

Local Sustainable Solutions-East Africa

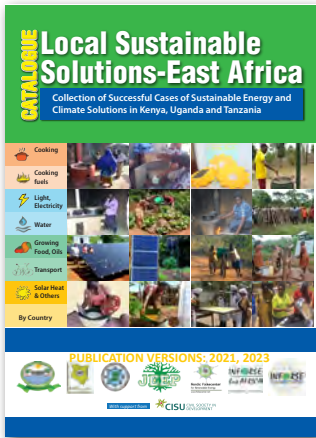
Ekatabo aha' miringo ey'okuturanye om'ensi yeitu omur'oburugobw'eizooba bwa afrika

 <p>Okuteeka</p> <p>Amakara, enku nebindi ebirikukoze sibwa okuheemba omuriro</p>				
 <p>Okumurika, Amashanyarazi</p>				
 <p>Amaizi</p>				
 <p>Okuhinga ebyokurya, Amajuta agokuteeka</p>				
 <p>Entambura</p>				
 <p>Obutagasi oburikuruga omu mushana oburikwetwa Solar</p>				
<p>Okugyenderera omumahanga</p>				



With support from





Ekatabo keine emiringo erikurenga kinana (80+) erikworeka entuura gye eihoreere nensi yeitu, omuri East Africa

Akatabo aka nikagamba omubugufu aha'miringo erikurenga kinana (80+) erikworeka entuuragey eihoreere nensi yeitu kandi hamwe nentunguuka etarikureeta entabangurika omumbeera yensi yeitu omuri Kenya, Uganda na Tanzania. Akatabo aka nikashangwa aha mukutu gwa internet narishi 'online' ah'orikubaasa okukarondoora aha mukutu ogwo, okakatuunga nka pdf. Aha mukutu, akatab'aka nikatuura nikogerwaho kandi k'oraabe oyine emiringo endijo narishi ekitebyo noyihiriza oha byoreebire ebirikubasa okwegyesya abandi entuuragey nensi yeitu noyikirizibwa okutusindikira obutumwa obwe okungira ngu bwongerwe ahakatab'aka.

Ekiyenderewa ky'akatab'aka nokutuunguura okumanywa kwe'miringo erikworeka kandi kahamisiriza entuuragey eihoreere nensi yeitu, namunoonga, emiringo ekyasingayo omu byo'kutuunga kwe'mpiha ezigyendereire okureta entuuguka atarikureeta entabangurika omumbeera

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Okwongera omukumanya kwa boona

Akatab'aka nikereka emiringo etar'emwe nemwe egyezesibwe akanshangwa erikukoora kurungi omukuyendeza obuzibu oburikureta omukukosa amajuta(peterori) amaizi, n'eb yokurya kubi omiringo erikureetera ensi yeitu okusisikara omuri East Africa. Emiringo ehandikirweho nehamisiriza entuura gye nensi yeitu etarikureeta entabangurika kandi ey'abantu boona barikubaasa okukooza etarikwetagisibwa empiha nyingi.



Emiringo ey'akab'aka karikuteisa nekyendeza enkozeesa yebihangwa, empiha ezirikwetagisibwa, obwiire kandi eyeyongera omukutereeta obugwage bwensi yeite ekyokureeberaho n'esigiri ezirikukozesa amakara maky eahamwe nenku nkye kandi esigiri ezo zikwongera zikakyendeza omwika ogurikushohozebwa waba noteeka. Emiringo endijo orituteisibwa, nebaasa okureetera abantu empiha ne tunguuka ekyokureberaho niza solar duraya narishi ebyoma ebirikwomeesa ebintu nkebyokurya nibikozeesa amaani go mushana, za greenhouses narishi enju ezirikuhingwamu zakarimagyezi, ahamwe n'ebiyoma ebindi ebirikozeesa amaani'gomushana ebirikukozesibwa omumaduuka na za workshop. Ekindi ekyokumanya aha'miringo erikuteisibwa omukatab'aka ni ngu, emiringo emwe nemanywa abantu ahakuba batuura nibagikozeesa konka, endijo ninsya terikumanywagey, kandi nobundi tehaandikirweho munonga ng'abaantu bakagimanya.

