



International
Carbon
Registry

ICR approved methodologies

Summary

All projects validated and verified against an approved methodology are accepted for ICR if projects conform to current version of the ICR requirement document and the current version of the applied methodology. Approved methodologies are listed in this document

ICR approved methodologies

Version no.	3.0
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Sectoral Scope	Methodology reference	Title
1	ACM0001	Flaring or use of landfill gas
1	ACM0002	Grid-connected electricity generation from renewable sources
1	ACM0003	Partial substitution of fossil fuels in cement or quicklime manufacture
1	ACM0006	Electricity and heat generation from biomass
1	ACM0007	Conversion from single cycle to combined cycle power generation
1	ACM0008	Abatement of methane from coal mines
1	ACM0009	Fuel switching from coal or petroleum fuel to natural gas
1	ACM0011	Fuel switching from coal and/or petroleum fuels to natural gas in existing power plants for electricity generation
1	ACM0012	Waste energy recovery
1	ACM0013	Construction and operation of new grid connected fossil fuel fired power plants using a less GHG intensive technology
1	ACM0014	Treatment of wastewater
1	ACM0017	Production of Biofuel
1	ACM0018	Electricity generation from biomass in power-only plants
1	ACM0020	Co-firing of biomass residues for heat generation and/or electricity generation in grid connected power plants
1	ACM0022	Alternative waste treatment processes
1	ACM0023	Introduction of an efficiency improvement technology in a boiler
1	ACM0024	Natural gas substitution by biogenic methane produced from the anaerobic digestion of organic waste
1	ACM0025	Construction of a new natural gas power plant
1	ACM0026	Fossil fuel based cogeneration for identified recipient facility(ies)
1	AM0007	Analysis of the least-cost fuel option for seasonally-operating biomass cogeneration plants
1	AM0009	Recovery and utilization of gas from oil fields that would otherwise be flared or vented
1	AM0019	Renewable energy projects replacing part of the electricity production of one single fossil fuel fired power plant that stands alone or supplies to a grid, excluding biomass projects
1	AM0026	Methodology for zero-emissions grid-connected electricity generation from renewable sources in Chile or in countries with merit order based dispatch grid
1	AM0036	Use of biomass in heat generation equipment
1	AM0044	Energy efficiency improvement projects - boiler rehabilitation or replacement in industrial and district heating sectors
1	AM0045	Grid connection of isolated electricity systems
1	AM0048	New cogeneration project activities supplying electricity and heat to multiple costumers
1	AM0049	Methodology for gas based energy generation in an industrial facility
1	AM0052	Increased electricity generation from existing hydropower stations through Decision Support System optimization
1	AM0053	Biogenic methane injection to a natural gas distribution grid
1	AM0055	Recovery and utilization of waste gas in refinery or gas plant
1	AM0056	Efficiency improvement by boiler replacement or rehabilitation and optional fuel switch in fossil fuel-fired steam boiler systems
1	AM0058	Introduction of a new primary district heating system

