge and miscellaneous PFI and PPP costs	FNRRNSCM Non-residential net service charge and miscellaneous PFI and PPP costs + FRNSCM Residential net service charge and miscellaneous PFI and PPP costs

FNRECTOT	Non-residential energy costs total	FNRECOIL Non-residential energy costs oil + FNRECGAS Non-residential energy costs gas + FNRECELE Non-residential energy costs electricity + FNRECCOA Non-residential energy costs coal (industrial) + FNRECSHW Non-residential energy costs steam and hot water + FNRECBIO Non-residential energy costs biomass + FNRECPHO Non-residential energy costs onsite photovoltaic + FNRECOWI Non-residential energy costs onsite wind + FNRECOTH Non-residential energy costs other
FRECTOT	Residential energy costs total	FRECOIL Residential energy costs oil + FRECGAS Residential energy costs gas + FRECELE Residential energy costs electricity + FRECCOA Residential energy costs coal (industrial) + FRECSHW Residential energy costs steam and hot water + FRECBIO Residential energy costs biomass + FRECPHO Residential energy costs onsite photovoltaic + FRECOWI Residential energy costs onsite wind + FRECOTH Residential energy costs other
FECOILT	Total energy costs oil	FNRECOIL Non-residential energy costs oil + FRECOIL Residential energy costs oil
FECGAST	Total energy costs gas	FNRECGAS Non-residential energy costs gas + FRECGAS Residential energy costs gas
FECELET	Total energy costs electricity	FNRECELE Non-residential energy costs electricity + FRECELE Residential energy costs electricity
FECCOAT	Total energy costs coal (industrial)	FNRECCOA Non-residential energy costs coal (industrial) + FRECCOA Residential energy costs coal (industrial)
FECSHWT	Total energy costs steam and hot water	FNRECSHW Non-residential energy costs steam and hot water + FRECSHW Residential energy costs steam and hot water
FECBIOT	Total energy costs biomass	FNRECBIO Non-residential energy costs biomass + FRECBIO Residential energy costs biomass
FECPHOT	Total energy costs onsite photovoltaic	FNRECPHO Non-residential energy costs onsite photovoltaic + FRECPHO Residential energy costs onsite photovoltaic
FECOWIT	Total energy costs onsite wind	FNRECOWI Non-residential energy costs onsite wind + FRECOWI Residential energy costs onsite wind
FECOTHT	Total energy costs other fuels	FNRECOTH Non-residential energy costs other + FRECOTH Residential energy costs other
FECTOT	Total energy costs	FNRECTOT Non-residential energy costs total + FRECTOT residential energy costs total
FNRWSC	Non-residential water and sewerage costs total	FNRWC Water costs Total Non-Residential + FNRSC Non-residential sewerage costs
FRWSC	Residential water and sewerage costs total	FRWC Residential water costs + FRSC Residential sewerage costs
FWCT	Total water costs	FNRWC Non-residential water costs + FRWC Residential water costs
FSCT	Total sewerage costs	FNRSC Non-residential sewerage costs + FRSC Residential sewerage costs
FWSC	Total water & sewerage costs	FNRWSC Non-residential water and sewerage costs total + FRWSC Residential water and sewerage costs total
FRMCGT	Total repairs and maintenance costs grounds	FNRRMCG Non-residential repairs and maintenance costs grounds + FRRMCG Residential repairs and maintenance costs grounds
FRMCPFT	Total repairs and maintenance costs playing fields	FNRRMCPF Non-residential repairs and maintenance costs playing fields + FRRMCPF Residential repairs and maintenance costs playing fields
FRMCT	Total repairs and maintenance costs	FNRRMCT Non-residential repairs and maintenance costs total + FRRMCT Residential repairs and maintenance costs total
FNRCCCT	Non-residential cleaning costs total	FNRCCEIN Non-residential cleaning costs internal + FNRCCEX Non-residential cleaning costs external
FRCCCT	Residential cleaning costs total	FRCCIN Residential cleaning costs internal + FRCCCEX Residential cleaning costs external
FCCINT	Total cleaning costs internal	FNRCCEIN Non-residential cleaning costs internal + FRCCIN Residential cleaning costs internal
FCCEXT	Total cleaning costs external	FNRCCEX Non-residential cleaning costs external + FRCCCEX Residential cleaning costs external
FCCT	Total cleaning costs	FNRCCT Non-residential cleaning costs total + FRCCCT Residential cleaning costs total
FIIPMCT	Total Internally-incurred property management costs	FNRIIPMC Non-residential Internally-incurred property management costs + FRIIPMC Residential Internally-incurred property management costs

