Project NE/L001373/1

# Unraveling biofuel impacts on ecosystem services, human wellbeing and poverty alleviation in Sub-Saharan Africa

The following files have been archived as part of this data descriptor:

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| **File name** | **Description** |
| ESPA\_Biofuels\_Dataset\_production.xlsx | Excel file that contains a dataset generated through a household survey targeting households involved in biofuel crop production as plantation workers or smallholders (intervention groups) and households not involved in biofuel crop production (control groups). The survey was conducted over several months in 2014 and 2015. The four study sites include:* a hybrid sugarcane project that contains a large sugarcane plantation and sugarcane smallholders (both rainfed and irrigated) in Dwangwa, Malawi;
* a site that combines a large-scale estate and several smaller community-owned plantations in Tshaneni, Swaziland;
* a smallholder-based jatropha project in Mangochi, Malawi;
* a large jatropha plantation in Buzi, Mozambique.

The dataset contains responses from 1,544 households across the four sites.  |
| ESPA\_Biofuels\_Questionnaire\_production.pdf | PDF file that contains the household survey for the four feedstock production sites (i.e. Dwangwa, Tshaneni, Mangochi, Buzi) using a description for each variable name and the question ID.  |
| ESPA\_Biofuels\_Dataset\_adoption.xlsx | Excel file that contains a dataset generated through a household survey targeting households in Maputo city that adopted and not adopted ethanol stoves. The dataset contains responses from 341 households from the neighbourhoods of Benfica, Chamaculo, Hulene, Mavalane, Maxaquene, and Urbanizacao.  |
| ESPA\_Biofuels\_Questionnaire\_adoption.pdf | PDF file that contains the household survey for the survey in Maputo city using a description for each variable name and the question ID. |
| ESPA\_Biofuels\_Sample\_Design.pdf | PDF file that contains an explanation of the sampling design and the structure of the different surveys.  |
| ESPA\_Biofuels\_Consent\_Form.doc | PDF file that contains the consent form for participants in the household survey.  |

Scientific papers and policy briefs that have used part of this data include:

Mudombi, S, von Maltitz, GP, Gasparatos, A, Romeu-Dalmau, C, Johnson, FX, Jumbe, C, Ochieng, C, Luhanga, D, Lopes, P, Balde, BS, Willis, KJ, 2018. Multi-dimensional poverty effects around operational biofuelprojects in Malawi, Mozambique and Swaziland. *Biomass and Bioenergy* In Press, [http://dx.doi.org/10.​1016/​j.​biombioe.​2016.​09.​003](http://dx.doi.org/10.%E2%80%8B1016/%E2%80%8Bj.%E2%80%8Bbiombioe.%E2%80%8B2016.%E2%80%8B09.%E2%80%8B003)

Mudombi, S., Nyambane, A., Gasparatos, A., Johnson, F.X., Chenene, M.L., Attanassov,B, von Maltitz, G.P. User perceptions in the adoption and use of ethanol fuel and cookstoves in Maputo.*Energy for Sustainable Development,* 44, 97–108.

Johnson, F.X., Nyambane, A., von Maltitz, G., Luhanga, D., Jarzebski, M., Balde, B.S., Gasparatos, A., 2018. Impacts of biofuel crop production in southern Africa: land use change, ecosystem services, poverty alleviation and food security. (***ESPA Policy and Practice Brief***), ESPA, Edinburg.

Gasparatos, A., Johnson, F.X., von Maltitz, G., Luhanga, D., Nyambane, A., Gondwe, T., 2017. Biofuels in Malawi: local impacts of feedstock production and policy implications. (***ESPA Policy and Practice Brief***), ESPA, Edinburg, Available at <https://www.espa.ac.uk/files/espa/Biofuels%20in%20Malawi_Local%20impacts.pdf>