

# PROPANE EMPOWERS

In the developing world, propane provides impoverished families with universal access to sustainable energy for heating and cooking, saving the lives of millions of women and children while **fueling the fight for gender equality**.

## SUSTAINABLE DEVELOPMENT GOALS



### PROPANE FURTHERS U.N. SUSTAINABLE DEVELOPMENT GOALS

In 2015, United Nations Member States approved the 2030 Agenda for Sustainable Development providing a global “blueprint for action” on an urgent range of initiatives. Within this agenda, are 17 Sustainable Development Goals, including affordable and clean energy, quality education, gender equality, and climate action among others. Leaders and citizens of the developing world recognize propane as an invaluable alternative to deforestation and dirty heating/cooking. Propane can help nations achieve many, if not all, of the UN goals.

### SUSTAINABLE ENERGY FOR ALL

*“Three billion people need clean cooking solutions and their economic success is a hugely exciting investment opportunity. Propane is an exceptional part of that opportunity ... Imagine if we can create vibrant markets for clean fuels for the 20 countries where 84% of those three billion people live. We would be advancing progress on the Sustainable Development Goals on health, poverty, women, children, environment, deforestation, energy and climate.”*

**RACHEL KYTE**

Special Representative of UN Secretary-General | CEO, Sustainable Energy for All

### ACCESS TO CLEAN, AFFORDABLE ENERGY

Approximately 3 billion people around the world live without access to non-solid fuel sources and instead rely on dangerous, carbon-heavy firewood, charcoal or animal dung for heating and cooking. This causes them to inhale carcinogenic smoke, which results in over 4 million premature deaths worldwide, mostly women and children.



### IMPROVING HEALTH & SAVING LIVES

*“When you cook with firewood, smoke enters your eyes. My children cough because of the smoke. When you cook with gas, you feel nothing.”*

**CAMEROON WOMAN WHO ADOPTED PROPANE COOKING THROUGH THE “BOTTLED GAS FOR BETTER LIFE” PROGRAM**



### HEALTH, EDUCATION & SAFETY

In areas like developing Asia and Sub-Saharan Africa, the chore of drudging home heavy firewood falls on women and girls. This can take them up to six hours a day and exposes them to any number of dangers ranging from snakebite to sexual assault. The workload also prevents girls from getting an education.

### CHANGING GENDER ROLES

*“I spent 3-4 hours cooking before. Now, in one hour I can do everything. I recommend propane to my friends. I tell them it has been a benefit and they should go and get it. With propane, my husband is now willing to help me.”*

**FATIMA SULIMAN AHMED** | Darfur, Sudan

# PGANE

Green Sustainable Energy

888-445-1075 | PGANE.ORG



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The movement to switch families in developing countries from coal and wood to propane cooking is actively preventing global deforestation, saving millions of trees per year while significantly reducing harmful greenhouse gas emissions.



## SAVING TREES

*Propane can help stop global deforestation and save the trees.*

The world loses an area of forest equal to the size of Connecticut, New Hampshire and Maine each year. The vast majority of this deforestation occurs in Latin America, Southeast Asia and parts of Africa, where wood is used for heating and cooking.

In Ghana, the switch to clean and portable propane stoves is projected to save up to 221 million trees over 10 years. For every 50 families that switch from wood to propane cooking, one acre of global forestland is preserved.

## FIGHTING CLIMATE CHANGE

*By saving trees, propane eliminates greenhouse gas emissions.*

Forests and tree cover are necessary for preventing harmful greenhouse gas emissions such as carbon dioxide from reaching the atmosphere. In Guinea and Sierra Leone, deforestation has caused CO<sub>2</sub> emissions to increase by more than 470% from 2014-2018.



Ghana's switch to propane cooking is projected to eliminate up to 9.3 million metric tons of CO<sub>2</sub> emissions and up to 16.6 million metric tons of black carbon emissions. Next to CO<sub>2</sub>, black carbon is recognized as the 2<sup>nd</sup> leading global warming agent.

## A QUICK, SUSTAINABLE SOLUTION

*Propane is an easy, affordable solution for the world's climate and energy crisis.*



Globally, up to 25% of black carbon emissions come from burning coal and wood for heating, cooking and electricity. In 2018, the U.S. used carbon-heavy coal to power 28% of our electricity.

The International Energy Agency projects that *1.4 Billion people* in the developing world can transition to propane cooking over the next 10 years. Countries like India, Indonesia and El Salvador demonstrate how quickly and sustainably propane adoption may be scaled up across national territories.