Abya'hakatabo aka: Emiringo ey'abantu ababurijo nibabaasakuzesha okugira ngu bakutuura kuringi omw'eihoreere n'ensi yabo omur'Oburugobw'eizoba bw'Afrika

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Ahamukutu gwa intaneti, akatab'aka nikashangwa aha localsolutions.inforse.org

Ebishwani ebir'omukatab'aka nibihirirwa omu kitabo ekyindi okyongerweho. Noyikirizibwa okuzesha ebihandikirwe omukatab'aka konka oyine kworeka kuwakozeesa ebihandikwo by'aka katabo.

Akatab'aka kakwozirwe ahansi yebiragiiri ebyekigombe kya East African Civil Society for Sustainable Energy and Climate Action (EASE & CA), ekigombe ekyo kikatandika kuterwa omunkora okuruga 2019 okihisya hati omuri 2023 bashagatirwe INFORSE abu Civil Society in Denmark erikuhwera okikira munonga omu by'empiha.

Ebityebyo n'emiringo ey'entuura atarikureeta obutanguriko bwe mbeera yensi byomukatab'aka byona bibasikire kukorwa ahabw'obushagiki n'obuyambi okuruga ahari bagyenzi beitu abutukwataneise nabo. Bangenzi beitu abo, nibaba; hariho Coalition for sustainable development (UCSD) hamwe na Joint Energy and Environment Projects (JEEP) omuri Uganda, twashuba twagira aba TaTEDO-Sustainable Energy Services Organization omuri Tanzania, aba SusWatch omuri Kenya, kandi hamwe n'aba Nordic Folkecenter for Renewable Energy (NFRE) abarikuruga Denmark, bakwataneise na International Network for Sustainable Energy (INFORSE), INFORSE-Europe hamwe na INFORSE East Africa.

Omukatabo, emiringo erikuteisibwa ehandikirwe omu bibiina mushanju narishi 'categories'. Ebibiina ebyo byagaruka byahurwa omubibiina ebikyere narishi 'sub-categories', okurugiirira enkora ey'omuringogwo.



Okuteeka: Ekibiin'ekyi nikishoborora esigiri hamwe n'amahega ebikozeirwe omuribyakarimagyezi okugira ngu esigiri n'amahega ago bikozeese enku nkye n'amakara make omumaka n'ebigombe nka mashomero; habamu za kuuka ezirikuzeesa amaani'gomushana narishi 'solar cooker', ebitebo ningashi ebyeibo ebikozirwe okuteeka eb yokurya otakozeise omuriro ebirikwetwa 'fireless basket cookers', ahamwe na puresha kooka ez'amashanyarazi narishi omurengereza 'electric pressure cookers'



Ebyamakara enku nebindi ebirikukozeesibwa omuriro ogwokuteeka eb yokurya: Ekibiina ekyi nikikwata ahabintunk'ebi; ebyooto enkora ensya, okukozeesa za buriketi narishi 'briquettes' hamwe nokwongera amaani omukuhinga emiti.



Ebyokuhwezeesa n'okumurika hamwe na amashanyarazi: Omunimwo turikushanga etaara ezirikuzeesa amaani'gomushana narishi 'solar lanterns', okuzeesa amaani'gomushana nkeka narishi nk'ekyaro ekirikwetwa 'solar home systems and community mini grids powering': amataara, za furigi narishi 'refrigerator', TV, amasimu, ebyoma na za mashini, pampu za maizi, okukwata gye amaizi, ahamwe nokushukyerwa ebihingwa.



Okuhinga eb yokurya: Okuhinga okw'ahaaka; emboga ezo kuguzya omubutare; ebyobuguzi bikozirwe okuruga omumiti.



Eby'entambura: okuzeesa amagaari kutwara abantu ahamashomero, ahamirimo kandi hamwe n'okwegura ebintu.



Okukozeesa obutagasi n' amashanyarazi okuruga ahamushana narishi 'Solar Heat' hamwe nebindi: Ebyoma eb yokubiza amaizi okuzeesa amaani'gomushana 'solar water heaters': ebyoma eb yokwomeesa eb yokurya okukozeesa amaani'gomushana 'solar food dryers'.

