



# TOSHIBA CARBON ZERO SCHEME

## UN Sustainable Development Goals

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- > The UN has 17 measurable Sustainable Development Goals (SDGs) and Toshiba supports these goals. This report focuses on **SDG 4: Quality Education**, explaining the impact of the Toshiba Carbon Zero Scheme and its link to this goal.
- > SDG 4 is aiming to ensure that by 2030, all boys and girls will have access to free, equitable and quality primary education. The various targets of the SDG work together to ensure that a child will have access to an equal level of education regardless of gender or place of birth, benefitting from access to safe and appropriate facilities and the support of qualified teachers.
- > The Toshiba Carbon Zero Scheme supports the ongoing activities to promote and disseminate improved cook stoves in Kenya. These stoves replace the traditional 3-stone fires that are used throughout Kenya and sub-Saharan Africa, which require vast amounts of firewood, emit large amounts of greenhouse gases and expose their users to illnesses associated with indoor air pollution.

### FACTS

- > Following major efforts under the Millennium Development Goals (2000-2015), primary enrolment in developing countries now stands at 91%. However, absenteeism and drop-outs remain major challenges, and 57 million primary-age children worldwide are not enrolled in school at all.
- > Over half of all children not enrolled in primary school live in sub-Saharan Africa.
- > 103 million youths worldwide lack basic literacy skills due to limited access to education, over 60% of whom are female.

### Kenyan Cook Stove Case Study

Eliza Muriuki lives in Mathira sub-county and is solely responsible for caring for her 4 primary-age children after losing her husband a year ago. Eliza is the recipient of an improved cookstove through the Toshiba CarbonZero scheme, and there is no doubt that it has changed her and her children's lives. Eliza previously used a traditional 3-stone fire which would produce large amounts of black smoke which affected her health and that of her children, with most of the small income generated from selling vegetables having to be spent on medication. These were funds diverted away which could have been dedicated to investing into new school uniforms and books for the children.



The children also had trouble completing their homework because, given the very high firewood consumption of the 3-stone fire, Eliza was forced to send them out to gather firewood for several hours every evening, leaving them too tired to do their homework. Even when they did sit down to do their homework, smoke from the fire would cause them great difficulty as their eyes would fill with tears. Due to these challenges, the children would therefore often not complete their homework, leading to them falling behind and being punished at school.

The complex challenges facing Eliza's household have been alleviated since receiving the new stove. She narrates: *"I am now very happy as I no longer send my children to fetch firewood in the evening after school. The new stove consumes less firewood so I am able to collect enough as I handle my other daily activities in the farm. This is improving the children's school performance as they are able to commit their evening studying unlike before."*



Eliza further notes the fantastic impact of the stove on her children's education and thus their hopes for the future: *"Many kids fail in attaining a good education as they lack fees and mine were almost in a similar situation but thank God this energy efficient stove came into my life and helped me see the other side of life, I have made tremendous savings overtime and improved my living conditions. Just seeing my kids consistently attend school, their fees paid in time and improving in their performance, I am sure in the near future they will be great people. With good education they can become anything they want as they will be empowered. I am a single mother, my husband having passed on a year ago and the best thing I can give to my kids is a good education, with education everything changes."*

### Toshiba's contribution to the UN Sustainable Development Goals

This case study shows how the project activities in Kenya contribute to SDG 4 in the following ways:

- By reducing exposure to illness caused by indoor air pollution, the CZK stove removes a cause of school absenteeism and frees up funds that were being spent on medication for investment into education. These factors reduce interruptions to children's education and ensure that they have the resources they need at their disposal to perform to their full potential.
- With the necessity of spending hours every day gathering firewood removed, children have a great deal more time to spend completing their homework, and a much more conducive environment in which to do so, with the house no longer filled with smoke.

For more information about the Toshiba Carbon Zero Scheme please visit our website:  
[www.toshibatec.eu/about/sustainability/carbon-zero/](http://www.toshibatec.eu/about/sustainability/carbon-zero/)

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