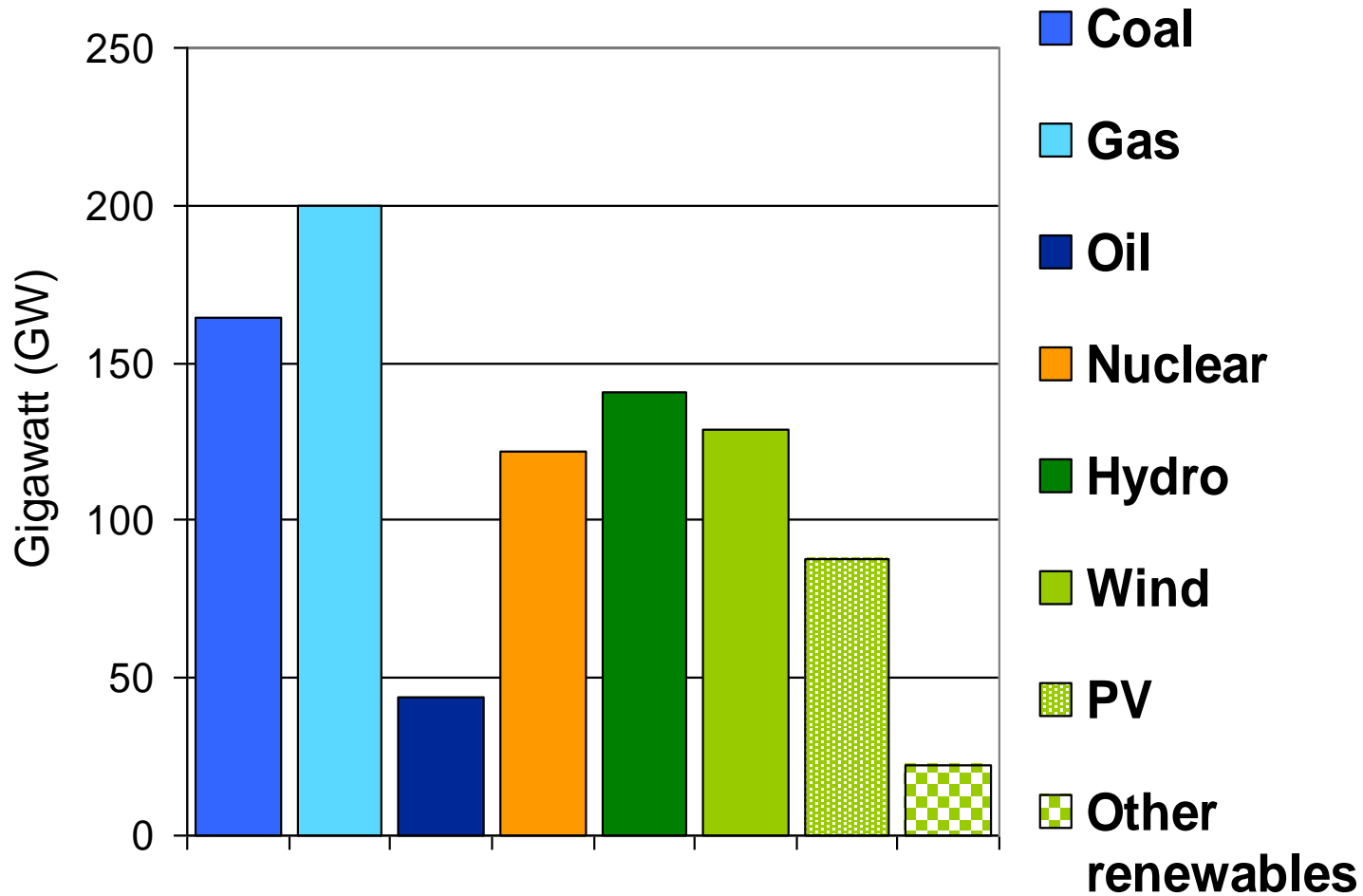




September, 2015 – Dr. Anders Nordström, Head of Environment, ABB Ltd.