Kuturikukozeesa ebyoma, eb yokuheembesa n'okumurikiisa ebintu ebitarikutwar'amani meingi tukyendeza obwetagi obwamajuta ekyokureeberaho, ebyooto eb y'enkora ensya nibitwar'enku nkye okusinga eb yakare kandi n'eb yoma enkora ensya, hamwe n'amataara aga LED nibyetaga amashanyarazi makey okusinga eb yakare. Emiringo eyi eyin'okuba nkibaasika okugyehisyaho ahorihooona



Buri muringo gwein'okuba gweine ebishwani bishatu n'empaandiza erikugambaho aha migasho, oburemderi nebirikugukwataho, hamwe n'ahorikubaasa kushanga ebindi ebihandiko ebikwatireine n'omuringo ogwo Akatab'aka keine okuyamba abantu okutunga amagyezi n'omushomo ahamuringo reero abantu bakateeka omunkora ebibashooma.

Tikokushoma kwonka konka kukira munonga nakokugira ngu bury'omwe abase okumanya emiringo eyarikubaasa kukoreesa okugira ngu twena tuturegye n'eihooreere n'ensi yeitu.

Reeka tukwataneise ahabw'obugwagye bw'ensi yeitu, entunguuka kugira ngu tubingye obwororo kandi turinde entabangurika y'embeera y'ensi yeitu.



Emiringo eteisibwe eyin'okuba nehamisiriza za SDGS eza UN ezikworekireire okureeta entunguuka etarikutabangura embeera y'ensi yeitu namunonga SDG 13- Okukwatanisa okuzibira entabangurika okw'embeera y'ensi yeitu, SDG7- Okutunguura enkoreesa y'eb yokuheemba eb itari kusheisha ensi yeitu, SDG5- Obweinganiza omubami na bakyara, abasugazi na beishiki, SDG6- amaizi marungi gabury'omwe, SDG2 -okumaraho enjara

Emiringo eteisibwe eyin'okuba nehamisiriza engyenderwa ezihanga ezirikwetwa NDCs ezikwatireine n'okuyendeza omwika mubi ebirikugambwaho omuri LEDs-Paris Agreement ahamwe nebindi ebirikokorwa okihikiriza SDG7 ekyokureeberaho Sustainable Energy for All (Se4ALL).

Empandiika eya buri muringo oguteisibwe eyina kuba eine ebintu ebi: Ebishwani bishatu

Okushoborora

- Eburungi/emigasho ey'omuringo ogwo
- Empiha n'eseente ez'omuntu arasigaze bureizooba narishi burikukozeesa omuringo, esente eziyakufereirwe yaba atakozeise omuringo ogwo
- Omuhendo gwo bwire, eseente n'amaani okutebekanisa no kukora omury'ogwomuringo.
- Oburiinzi narishi ekirikwetagisibwa okureberera enkora egyo Ebirikwetagisibwa
- Ebizibu eb y'omuntu arikubaasa kushanga omukokora enkora egyo
- Oh'orikubaasa okushanga nari okwiha ebikwatireine n'omuringo ogwo
- Amagyezi agarikwetagisibwa okokora, okureberera ne nkoreesa ey'ogwo muringo
- Oburungi hamwe nobubi aha mbeera y'ensi yeitu
- Abakwaki omuring'ogwo nigukora gye
- Okushoborora ok'eseente ziratambure omukora ebikwatireine nogw'omuringo, ebiragiirwa hamwe nembaririra eyambire abandi okuhikiriza eb y'enkora egyo ein'okuhikiriza
- Ah'omuntu arikubasa kushanga ebindi ebihandiko ebikwatireine n'omuringo ogwo



Okuteeka



Esigiri ezirikukoreesa enku enkor'ensya

- Esigiri eya Okoa V5 Efficient Household Firewood Stove omuri Tanzania Esigiri eya Rocket Lorena Two-Pothole Stove omuri Uganda
- Rocket Stove by Caritas, Kitui omuri Kenya Shielded Firewood Cookstove omuri Uganda Esigiri eya Upesi Stove & Aniga Energy Efficient Cookstoves omuri Kenya

