

## CONTRIBUTION TO SUSTAINABLE DEVELOPMENT

## Energizing the Sustainable Development Goals

With its pioneering technologies, ABB is helping to address the economic, social, environmental and governance challenges defined by the SDGs

In order to identify the SDGs where ABB can have the most impact, we used the GAPFRAME framework to pinpoint the five “Grand Challenges” (waste, equal opportunity, clean energy, innovation and carbon) that overlap with our material issues. These five challenges translate to the seven SDGs where we can have the most impact.

The SDGs and their underlying targets reveal new market opportunities for innovative companies such as ABB. According to the “Better Business, Better World” report from the Business & Sustainable Development Commission, related potential business opportunities are estimated to exceed US\$5 trillion in the following areas: building solutions, urban infrastructure, clean energy, energy efficiency and mobility systems.

ABB is already active in many of these fields and aims to enhance its market leadership by identifying additional areas where its products, solutions and services can be deployed with maximum impact.

The graphic on this page identifies the seven SDGs where we can have the most impact, as well as highlighting our direct and indirect contributions to the remaining 10 SDGs.

ABB makes a significant contribution to all 17 SDGs. Examples can be found by [clicking on the SDG icons](#).



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# ABB enables seven of the United Nations' Sustainable Development Goals

The following case studies illustrate just some of the many ways ABB is enabling the global community to meet many of the underlying SDG targets



## Affordable and clean energy

ABB's microgrids, powered by renewable energy, bring electricity to remote places and provide clean backup power to outage-prone regions. Microgrids can integrate multiple distributed generation sources, and their benefits are realized almost immediately. ABB is partnering with the rural arctic communities of Deering and Buckland, Alaska, to install advanced, modular "plug-and-play" microgrids to support the adoption of wind power.



## Clean water and sanitation

ABB is helping water companies achieve their own targets for SDG 6 through our solutions and expertise, which optimize processes and minimize leaks and water loss in distribution networks and transmission systems. ABB's distributed control system with integrated leakage and event management for Ho Chi Minh City will reduce non-revenue water loss from 30 percent to 10 percent by digitally monitoring the water network and initiating repairs in near-real time.



## Decent work and economic growth

Industrial automation is bringing back jobs to old manufacturing centers, generating new growth. For example, in an old television factory in South Wales, UK, ABB's YuMi robots are helping workers with the assembly of Raspberry Pi, Britain's smallest – and most popular – computer. Automation, in combination with shipping and logistics savings, has made South Wales a cost-effective production base for Raspberry Pi.



## Industry, innovation and infrastructure

ABB will invest €100 million in Austria to build a state-of-the-art innovation and training campus at the home of B&R in Eggelsberg, Upper Austria. It is the largest organic investment in industrial automation in ABB's more than 130-year history and lays the foundation for around 1,000 new high-tech jobs in Austria. This new R&D campus will open in 2020.



## Sustainable cities and communities

The key to sustainable urban living is building smarter cities, managed with advanced technologies and systems that will allow them to accommodate swelling populations without overwhelming infrastructure or services. ABB is partnering with the [Smart Cities Council](#) and with communities all over the world to make them cleaner, smarter and more sustainable while laying the groundwork for the city of future.



## Responsible consumption and production

ABB has taken a significant step towards making its production processes both circular and sustainable by closing a major deal for recycled copper. Installation Products, which is part of ABB's Electrical Products business, was the first to sign a deal with Aurubis, one of our key copper suppliers globally. Aurubis specializes in non-ferrous metals reclamation from scrap.



## Partnerships for the goals

ABB is a founding partner of United for Efficiency (U4E), a public-private multi-stakeholder collaboration partnership led by the United Nations Environment Programme. U4E helps governments develop and implement national and regional strategies for improved energy efficiency, and ABB is sharing our expertise in motors and transformers, policies, regulations and standards, as well as potential applications for the best available technologies.

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# ABB contributes to ten of the United Nations' Sustainable Development Goals

The following case studies illustrate just some of the many ways in which ABB is contributing to global efforts towards many of the underlying SDG targets



## No poverty

In response to Typhoon Haiyan, which devastated the Philippines in 2013, ABB raised over \$500,000, donating some of those funds to Gawad Kalinga, a non-profit committed to fighting poverty. Since then, ABB and Gawad Kalinga have worked together on an ABB Global Village, in the province of Negros, providing new homes and critical infrastructure to a small rural community in one of the most severely-hit and poorest areas of the island, helping to give those affected a new start.



## Zero hunger

Participants in the ABB 5K road race in Houston, Texas, USA, have the option to run, jog or walk on behalf of Kids' Meals, a first-responder to children five-years-old and under facing debilitating hunger due to extreme poverty. Every year, a number of runners in the ABB 5K commit to raising \$250 for hungry children. Kids' Meals delivers free healthy meals to the children's doorsteps, and collaborates with their families to help end the cycle of poverty.



## Good health and well-being

Since 1979, ABB has successfully delivered and installed safety systems in more than 55 countries for the oil & gas sector, the chemical sector and other major industries. A pioneer in the development of advanced safety technologies, our flagship System 800xA integrated control and safety system provides people, equipment and the environment with the safety, security and protection required for almost any project.



## Quality education

As part of its broad effort to support training for skilled manufacturing jobs, ABB pledged in 2018 to embrace apprenticeship programs in the United States, where the company has 24,000 employees. By supporting the lifelong learning of its employees, ABB is creating new and more affordable ways for people to upskill and secure higher-paying jobs.



## Gender equality

For the fourth year running, in 2018 ABB Hungary announced its scholarship for female technical university and college students. The program, "ABB mentoring scheme for female students," aims to strengthen the participation of women in technical fields and to provide female students with the opportunity to familiarize themselves with the products, services, and operation of an international company.



## Reduced inequality

As a major sponsor of the Special Olympics Germany, ABB has been supporting the games through volunteer helpers since 2000. For the first time ever, ABB's technology contributed to the Olympics in 2018 by providing a charging infrastructure for electric vehicles around the "Olympic Town" in Kiel.



## Climate action

ABB is a member of the Alliance of CEO Climate Leaders, an informal group facilitated by the World Economic Forum. Together we signed an open letter ahead of COP24 to confirm our commitment to fast-track solutions to help deliver on an enhanced and more ambitious global action plan to tackle climate change and meet the goals set out at the 2015 Paris Climate Agreement.



## Life below water

By the Ocean we Unite, a Dutch foundation, uses advanced solutions supplied by ABB to study, measure and report on the rising concentration of plastics in the ocean. The foundation leverages the ABB Ability Marine Advisory System – OCTOPUS to plan optimal routes for its research vessel, maximizing the ship's fuel efficiency and operational impact. At the same time, ABB Ability Fleet Portal helps the foundation gather and analyze real-time data from the vessel's onboard sensors.



## Life on land

ABB recently completed a major life-cycle assessment of HVDC Light Generation 5 M9 to quantify its long-term environmental impact. The study took all materials and transmission losses into account. The study concluded that over the past 10 years, ABB has cut the carbon footprint of HVDC light by 66 percent. After power losses, civil works and construction materials, main circuit equipment and converter valves had the largest environmental impact from a delivery of an ABB HVDC system.



## Peace, justice and strong institutions

ABB has a decade-long partnership with the International Committee of the Red Cross (ICRC) that was renewed for three years at the end of 2017. Regular exchanges between ABB and ICRC staff helped identify focus areas to further improve energy efficiencies. ABB will continue to support ICRC's activities related to renewable energy and use of technology in the electrification value chain.