FEPPMCT	Total Externally-provided property management costs	FNREPPMC Non-residential Externally-provided property management costs + FRPPMC Residential Externally-provided property management costs
FSCOT	Total security costs	FNRSKO Non-residential security costs + FRSKO Residential security costs
FPOCT	Total portorage costs	FNRPCK Non-residential portorage costs + FRPKC Residential portorage costs
FPRIDSC	Total central post room and internal distribution services costs	FNRPIDSC Non-residential central post room and internal distribution services costs + FRPIDSC Residential central post room and internal distribution services costs

Student and staff counts

Data Item	Description	Real Name Calculation
STSHT	Total student headcount	STSHTESH Teaching student headcount + STSHRESH Research student headcount + STSHFESH FE student headcount
STFTET	Total student FTE	STFTETE Teaching student FTE + STFTERE Research student FTE + STFTEFE FE student FTE
SFTERET	Total teaching and research staff FTE	SFFTETE Teaching staff FTE + SFFTERE Research staff FTE
SSFTET	Support staff FTE	SSFTEOF Support offices staff FTE + SSFTEOT Support not offices staff FTE
SFNRT	Non-residential staff FTE total	SFTERET Total teaching and research staff FTE + SSFTEET Support staff FTE + SFNRO Non-residential FTE other
SFFTET	Total staff FTE	SFRFTET Residential staff FTE + SFNRT Non-residential staff FTE total

Space measurement

Data Item	Description	Real Name Calculation
SMGIAT	Total GIA	SMGIANR Non-residential GIA + SMGIAR Residential GIA
SMNIATET	Teaching NIA total	SMNIATEO Teaching offices NIA + SMNIATE Teaching not offices NIA
SMNIARET	Research NIA total	SMNIAREO Research offices NIA + SMNIARE Research not offices NIA
SMNIAST	Support NIA total	SMNIASO Support offices NIA + SMNIAS Support not offices NIA
SMNIANRT	Non-residential NIA total	SMNIATET Teaching NIA total + SMNIARET Research NIA total + SMNIAST Support NIA total + SMNIANRV Non-residential NIA vacant + SMNIANRO Non-residential NIA other
SMNIAT	Total NIA	SMNIANRT Non-residential NIA total + SMNIAR Residential NIA
SMSAA	Total specialist academic area	SMTESAA Teaching not offices specialist academic area + SMRESAA Research not offices specialist academic area

Buildings and functionality

Data Item	Description	Real Name Calculation
BNOBT	Total number of buildings	BNRNOB Non-residential number of buildings + BRNOB Residential number of buildings
BTIRV	Total insurance replacement value	BNRIRV Non-residential insurance replacement value + BRIRV Residential insurance replacement value
BLBCT	Total listed building coverage	BNRLBC Non-residential listed building coverage + BRLBC Residential listed building coverage
BNCPS	Total number of car parking spaces	BNRNCPS Non-residential number of car parking spaces + BRNCPS Residential number of car parking spaces

Environment, energy, emissions and waste

Data Item	Description	Real Name Calculation
EECTOT	Total energy consumption	EECBUOIL Energy consumption burning oil + EECFUOIL Energy consumption fuel oil +