Esigiri ezirikukoreesa amakara enkor'ensya

- Efficient Household Charcoal Stove / SeTa-mkaa (2nd generation) omuri Tanzania
- Improved Charcoal Baking Oven (ICBO) omuri Tanzania Jiko Bora omuri (Tanzania) & Burn Jikokoa omuri Kenya

Esigiri ezirikukoreesa enku n'amakara enkor'ensya

- Jiko Tosha & Wisdom Stove (Malaika Jiko, MJ/M2) omuri Kenya KIDT Briquettes Energy Saving Stove omuri Tanzania





Okuteeka



Esigiri ezirikukoreesa enku enkor'ensya omubitongore n'ebigombe

- SeTa Improved Institutional Firewood Cookstoves (SeTA-IIFC) omuri Tanzania
- Efficient Fish-Frying Firewood Stove (SAFISTO) omuri Tanzania
- Institutional Improved Cookstoves (ICS) by JEEP at Schools omuri Uganda

Okuteeka na bayogasi narishi Biogas

- Blue Flame Biogas Digester omuriKenya
- Flexi Biogas / FlexiTech & Takamoto Biogas omuri Kenya Fixed Dome Biogas Plant omuri Tanzania na Uganda Biogas for Cooking at Schools omuri Uganda)

Kuuka ezirikukoreesa amaanigomushana, ebyeibo nari ebiteebo erikuteeka oteine omuriro, kuuka ez'amashanyarazi

- Fireless Basket Cooker / Flask (Hay Box) omuri Uganda
- Solar Box Cooker & Parabolic Reflector Solar Cookers omuri Uganda Haines-Copenhagen Solar Cookers omuri Kenya
- Solar Cooker Cookit & Solar Box Oven (ULOG) omuri Kenya Efficient Electric Pressure Cookers omuri Tanzania





Ebyamakara enku nebindi ebirikukozeesibwa omuriro orwokuteeka ebyokurya



Ebyooto ebyamakara enkor'ensya

- Ekyooto eky'enkorora ensya ekya Improved Basic Earth-Mound Kiln (IBEK) omuri Tanzania
- Ekyooto eky'enkoora ensya ekya Portable Metal Kiln omuri Kenya Buriketi ez'amakara, ebibeijero, hamwe nebindi ebirikubasa kukoresesibwa omuriro Buriketi ez'amakara ezikoresibwe engaro omuri Uganda
- Maa Briquette omuri Kenya
- Buriketi ez'ebishushu bya kokonati (Coconut husks) n'esingo'yamakara omuri Tanzania
- Blue Box Toilet Waste Sanivation Briquettes omuri Kenya KIDT Rice Husks Charcoal Briquettes omuri Tanzania.

Okuhinga emiti

- Okihinga emiti ezamakara omuri Uganda





Ebyokuhwezeesa n'okumurika hamwe na amashanyarazi



Etaara ezirikukozeesa amaani'gomushanarishi 'solar lanterns'

- Kampani eya Little Sun Solar Lampa omuri Uganda
- Etaara erikoreesa amaani'gomushana, kyajja ey'esimu ya Sunking nayo erikukureesa amani'gomushana, na D.light omuri Kenya, Uganda na Tanzania (Kenya, Uganda, Tanzania)

Amashanyarazi kuruga omu'maani'gomushana ag'ahaaka

- Tekinologiya eya PV Roof ahari Gaitheri Secondary School Solar PV Roof omuri Kenya
- M-Kopa 600 Solar System erikukoresibwa omuri za TV hamwe netaara nebindi ebyokumurika omuri Kenya
- Za furigi ezirikukoreesa amaani'gomushana narishi Solar-PV-powered Refrigerator omuri Uganda
- Amashanyarazi kuruga omu'maani'gomushana ag'ahaaka ahari Kimaroroni Solar Home System omuri Tanzania
- Tekinologiya eya Sunking erikwakisa amataara, amasimu na za TV omuri Tanzania Kenya na Uganda

Karimagyezi ey'okukora amashanyarazi okuruga omuihangwa ebirikwegaruraho nahabwekyo etarikushisha ensi yeitu ekirikwetwa Renewable Energy Mini-grids

- Ebyoma ebya Kibindu Gasifier. Ebyoma ebya Mpale Solar Micro Grid omuri Tanzania
- Ebyoma erikukora amashanyarazi okuruga omumuyaga nakasorora ebya
- Small Wind Turbine - Do-it-yourself model.