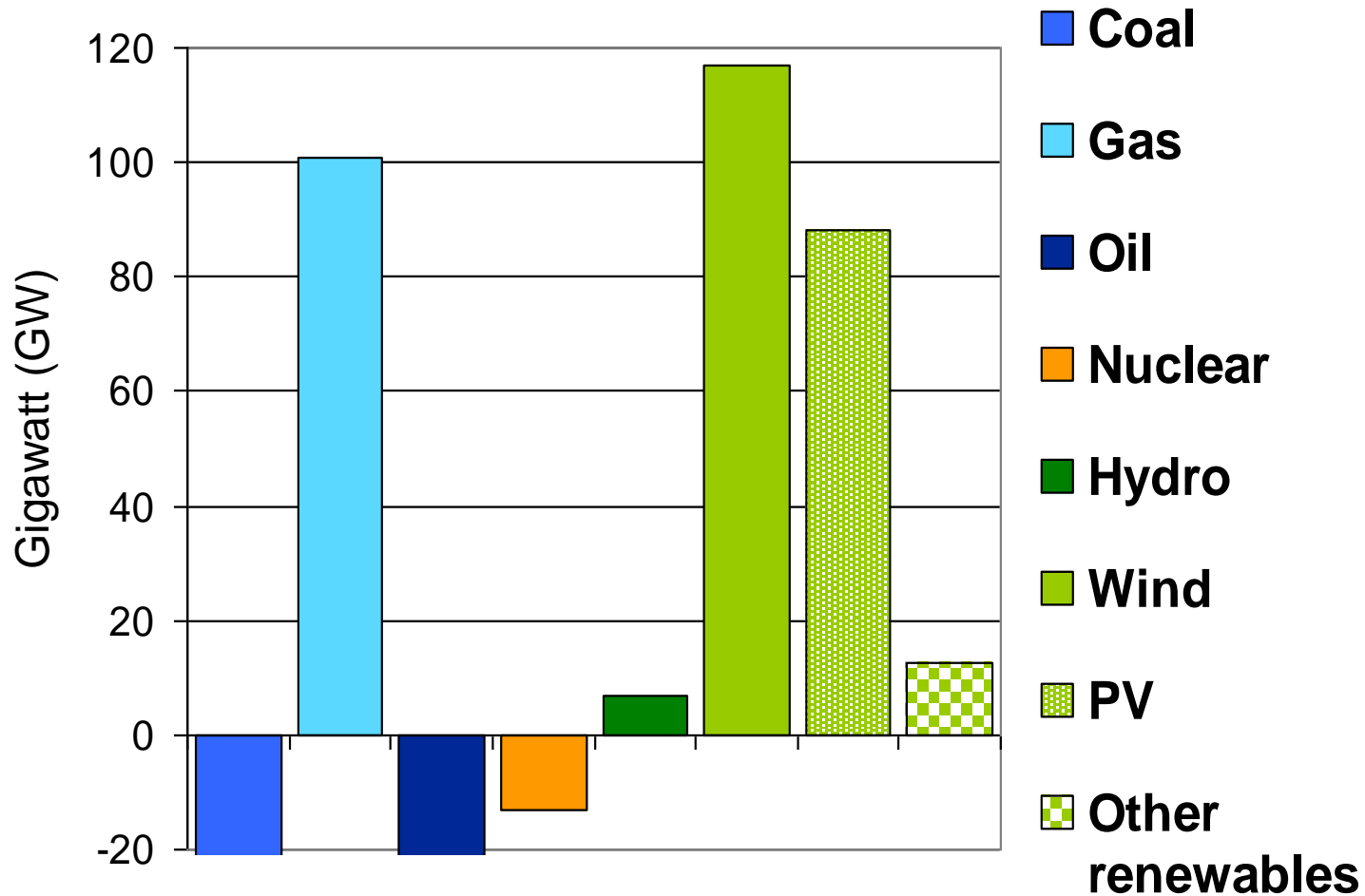
Clean solutions for power and transport in rapid urban development

Power capacity mix in the EU 2014, GW



Source: The European Wind Energy Association (EWEA)