Sectoral Scope	Methodology reference	Title
1	AM0061	Methodology for rehabilitation and/or energy efficiency improvement in existing power plants
1	AM0062	Energy efficiency improvements of a power plant through retrofitting turbines
1	AM0064	Capture and utilization or destruction of mine methane (excluding coal mines) or non mine methane
1	AM0072	Fossil Fuel Displacement by Geothermal Resources for Space Heating
1	AM0074	Methodology for new grid connected power plants using permeate gas previously flared and/or vented
1	AM0075	Methodology for collection, processing and supply of biogas to end-users for production of heat
1	AM0076	Implementation of fossil fuel trigeneration systems in existing industrial facilities
1	AM0077	Recovery of gas from oil wells that would otherwise be vented or flared and its delivery to specific end-users
1	AM0081	Flare or vent reduction at coke plants through the conversion of their waste gas into dimethyl ether for use as a fuel
1	AM0084	Installation of cogeneration system supplying electricity and chilled water to new and existing consumers
1	AM0091	Energy efficiency technologies and fuel switching in new buildings
1	AM0094	Distribution of biomass based stove and/or heater for household or institutional use
1	AM0095	Waste gas based combined cycle power plant in a Greenfield iron and steel plant
1	AM0098	Utilization of ammonia-plant off gas for steam generation
1	AM0099	Installation of a new natural gas fired gas turbine to an existing CHP plant
1	AM0100	Integrated Solar Combined Cycle (ISCC) projects
1	AM0103	Renewable energy power generation in isolated grids
1	AM0104	Interconnection of electricity grids in countries with economic merit order dispatch
1	AM0107	New natural gas based cogeneration plant
1	AM0108	Interconnection between electricity systems for energy exchange
1	AM0112	Less carbon intensive power generation through continuous reductive distillation of waste
1	AM0117	Introduction of a new district cooling system
1	AMS-I.A.	Electricity generation by the user
1	AMS-I.B.	Mechanical energy for the user with or without electrical energy
1	AMS-I.C.	Thermal energy production with or without electricity
1	AMS-I.D.	Grid connected renewable electricity generation
1	AMS-I.F.	Renewable electricity generation for captive use and mini-grid
1	AMS-I.G.	Plant oil production and use for energy generation in stationary applications
1	AMS-I.H.	Biodiesel production and use for energy generation in stationary applications
1	AMS-I.I.	Biogas/biomass thermal applications for households/small users
1	AMS-I.J.	Solar water heating systems (SWH)
1	AMS-I.K.	Solar cookers for households
1	AMS-I.L.	Electrification of rural communities using renewable energy
1	AMS-I.M	Solar power for domestic aircraft at-gate operations
1	AMS-II.B.	Supply side energy efficiency improvements – generation
1	AMS-II.H.	Energy efficiency measures through centralization of utility provisions of an industrial facility

Sectoral Scope	Methodology reference	Title
1	AMS-II.K.	Installation of co-generation or tri-generation systems supplying energy to commercial building
1	AMS-II.Q.	Energy efficiency and/or energy supply projects in commercial buildings
1	AMS-III.AC.	Electricity and/or heat generation using fuel cell
1	AMS-III.AE.	Energy efficiency and renewable energy measures in new residential buildings
1	AMS-III.AG.	Switching from high carbon intensive grid electricity to low carbon intensive fossil fuel
1	AMS-III.AH.	Shift from high carbon intensive fuel mix ratio to low carbon-intensive fuel mix ratio
1	AMS-III.AL.	Conversion from single cycle to combined cycle power generation
1	AMS-III.AM.	Fossil fuel switch in a cogeneration/trigeneration system
1	AMS-III.AR.	Substituting fossil fuel based lighting with LED/CFL lighting systems
1	AMS-III.B.	Switching fossil fuels
1	AMS-III.BI.	Flare gas recovery in gas treating facilities
1	AMS-III.BJ.	Destruction of hazardous waste using plasma technology including energy recovery
1	AMS-III.BL.	Integrated methodology for electrification of communities
1	AMS-III.H.	Methane recovery in wastewater treatment
1	AMS-III.P.	Recovery and utilization of waste gas in refinery facilities
1	AMS-III.W.	Methane capture and destruction in non-hydrocarbon mining activities
2	AM0035	SF6 emission reductions in electrical grids
2	AM0067	Methodology for installation of energy efficient transformers in a power distribution grid
2	AM0097	Installation of high voltage direct current power transmission line
2	AM0118	Introduction of low resistivity power transmission line
2	AMS-II.A.	Supply side energy efficiency improvements – transmission and distribution
2	AMS-II.T	Emission reduction through reactive power compensation in power distribution network
2	AMS-III.AS.	Switch from fossil fuel to biomass in existing manufacturing facilities for non-energy applications
2	AMS-III.AW.	Electrification of rural communities by grid extension
2	AMS-III.BB.	Electrification of communities through grid extension or construction of new mini-grids
3	AM0017	Steam system efficiency improvements by replacing steam traps and returning condensate
3	AM0018	Baseline methodology for steam optimization systems
3	AM0020	Baseline methodology for water pumping efficiency improvements
3	AM0046	Distribution of efficient light bulbs to households
3	AM0060	Power saving through replacement by energy efficient chillers
3	AM0070	Manufacturing of energy efficient domestic refrigerators
3	AM0086	Distribution of low greenhouse gas emitting water purification systems for safe drinking water
3	AM0091	Energy efficiency technologies and fuel switching in new buildings
3	AM0105	Energy efficiency in data centers through dynamic power management
3	AM0113	Distribution of compact fluorescent lamps (CFL) and light-emitting diode (LED) lamps to households
3	AM0120	Energy-efficient refrigerators and air-conditioners
3	AMS-II.C.	Demand-side energy efficiency activities for specific technologies
3	AMS-II.D.	Energy efficiency and fuel switching measures for industrial facilities