Solar Hybrid Mini-Grid omuri Tanzania





Amaizi



Okureeka amaize ag'enjura n'okugakozeesa

- Okureeka amaizi genjura nemirembeeko ahamaju omuri Uganda
- Okureeka amaizi genjura omubidiba bishwekirwe ekiveera kubiika ago amaizi omuri Uganda

Amaziba za pampu na nayikondo enkora-ensya

- Amaziba ag'enkora ensya omuri Uganda
- Amaziba agarikukoreesa amaani'gomushana narishi Solar omuri Uganda Pampu ey'amaizi ag'enjuura erikukoreesa amaani'gomushana narishi solar

Okukwatagye okw'amaizi no byokufuhirira ebihingwa amaizi

- Emiyembe n'enkora ya Drip Irrigation erikukozeesa amaani'gomushana omuri Tanzania.
- Enju ezirikuhigwamu ezakarimagyezi nénfuhirira yebihingwa eya Drip Irrigation omuri Tanzania.





Okuhinga Ebyokurya, amajuta



Okuhinga okw'ahaaka

- Okuhinga omu budeya, obuguti narishi obuveera (Kenya)
- Kampani eya Keyhole Home Gardening omuri Uganda Kitchen Garden (Uganda)
- Okuhinga haihi neifumbiro/ekiyuungu omuri Omuri Uganda
- Okuhinga ebyokurya okozeesize amaizi agagubire omuri Uganda

Okihinga (haza empinga yakare) emboga ezokuguza mu butare

- Mlango Farm omuri Kenya

Ebyobuguzi okuruga omu miti

- Kampani ya Ficus Natalensis Agroforestry Systems omuri Uganda Okukora esaabuni hamwe na majuta ag'okwesiiga okuruga omu majuta ag'emiti omuri Uganda





Obutagasi okuruga amaani'gomushana nebindi



Ebyoma ebirakozeesa amaani'gomushana okubiza amaizi

- Ekyoma kya Direct Solar Water Heater omuri Kenya

Ebyoma eby'okomeesa ebyokurya - Ebimbonga, Ebibara, Ebirungo, Ebyenyanya n'ebindi ebirikoreesa amaani'gomushana

- Ekyoma kya Semi-industrial Solar Food Dryer omuri Tanzania
- Ekyoma kya Grekkon Limited Solar Food Dryer omuri Kenya Ekyoma kya JEEP Solar Food Dryer omuri Uganda
- Ekyoma kya Kawanda Solar Food Dryer omuri Tanzania

Ebindi

- Ekyoma kya Sparky Charcoal Food Dryer omuri Uganda





Ebyentambura



Amagaari

- Amagaari omuri Uganda
- Amagaari omuri Kenya
- Amagaari omuri Tanzania

Amagaari na Pikipiki eza bature

- Pikipiki eyamasharazi yenziga eishatu (Tanzania)
- Pikipiki na engaari eza bature (Uganda na Kenya)

Entambula aha Bitungwa (Ebikooko)

- Ente eziturakozeesa okwegura ebintu (Uganda)
- Engogoya (Kenya)





80+

Local Sustainable Solutions in East Africa

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GLOBAL/REGIONAL:

INFORSE - International Network for Sustainable Energy
INFORSE-East Africa c/o TaTEDO, Tanzania
 Web: www.inforse.org www.inforse.org/africa,
www.inforse.org/africa/EASE.htm

TANZANIA:

TaTEDO - Tanzania Sustainable Energy Services Organization
 Web: www.tatedo.or.tz

UGANDA:

UCSD - Uganda Coalition for Sustainable Development
 Web: www.ugandacoalition.or.ug
JEEP - Joint Energy and Environment Projects
 Web: www.jeepfolkecenter.org

KENYA:

SusWatch - Sustainable Environmental Development Watch
 Web: www.suswatchkenya.org

DENMARK:

Nordic Folkecenter for Renewable Energy
 Web: www.folkecenter.net
INFORSE-Europe
 Web: www.inforse.org/europe

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