

Our offering footprint - support to Growth

Project: Offering Sustainability Impact

Power generation technologies and solutions are key enabler for economic and societal developments. For development to be sustainable, delivery of power services needs to be secure and have low environmental impacts. Sustainable social and economic development requires assured and affordable access to power.

While the power sector is experiencing sustained growth, the value of our customers is increasingly determined by their ability to balance these different requirements while operating their assets and investing in new solutions.

Monitoring and managing the contribution of our new build and service projects to achieve the different sustainable development objectives of our customers is the purpose of the “Offering Sustainability Impact” program. It aims at providing facts from recently completed projects and raising the awareness for key sustainability related challenges for future power plant project

First steps: Quantifying impact of our offerings on mitigating climate change

Along the power value chain, the impact of different power generation technologies on use of natural resources, environment and health is mainly determined by their performance at the operation stage.

This is particularly the case for thermal power solutions. The first stage of the program was dedicated to assess the impact of our offering on mitigating climate change being a key sustainability impact area. In this regard we're quantifying the amount of avoided CO2 emissions for our customers achieved through the operation and use of our technologies and services compared to their respective business-as-usual scenarios. Based on international standards a new Alstom methodology was developed in 2010 leading to a first quantification cycle dealing with more than 1000 projects (Thermal & Renewable Power projects) commissioned between 2002 and 2008. The approach as well the results were verified and certified by 3rd party (PriceWaterHouseCoopers).

A second quantification cycle in 2012, including further 400 projects commissioned in 2009 and 2010, was successfully completed with an even higher level of certification. The Alstom approach is acknowledged by PwC and different key players of the climate change community to be the most

advanced within the power generation sector. The uniqueness of the approach reflects Alstom commitment to providing existing and viable CO2 mitigation solutions and to transparently communicating on the market impact of its “Clean Power Today!” strategy.

Next steps: Managing further key sustainability impact areas

Even though mitigating climate change is one of the driving forces behind a growing demand for sustainable power supply, a larger framework of relevant impact indicators will be developed in close collaboration with the different businesses. This framework will be used to report and to manage the impact of recently offered and future solutions on the sustainability of our customers.

As we continue to quantify the impact on CO2 mitigation on a yearly basis, the need and feasibility of quantitative assessments on further impact indicators will be addressed and implemented as required.

For some, strategically important impact areas, we will drive the alignment of internal efforts on managing the impact of existing solutions and the identification of future optimization opportunities. These tasks will also require a continuous monitoring of the developments of relevant international standards and methodologies, customers’ sustainable development reports as well as main competitors’ positioning on offering sustainability.