Sectoral Scope	Methodology reference	Title
3	AMS-II.E.	Energy efficiency and fuel switching measures for buildings
3	AMS-II.F.	Energy efficiency and fuel switching measures for agricultural facilities and activities
3	AMS-II.G.	Energy efficiency measures in thermal applications of non-renewable biomass
3	AMS-II.J.	Demand-side activities for efficient lighting technologies
3	AMS-II.L.	Demand-side activities for efficient outdoor and street lighting technologies
3	AMS-II.M.	Demand-side energy efficiency activities for installation of low-flow hot water savings devices
3	AMS-II.N.	Demand-side energy efficiency activities for installation of energy efficient lighting and/or controls in buildings
3	AMS-II.O.	Dissemination of energy efficient household appliances
3	AMS-II.P.	Energy efficient pump-set for agriculture use
3	AMS-II.Q.	Energy efficiency and/or energy supply projects in commercial buildings
3	AMS-II.R.	Energy efficiency space heating measures for residential buildings
3	AMS-II.S.	Energy efficiency in motor systems
3	AMS-III.AE.	Energy efficiency and renewable energy measures in new residential buildings
3	AMS-III.AV.	Low greenhouse gas emitting safe drinking water production systems
3	AMS-III.V.	Decrease of coke consumption in blast furnace by installing dust/sludge recycling system in steel works
3	AMS-III.X.	Energy Efficiency and HFC-134a Recovery in Residential Refrigerators
4	ACM0003	Partial substitution of fossil fuels in cement or quicklime manufacture
4	ACM0005	Increasing the blend in cement production
4	ACM0009	Fuel switching from coal or petroleum fuel to natural gas
4	ACM0012	Waste energy recovery
4	ACM0015	Emission reductions from raw material switch in clinker production
4	ACM0021	Reduction of emissions from charcoal production by improved kiln design and/or abatement of methane
4	AM0036	Use of biomass in heat generation equipment
4	AM0106	Energy efficiency improvements of a lime production facility through installation of new kilns
4	AM0121	Emission reduction from partial switching of raw materials and increasing the share of additives in the production of blended cement
4	AMS-II.D.	Energy efficiency and fuel switching measures for industrial facilities
4	AMS-II.I.	Efficient utilization of waste energy in industrial facilities
4	AMS-III.AD.	Emission reductions in hydraulic lime production
4	AMS-III.AN.	Fossil fuel switch in existing manufacturing industries
4	AMS-III.BD.	GHG emission reduction due to supply of molten metal instead of ingots for aluminium castings
4	AMS-III.BG.	Emission reduction through sustainable charcoal production and consumption
4	AMS-III.Q.	Waste energy recovery
4	AMS-III.Z.	Fuel Switch, process improvement and energy efficiency in brick manufacture
5	ACM0017	Production of biofuel
5	ACM0019	N2O abatement from nitric acid production
5	AM0021	Baseline Methodology for decomposition of N2O from existing adipic acid production plants

