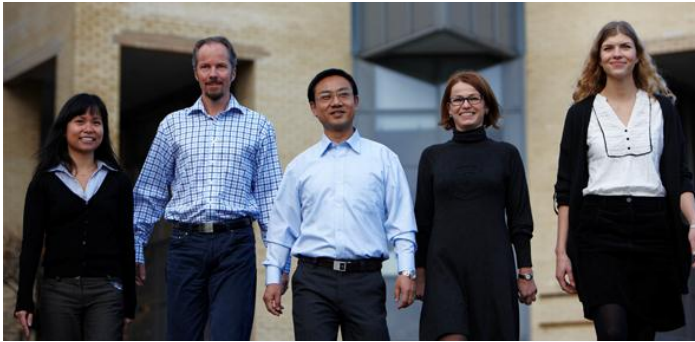


Norconsult

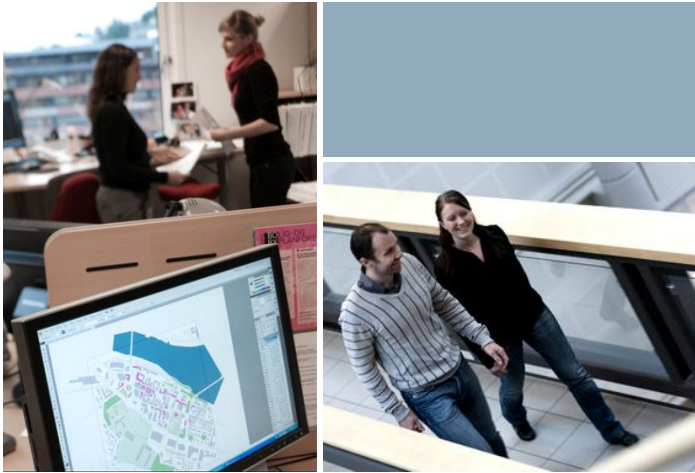
EEA Grants program launch: "Energy Efficiency and Renewable Energy"

Sofia, Bulgaria 10.October , 2013

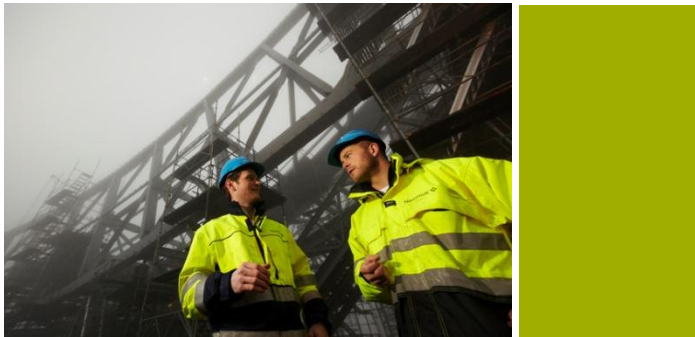
About Norconsult



Norconsult is a multidisciplinary engineering and design consultancy, providing advice to clients in the public and private sectors worldwide.



Norconsult contributes to build a sustainable society through targeted advice - from the earliest pre-investment and feasibility studies, through planning, design, construction supervision, to project implementation and operations. Norconsult is an advisor both for the present and the future. We understand and see the consequences and relations how our advice impacts the environment.



Norconsult has its headquarters in Norway, and has developed a sound reputation as a leading player in Norway as well as internationally. We have experience from 80 years of operations and from about 150 countries.

About Norconsult


- 2400 employees
- 73 offices in 10 countries
- NOK 2.7 billions in revenue

Per October 1, 2012




Norconsult is Norway's and one of the Nordic countries' leading multidisciplinary engineering and design consultancies