		EECGAOIL Energy consumption gas oil + EECCNGAS Energy consumption compressed natural gas + EECLNGAS Energy consumption liquefied natural gas + EECLPGAS Energy consumption liquefied petroleum gas + EECNGSEX Energy consumption natural gas excluding that used as input for a CHP unit + EECELCHP Energy consumption electricity consumed from onsite CHP + EECOPGAS Energy consumption other petroleum gas + EEGELEC Energy consumption grid electricity + EECCOALI Energy consumption coal (industrial) + EECSHWAT Energy consumption steam and hot water + EECBIOFU Energy consumption biofuels + EECLUBRI Energy consumption lubricants + EECHECHP Energy consumption heat consumed from onsite CHP + EEPCOKE Energy consumption petroleum coke + EECBIOA Energy consumption biomass + EECONPHO Energy consumption onsite photovoltaic + EECONWIN Energy consumption onsite wind + EECOTONR Energy consumption other onsite renewables
EFUVTOT	Total fuel used in HEI owned vehicles	EFUVAVSP Fuel used in HEI owned vehicles aviation spirit + EFUVAVTF Fuel used in HEI owned vehicles aviation turbine fuel + EFUVBIOF Fuel used in HEI owned vehicles biofuels + EFUVDIES Fuel used in HEI owned vehicles diesel + EFUVLPGA Fuel used in HEI owned vehicles liquefied petroleum gas + EFUVPETR Fuel used in HEI owned vehicles petrol
EWCONTOT	Total water consumption	ENRWCON Non-residential water consumption + ERWCON Residential water consumption
E12CET	Total scope 1 and 2 carbon emissions	E12CEBO Scope 1 and 2 carbon emissions burning oil [Calculation based on EECBUOIL multiplied by DEFRA conversion factor] + E12CEFOI Scope 1 and 2 carbon emissions fuel oil [Calculation based on EECFUOIL multiplied by DEFRA conversion factor] + E12CEGOI Scope 1 and 2 carbon emissions gas oil [Calculation based on EECGAOIL multiplied by DEFRA conversion factor] + E12CECNG Scope 1 and 2 carbon emissions compressed natural gas [Calculation based on EECCNGAS multiplied by DEFRA conversion factor] + E12CELNG Scope 1 and 2 carbon emissions liquefied natural gas [Calculation based on EECLNGAS multiplied by DEFRA conversion factor] + E12CELPG Scope 1 and 2 carbon emissions liquefied petroleum gas [Calculation based on EECLPGAS multiplied by DEFRA conversion factor] + E12CELUB Scope 1 and 2 carbon emissions lubricants [Calculation based on EECLUBRI multiplied by DEFRA conversion factor] + E12CENGAS Scope 1 and 2 carbon emissions natural gas [Calculation based on EECNGSEX and EECNGCHP multiplied by DEFRA conversion factor] + E12CEOPG Scope 1 and 2 carbon emissions other petroleum gas [Calculation based on EECOPGAS multiplied by DEFRA conversion factor] + E12CEGE Scope 1 and 2 carbon emissions grid electricity [Calculation based on EEGELEC multiplied by DEFRA conversion factor] + E12CECIN Scope 1 and 2 carbon emissions coal (industrial) [Calculation based on EECCOALI multiplied by DEFRA conversion factor] + E12CESHW Scope 1 and 2 carbon emissions steam and hot water [Calculation based on EECSHWAT multiplied by DEFRA conversion factor] + E12CEBF Scope 1 and 2 carbon emissions biofuels [Calculation based on EECBIOFU multiplied by DEFRA conversion factor] + E12CEPCO Scope 1 and 2 carbon emissions petroleum coke [Calculation based on EECPCOKE multiplied by DEFRA conversion factor] + E12CEBM Scope 1 and 2 carbon emissions biomass [Calculation based on EECBIOA multiplied by DEFRA conversion factor] + E12CEOPH Scope 1 and 2 carbon emissions onsite photovoltaic + E12CEOW Scope 1 and 2 carbon emissions onsite wind + E12CEORO Scope 1 and 2 carbon emissions other onsite renewables [Calculation based on EECOTONR multiplied by DEFRA conversion factor] + E12CEVAS Scope 1 and 2 carbon emissions vehicles aviation spirit [Calculation based on EFUVAVSP multiplied by DEFRA conversion factor] + E12CEVAT Scope 1 and 2 carbon emissions vehicles aviation turbine fuel [Calculation based on EFUVAVT multiplied by DEFRA conversion factor] + E12CEVB Scope 1 and 2 carbon emissions vehicles biofuels [Calculation based on EFUVBIOF multiplied by DEFRA conversion factor] + E12CEVD Scope 1 and 2 carbon emissions vehicles diesel [Calculation based on EFUVDIES multiplied by DEFRA conversion factor] + E12CEVLG Scope 1 and 2 carbon emissions vehicles liquefied petroleum gas [Calculation based on EFUVLPGA multiplied by DEFRA conversion factor] +