Sectoral Scope	Methodology reference	Title
5	AM0027	Substitution of CO2 from fossil or mineral origin by CO2 from renewable sources in the production of inorganic compounds
5	AM0028	N2O destruction in the tail gas of Caprolactam production plants
5	AM0050	Feed switch in integrated Ammonia-urea manufacturing industry
5	AM0057	Avoided emissions from biomass wastes through use as feed stock in pulp and paper, cardboard, fiberboard or bio-oil production
5	AM0063	Recovery of CO2 from tail gas in industrial facilities to substitute the use of fossil fuels for production of CO2
5	AM0069	Biogenic methane use as feedstock and fuel for town gas production
5	AM0081	Flare or vent reduction at coke plants through the conversion of their waste gas into dimethyl ether for use as a fuel
5	AM0098	Utilization of ammonia-plant off gas for steam generation
5	AM0114	Shift from electrolytic to catalytic process for recycling of chlorine from hydrogen chloride gas in isocyanate plants
5	AM0115	Recovery and utilization of coke oven gas from coke plants for LNG production
5	AMS-I.H.	Biodiesel production and use for energy generation in stationary applications
5	AMS-III.AC.	Electricity and/or heat generation using fuel cell
5	AMS-III.AI.	Emission reductions through recovery of spent sulphuric acid
5	AMS-III.AK.	Biodiesel production and use for transport applications
5	AMS-III.J.	Avoidance of fossil fuel combustion for carbon dioxide production to be used as raw material for industrial processes
5	AMS-III.K.	Avoidance of methane release from charcoal production
5	AMS-III.M.	Reduction in consumption of electricity by recovering soda from paper manufacturing process
5	AMS-III.O.	Hydrogen production using methane extracted from biogas
6	AMS-III.BH.	Displacement of production of brick and cement by manufacture and installation of gypsum concrete wall panels
7	ACM0016	Mass Rapid Transit Projects
7	AM0031	Bus rapid transit projects
7	AM0090	Modal shift in transportation of cargo from road transportation to water or rail transportation
7	AM0101	High speed passenger rail systems
7	AM0110	Modal shift in transportation of liquid fuels
7	AM0116	Electric taxiing systems for airplanes
7	AMS-I.M	Solar power for domestic aircraft at-gate operations
7	AMS-III.AA.	Transportation Energy Efficiency Activities using Retrofit Technologies
7	AMS-III.AK.	Biodiesel production and use for transport applications
7	AMS-III.AP.	Transport energy efficiency activities using post - fit Idling Stop device
7	AMS-III.AQ.	Introduction of Bio-CNG in transportation applications
7	AMS-III.AT.	Transportation energy efficiency activities installing digital tachograph systems to commercial freight transport fleets
7	AMS-III.AY.	Introduction of LNG buses to existing and new bus routes
7	AMS-III.BC.	Emission reductions through improved efficiency of vehicle fleets

