

# ACE

Advancing  
Carbon Neutral  
Economy



## DEG

DEG, a member of the KfW Bankengruppe (KfW banking group), finances investments of private companies in developing and transition countries. As one of Europe's largest development finance institutions, it promotes private business structures to contribute to sustainable economic growth and improved living conditions.



## TÜV NORD

TÜV NORD China is a part of TÜV NORD Group, which is one of the largest technical service providers in Germany. TÜV NORD is one of the leaders in Environment Protection, UNFCCC Clean Development Mechanism, Energy Efficiency Management. The laboratories are certified by the Central Authority of the States for Safety Technology (ZLS) and the highly-qualified team is composed of experienced specialists for all areas of product, system and emission certification.



## ASSIST

ASSIST is a non-stock, non-profit international capacity building organization with its headquarters in the Philippines. It aims to achieve and witness meaningful change to and for our planet and the people living on it. Since 2003, ASSIST has implemented over 20 projects funded by multi-lateral donors such as European Union, USAID, UNEP, UNIDO, DEG, GIZ, etc.

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## IMPLEMENTING PARTNERS



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## ★ PROJECT BRIEF

China is the world's second largest energy consumer, second only to the United States. Its energy consumption has been fueled by the economic growth over the past two decades. China has emerged from being a net oil exporter in the early 1990s to become the world's third-largest net importer of oil in 2006. Natural gas usage in China has also increased rapidly in recent years, and China has looked to raise natural gas imports via pipeline and liquefied natural gas (LNG). China is also the world's largest producer and consumer of coal, an important factor in world energy markets.

In the industrial sector, the highly-consuming industries of energy are iron and steel, nonferrous metal, oil and petrochemicals, construction, coal and machinery. The rapid growth in these industries makes China as one of the world's largest emitter of green house gases and therefore a significant contributor to global warming. Energy efficiency measures can help in reducing air pollution and also generate economic benefits – thus making it attractive to investors and energy consumers. Creating a better basis for increasing energy efficiency would help the Chinese Government to meet its 2020 commitment of advancing a more environment-friendly economy.

ACE is an initiative, funded by DEG and jointly implemented by TUV NORD and ASSIST, that aims to contribute in advancing a carbon neutral economy. The project will target energy-intensive enterprises in four cities of China, namely Shanghai, Tianjin, Guangzhou and Chongqing. These four locations are among the top most industrialized cities in the country, where resource-intensive industries are concentrated.

### Train-the-Trainer Workshop

3-day Train-the-Trainer workshop will be rolled out in the identified cities and will be conducted in local language to ensure effectiveness. At least 60 local representatives of different companies, organizations and institutions will be trained.

### Carbon Neutral Companies

At least 5 companies, mostly categorized as carbon-intensive ones, will be identified for the third phase of the project. After the provision of technical assistance, those companies will be verified as Carbon Neutral Company.

### Case Study/ Report

A case study/report will be prepared upon completion of the decarbonating activity for selected companies. This will be published in two languages to elicit further local interest on carbon neutrality.

### Best Practices Forum

As a culminating activity, at least 50 multistakeholders coming from government agencies, local associations, industry or companies, academe, etc. will be invited to showcase the overall impact of the project.

## ★ PROJECT ACTIVITIES/ DELIVERABLES

### Multi Stakeholder Forum

Four Forums will be conducted targeting at least 200 top executives and decision makers, mostly coming from energy-intensive manufacturing companies, concerned government agencies, local industry associations, academe, and other relevant organizations.

### Awareness Session

1-day awareness session will be implemented in four locations targeting at least 120 participants. This will highlight the alarming level of carbon emissions in China and the practices that companies can adopt to curb the amount of the country's emission level.

### Online Assessment Tool for Carbon Footprint Calculation

The online tool, which will be created in two languages, will be developed benchmarking international standards and references like ISO 14064/Kyoto protocol. Data such as the number of employees, travel distances, fuel usage, energy usage etc. will be collected from at least 50 companies.

### Development of training material

The training material will be available in English and Chinese and will be based on the approved course outline patterned to PAS 2060, WRI standards and guidelines on GHG protocols and other international standards like ISO 14067, ISO 50001 and ISO 14064.



## ★ BENEFITS

ACE is a Public –Private Partnership project which targets two levels of beneficiaries - the industries and institutions. Joining and supporting the project will allow the target group to benefit at three levels.

### OUTPUT:

- Multistakeholder Forum, Awareness Session, Best Practices Forum
- Online Assessment Tool for Carbon Footprint Calculation
- Training Material
- Structured Train-the-Trainer Workshop
- Technical Assistance
- Case Study

### OUTCOME:

- Ensure full understanding and appreciation of the concept on carbon neutrality, its importance and benefits for the industries
- Build-up local capability for various stakeholders, through transferring of technology and know-how on implementing carbon neutral practices
- Create knowledge multiplier through qualified local trainers, publication of case study and online assessment tool

### IMPACT:

- Facilitate the achievement of China's sustainability targets