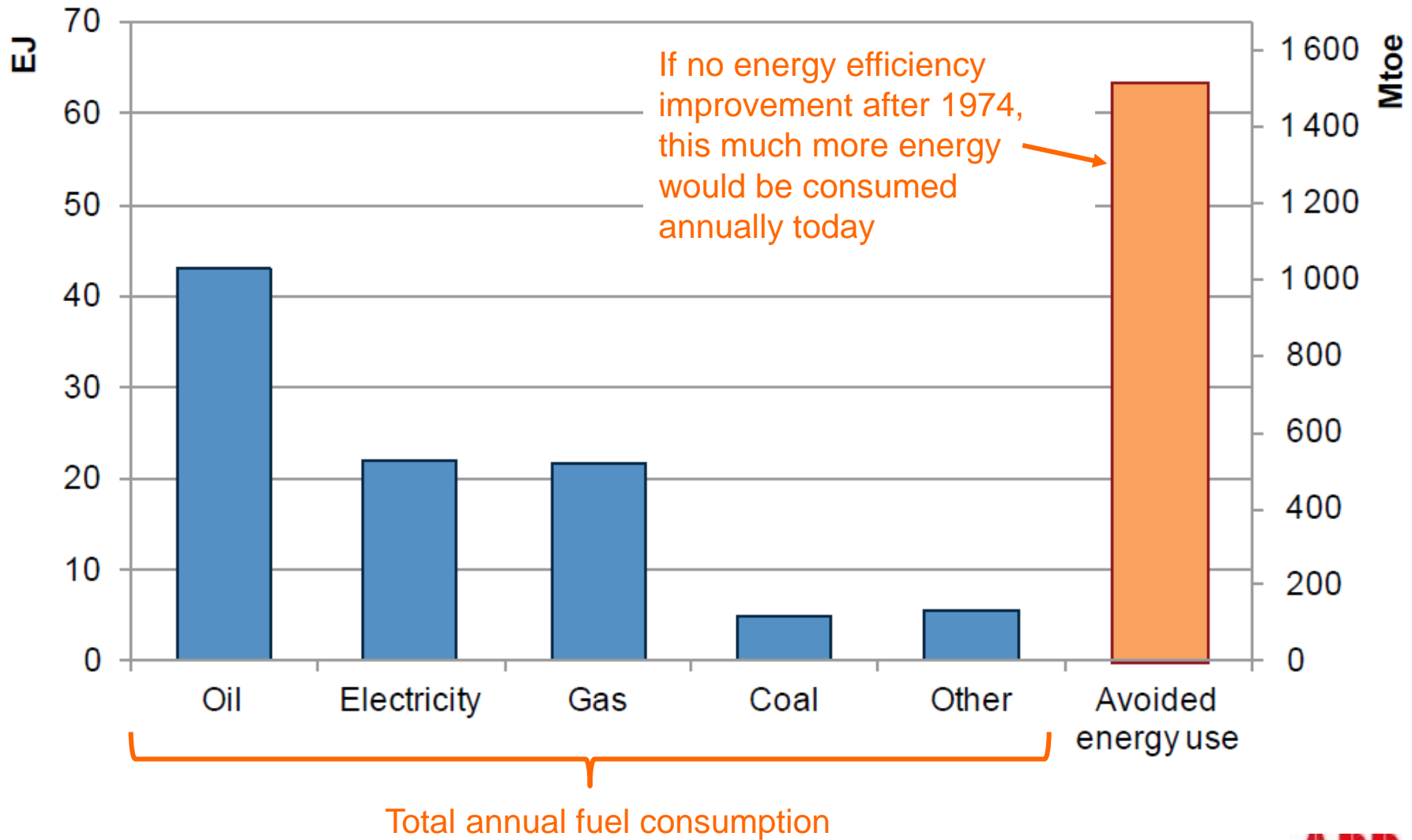
Changes in power capacity mix in EU 2000-2014, GW



Source: The European Wind Energy Association (EWEA)