Sectoral Scope	Methodology reference	Title
7	AMS-III.BM.	Lightweight two and three wheeled personal transportation
7	AMS-III.BN.	Efficient operation of public transportation
7	AMS-III.BO.	Trip avoidance through equipment improvement of freight transport
7	AMS-III.BP.	Emission reduction by shore-side electricity supply system
7	AMS-III.C.	Emission reductions by electric and hybrid vehicles
7	AMS-III.S.	Introduction of low-emission vehicles/technologies to commercial vehicle fleets
7	AMS-III.T.	Plant oil production and use for transport applications
7	AMS-III.U.	Cable Cars for Mass Rapid Transit System (MRTS)
8	ACM0008	Abatement of methane from coal mines
8	ACM0017	Production of biofuel
8	AM0064	Capture and utilization or destruction of mine methane (excluding coal mines) or non mine methane
8	AMS-III.W.	Methane capture and destruction in non-hydrocarbon mining activities
9	AM0030	PFC emission reductions from anode effect mitigation at primary aluminum smelting facilities
9	AM0038	Methodology for improved electrical energy efficiency of an existing submerged electric arc furnace used for the production of silicon and ferro alloys
9	AM0059	Reduction in GHGs emission from primary aluminum smelters
9	AM0065	Replacement of SF6 with alternate cover gas in the magnesium industry
9	AM0066	GHG emission reductions through waste heat utilization for pre-heating of raw materials in sponge iron manufacturing process
9	AM0068	Methodology for improved energy efficiency by modifying ferroalloy production facility
9	AM0082	Use of charcoal from planted renewable biomass in a new iron ore reduction system
9	AM0095	Waste gas based combined cycle power plant in a Greenfield iron and steel plant
9	AM0109	Introduction of hot supply of Direct Reduced Iron in Electric Arc Furnaces
9	AMS-III.V.	Decrease of coke consumption in blast furnace by installing dust/sludge recycling system in steel works
10	AM0009	Recovery and utilization of gas from oil fields that would otherwise be flared or vented
10	AM0023	Leak detection and repair in gas production, processing, transmission, storage and distribution systems and in refinery facilities
10	AM0037	Flare (or vent) reduction and utilization of gas from oil wells as a feedstock
10	AM0043	Leak reduction from a natural gas distribution grid by replacing old cast iron pipes or steel pipes without cathodic protection with polyethylene pipes
10	AM0055	Recovery and utilization of waste gas in refinery or gas plant
10	AM0074	Methodology for new grid connected power plants using permeate gas previously flared and/or vented
10	AM0077	Recovery of gas from oil wells that would otherwise be vented or flared and its delivery to specific end-users
10	AM0088	Air separation using cryogenic energy recovered from the vaporization of LNG
10	AM0089	Production of diesel using a mixed feedstock of gasoil and vegetable oil
10	AM0115	Recovery and utilization of coke oven gas from coke plants for LNG production
10	AMS-III.BI.	Flare gas recovery in gas treating facilities
10	AMS-III.P.	Recovery and utilization of waste gas in refinery facilities
11	AM0001	Decomposition of fluoroform (HFC-23) waste streams

Sectoral Scope	Methodology reference	Title
11	AM0035	SF6 emission reductions in electrical grids
11	AM0071	Manufacturing and servicing of domestic refrigeration appliances using a low GWP refrigerant
11	AM0078	Point of Use Abatement Device to Reduce SF6 emissions in LCD Manufacturing Operations
11	AM0079	Recovery of SF6 from Gas insulated electrical equipment in testing facilities
11	AM0092	Substitution of PFC gases for cleaning Chemical Vapor Deposition (CVD) reactors in the semiconductor industry
11	AM0096	CF4 emission reduction from installation of an abatement system in a semiconductor manufacturing facility
11	AM0111	Abatement of fluorinated greenhouse gases in semiconductor manufacturing
11	AM0119	SF6 emission reductions in gas insulated metal enclosed switchgear
11	AMS-III.AB.	Avoidance of HFC emissions in Standalone Commercial Refrigeration Cabinets
11	AMS-III.N.	Avoidance of HFC emissions in rigid Poly Urethane Foam (PUF) manufacturing
11	AMS-III.X.	Energy Efficiency and HFC-134a Recovery in Residential Refrigerators
13	ACM0001	Flaring or use of landfill gas
13	ACM0010	GHG emission reductions from manure management systems
13	ACM0014	Treatment of wastewater
13	ACM0022	Alternative waste treatment processes
13	ACM0024	Natural gas substitution by biogenic methane produced from the anaerobic digestion of organic waste
13	AM0053	Biogenic methane injection to a natural gas distribution grid
13	AM0057	Avoided emissions from biomass wastes through use as feed stock in pulp and paper, cardboard, fiberboard or bio-oil production
13	AM0073	GHG emission reductions through multi-site manure collection and treatment in a central plant
13	AM0075	Methodology for collection, processing and supply of biogas to end-users for production of heat
13	AM0080	Mitigation of greenhouse gases emissions with treatment of wastewater in aerobic wastewater treatment plants
13	AM0083	Avoidance of landfill gas emissions by in-situ aeration of landfills
13	AM0093	Avoidance of landfill gas emissions by passive aeration of landfills
13	AM0112	Less carbon intensive power generation through continuous reductive distillation of waste
13	AMS-III.AF.	Avoidance of methane emissions through excavating and composting of partially decayed municipal solid waste (MSW)
13	AMS-III.AJ.	Recovery and recycling of materials from solid wastes
13	AMS-III.AO.	Methane recovery through controlled anaerobic digestion
13	AMS-III.AQ.	Introduction of Bio-CNG in transportation applications
13	AMS-III.AX.	Methane oxidation layer (MOL) for solid waste disposal sites
13	AMS-III.BA.	Recovery and recycling of materials from E-waste
13	AMS-III.BJ.	Destruction of hazardous waste using plasma technology including energy recovery
13	AMS-III.D.	Methane recovery in animal manure management systems
13	AMS-III.E.	Avoidance of methane production from decay of biomass through controlled combustion, gasification or mechanical/thermal treatment
13	AMS-III.F.	Avoidance of methane emissions through composting