Norconsult








100%



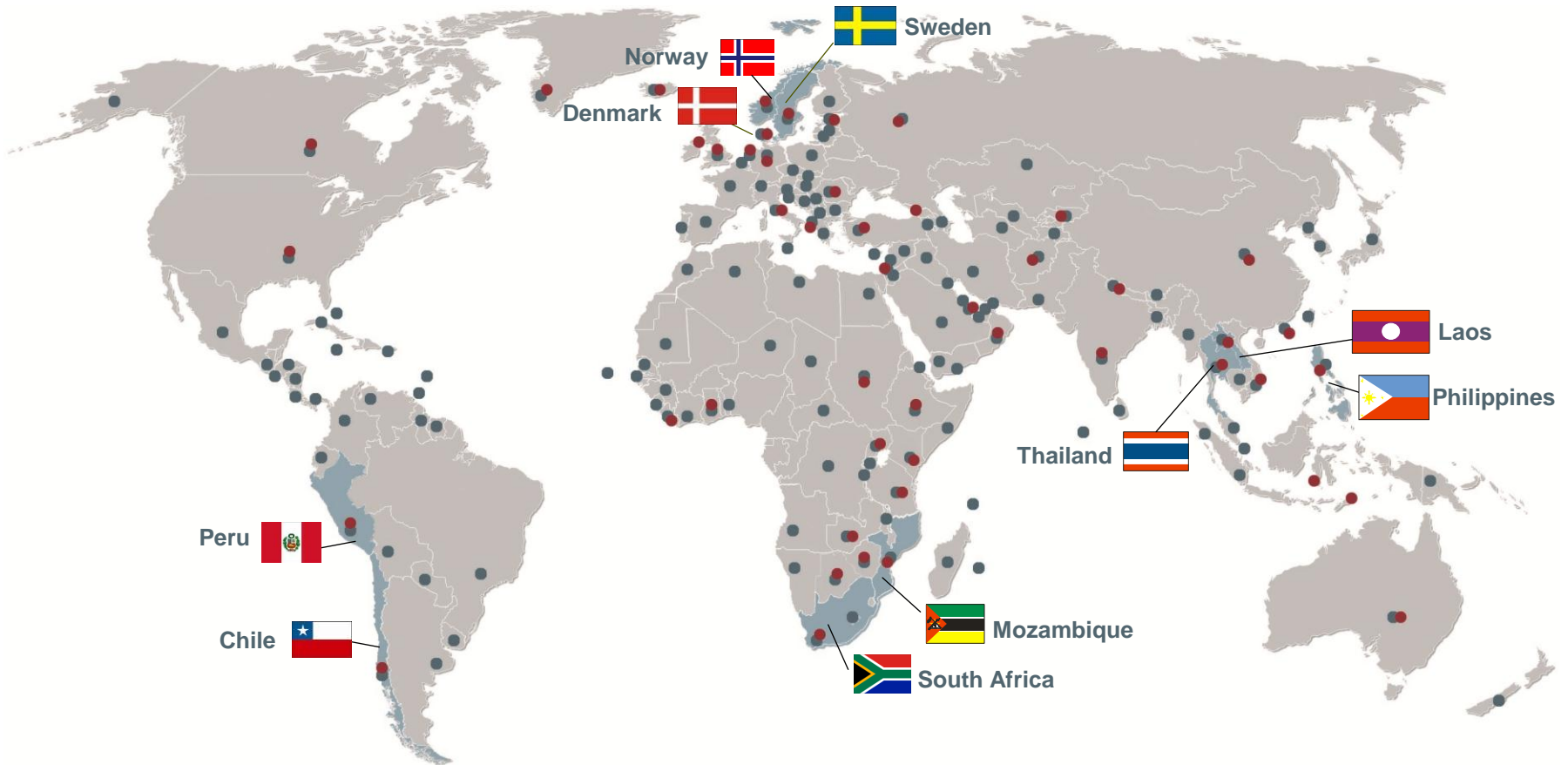
Norconsult AS




100%	100%	100%
		
Lysenor	Technogarden	Norconsult Information Systems (NOIS)

100%	100%
	
Norconsult Sweden	Norconsult Denmark

100%	100%	40%	100%	24,5%	100%	100%
						
Norconsult Africa	Norconsult Mozambique	Norconsult Philippines	Norconsult Laos	NorCiv Engineering (Thailand)	Norconsult Chile	Norconsult Peru

More than 50 years of international experience



-  Countries where we have permanent offices
-  Countries where we have had projects in 2011
-  Countries where we have had projects since 1956

Business area - Buildings



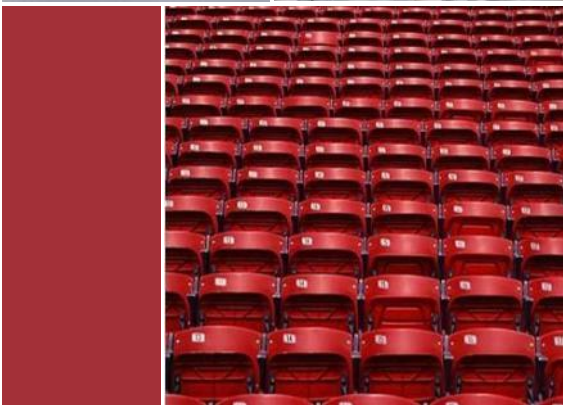
Sustainable buildings of the future require the development of total, resource-efficient and high-quality building concepts. Smart solutions that safeguard both the indoor and outdoor environments are essential.

