

# At a glance: Hydropower sector's contribution to a sustainable and prosperous Europe.

## Hydropower's contribution to European welfare, energy security and a low-carbon society is significant today!



**380 TWh electricity generation in EU-28** and 600 TWh in Europe. Accounting to 13% (Europe: 18%) of total electricity generation.



**More than 150 GW of firm capacity**, which is able to supply more than 25% of maximum peak load in recent years.



**220 TWh of storage capacity** in Europe.



Technology leadership of European equipment manufacturers: **2/3 of global market share**; 5% of annual turnover invested into R&D



Up to **24bn € of savings from avoided fossil fuel imports** into EU-28.



**More than 180 Mt of CO<sub>2</sub>-Emissions are avoided p.a.**



**25bn € contribution to EU-28 GDP** and 38bn € to European GDP p. a.



**80.000 high-qualified jobs** in EU-28 (120.000 in Europe). Value creation per person eight times higher than European average in the manufacturing sector.

## Hydropower's perspective and effects

Significant economic potential for increasing the use of hydropower exists in Europe:

+ 7% in EU-28 (+ 20% in Europe) by 2030

+ 19% in EU-28 (+ 31% in Europe) by 2050

Up to 180bn € future investments in hydropower are possible by 2030 - under the right market and regulatory condition – if the +20% generation potential will be explored in Europe.

A 10% increase in hydropower generation in Europe by 2030 means:

+ 60 TWh renewable electricity

+ 9-11bn € increase in GDP

+ 27.000 – 36.000 new jobs

Europe = EU-28, Norway, Switzerland and Turkey

Source: Study - The Hydropower sector's contribution to a sustainable and prosperous Europe, DNV GL 2015