Sectoral Scope	Methodology reference	Title
13	AMS-III.G.	Landfill methane recovery
13	AMS-III.H.	Methane recovery in wastewater treatment
13	AMS-III.I.	Avoidance of methane production in wastewater treatment through replacement of anaerobic systems by aerobic systems
13	AMS-III.L.	Avoidance of methane production from biomass decay through controlled pyrolysis
13	AMS-III.O.	Hydrogen production using methane extracted from biogas
13	AMS-III.Y.	Methane avoidance through separation of solids from wastewater or manure treatment systems
14	AR-ACM0003	Afforestation and reforestation of lands except wetlands
14	AR-AM0014	Afforestation and reforestation of degraded mangrove habitats
14	AR-AMS0003	Afforestation and reforestation project activities implemented on wetlands
14	AR-AMS0007	Afforestation and reforestation project activities implemented on lands other than wetlands
14	FCC	Forest Carbon Code (Skógarkolefni)
15	ACM0010	GHG emission reductions from manure management systems
15	ACM0017	Production of biofuel
15	AM0073	GHG emission reductions through multi-site manure collection and treatment in a central plant
15	AM0089	Production of diesel using a mixed feedstock of gasoil and vegetable oil
15	AMS-I.G.	Plant oil production and use for energy generation in stationary applications
15	AMS-I.H.	Biodiesel production and use for energy generation in stationary applications
15	AMS-II.F.	Energy efficiency and fuel switching measures for agricultural facilities and activities
15	AMS-III.A.	Offsetting of synthetic nitrogen fertilizers by inoculant application in legumes-grass rotations on acidic soils on existing cropland
15	AMS-III.AK.	Biodiesel production and use for transport applications
15	AMS-III.AU.	Methane emission reduction by adjusted water management practice in rice cultivation
15	AMS-III.BE.	Avoidance of methane and nitrous oxide emissions from sugarcane pre-harvest open burning through mulching
15	AMS-III.BF.	Reduction of N₂O emissions from use of Nitrogen Use Efficient (NUE) seeds that require less fertilizer application
15	AMS-III.BK.	Strategic feed supplementation in smallholder dairy sector to increase productivity

Sectoral Scopes	
1	Energy industries (renewable - / non-renewable sources)
2	Energy distribution
3	Energy demand
4	Manufacturing industries
5	Chemical industries
6	Construction
7	Transport
8	Mining/mineral production
9	Metal production
10	Fugitive emissions from fuels (solid, oil and gas)
11	Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride
12	Solvent use
13	Waste handling and disposal
14	Afforestation and reforestation
15	Agriculture
16	Carbon Capture and Storage / Carbon Dioxide Removal