Norconsult has been involved for a long time in designing and developing the buildings of the future, in which interaction between the building's design and the indoor and outdoor climatic stresses is a central factor.



We provide advice for:

- Cultural buildings
- Educational buildings
- Hospitals and institutional buildings
- Hotels
- Office buildings
- Residential buildings
- Shopping centres
- Sports facilities



Business area - Energy



Climate challenges are global and shared, which means that access to clean energy concerns us all. A more energy efficient world, with goals for sustainable growth and long-term benefits, is a global challenge that must be solved.

Norconsult has been involved for a long time in creating the basis for environmentally friendly power development and a secure energy supply throughout the whole world.

We provide advice within:

- District heating and -cooling
- Energy conservation
- Energy Planning
- Hydropower
- Renewable energy
- Thermal energy
- Transmission and distribution
- Wind power

Primary program areas for partnership with Norconsult:

- ✓ Energy efficiency measures in public buildings; changing of fuel and boilers, replacement of heating installations and systems

Norconsult experience:

- Conversion projects from electrical or oil heating -> heatpump, biomass, biodiesel.
- Energy audits for cost-effective design and dimensioning
- Matching of heat source to existing distribution system for a low-cost approach
- Large district heating systems; we see potential for improved control

Primary program areas for partnership with Norconsult:

- ✓ Increased use of renewable energy sources for heat generation; heat pumps, biomass, solar and geothermal energy

Norconsult experience:

- Planning and engineering many heat pump projects from 100 kW to 20 MW
- Cost-effective sizing of geothermal sources using advanced tools and methods
- Many HP projects with heat sources from wastewater, ventilation exhaust etc.
- Whole-systems design for combined heating and cooling, with seasonal storage

- Experience from woodchip and pellet-fired boiler systems

- Expertise in other critical disciplines for a successful project: electrical supply analyses, acoustics, particle distribution, transport logistics...

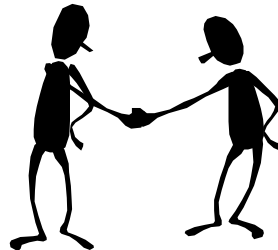
Areas of secondary interest for partnership with Norconsult:

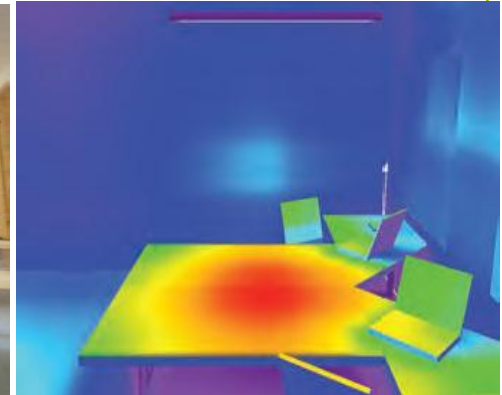
- Pilot micro-electricity generation (up to 200 KW) in piped water supply and irrigation gravity systems;
 - Long international experience from small scale hydro generation
 - Participated in pressure-reduction turbine pilot projects in Norway.
- Production of fuels for heating based on biomass
 - Much experience with systems for exploiting landfill gas
- Training and education activities aimed at increasing capacity of state and municipal administrations in energy efficiency and RES solutions.
 - Norconsult operates Norway's national energy agency hotline providing technical and program information to many state and municipal entities.
 - Norconsult has energy coordinator role for the 5 year "Future Cities" project covering energy planning for the country's largest urban areas, 13 cities in total.



Image: Future Cities, www.regjeringen.no

- Grants may be used for studies/planning, investments, or initial operations
- Norconsult can assist as advisor in the projects, with tasks such as:
 - Preparation of the grant application
 - Appraisals and feasibility studies
 - Expert assistance/advisory in the subsequent planning and engineering stages: Detailed engineering and tendering normally carried out by local consultants.
 - Expert assistance/advisory in the subsequent procurement, and construction stage





Thank you for your attention!

For more info, please contact:

Robert Martinez

robert.martinez@norconsult.com

+47 45401247