		E12CEVPE Scope 1 and 2 carbon emissions vehicles petrol [Calculation based on EFUVPETR multiplied by DEFRA conversion factor]
EVWWT	Total volume of wastewater	ENRVWW Non-residential volume of wastewater + ERVWW Residential volume of wastewater
E3CEWT	Total scope 3 carbon emissions from waste	E3NRCEW Non-residential scope 3 carbon emissions from waste + E3RCEW Residential scope 3 carbon emissions from waste
E3CEWST	Total scope 3 carbon emissions from water supply	E3NRCEWS Non-residential scope 3 carbon emissions from water supply + E3RCEWS Residential scope 3 carbon emissions from water supply
ENRWMT	Non-residential waste mass total	ENRWMREC Non-residential waste mass recycled + ENRWMINC Non-residential waste mass incineration + ENRWMCOM Non-residential waste mass composting + ENRWMADI Non-residential waste mass anaerobic digestion + ENRWMLAN Non-residential waste mass landfill + ENRWMENE Non-residential waste mass used to create energy + ENRWMOTH Non-residential waste mass other
ERWMT	Residential waste mass total	ERWMREC Residential waste mass recycled + ERWMINC Residential waste mass incineration + ERWMCOM Residential waste mass composting + ERWMADI Residential waste mass anaerobic digestion + ERWMLAN Residential waste mass landfill + ERWMENE Residential waste mass used to create energy + ERWMOTH Residential waste mass other
EOWMT	Other works waste mass total	EOWMREC Other works waste mass recycled + EOWMINC Other works waste mass incineration + EOWMCOM Other works waste mass composting + EOWMADI Other works waste mass anaerobic digestion + EOWMLAN Other works waste mass landfill + EOWMENE Other works waste mass used to create energy + EOWMOTH Other works waste mass other
EWMRECT	Total waste mass recycled	ENRWMREC Non-residential waste mass recycled + ERWMREC Residential waste mass recycled + EOWMREC Other works waste mass recycled
EWMINCT	Total waste mass incineration	ENRWMINC Non-residential waste mass incineration + ERWMINC Residential waste mass incineration + EOWMINC Other works waste mass incineration
EWMCOMT	Total waste mass composting	ENRWMCOM Non-residential waste mass composting + ERWMCOM Residential waste mass composting + EOWMCOM Other works waste mass composting
EWMADIT	Total waste mass anaerobic digestion	ENRWMADI Non-residential waste mass anaerobic digestion + ERWMADI Residential waste mass anaerobic digestion + EOWMADI Other works waste mass anaerobic digestion
EWMLANT	Total waste mass landfill	ENRWMLAN Non-residential waste mass landfill + ERWMLAN Residential waste mass landfill + EOWMLAN Other works waste mass landfill
EWMENET	Total waste mass used to create energy	ENRWMENE Non-residential waste mass used to create energy + ERWMENE Residential waste mass used to create energy + EOWMENE Other works waste mass used to create energy
EWMOTHHT	Total waste mass other	ENRWMOTH Non-residential waste mass other + ERWMOTH Residential waste mass other + EOWMOTH Other works waste mass other
EWMT	Total waste mass	ENRWMT Non-residential waste mass total + ERWMT Residential waste mass total + EOWMT Other works waste mass total