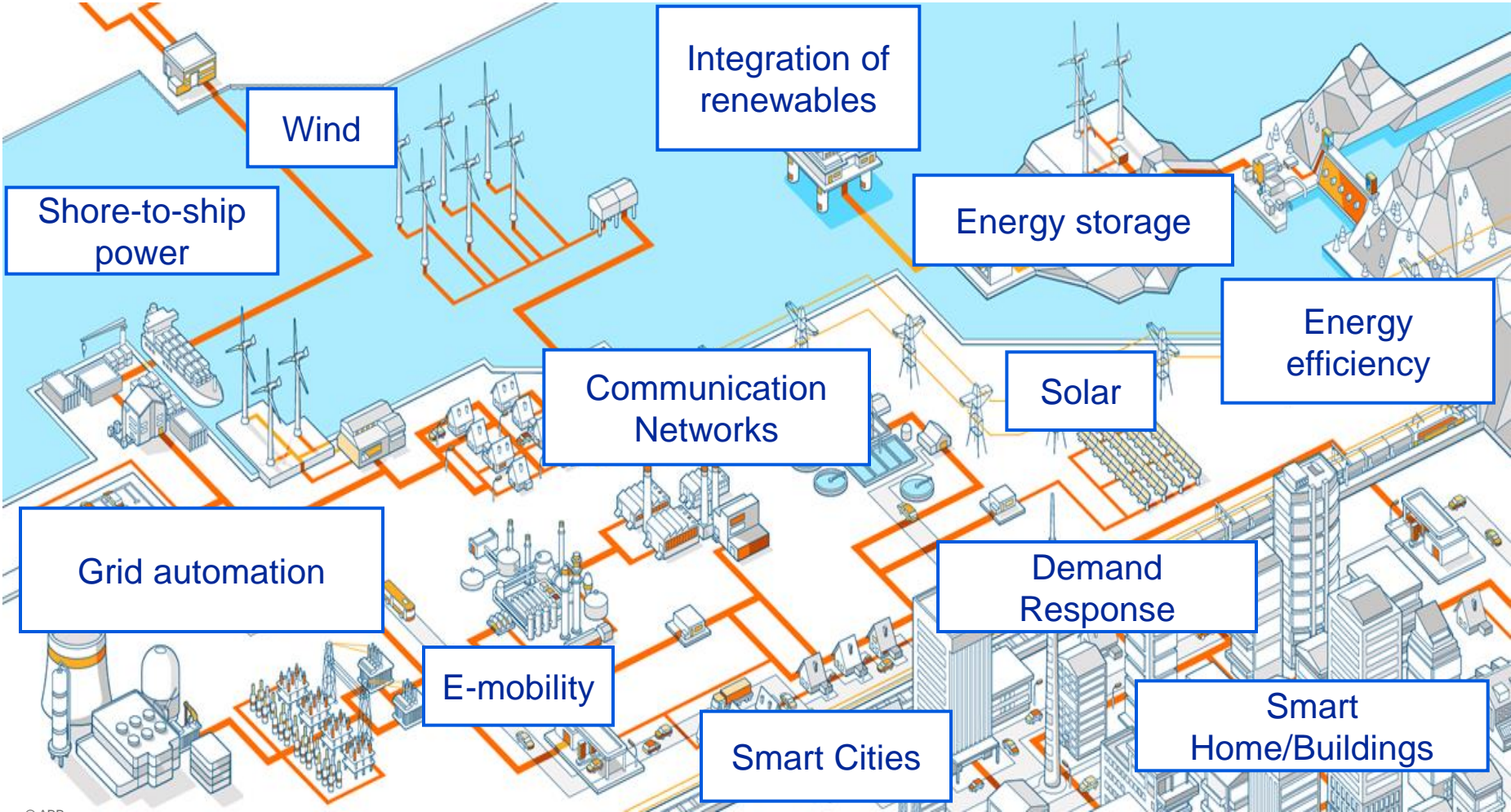
Energy efficiency - the first fuel

Large annual savings from continual efficiency efforts



Smart grids for smart cities

New intelligence



Powering the world's metro and tram systems

Leading supplier of power and automation solutions for the railway industry

Serving high-speed and suburban railways, metros, trams, trolley-buses and freight trains



Examples:

- Delhi
- Kolkata
- Mumbai
- Dubai
- Saudi Arabia
- London
- Paris
- Vienna
- Zurich
- Stockholm
- Rome
- Istanbul
- Beijing
- Shanghai
- Nanjing
- Tianjin
- Changchun
- Sao Paulo
- Melbourne

ABB built world's largest nationwide network of electric vehicle fast-charging stations in the Netherlands



Fast-charging station



200 fast-charging stations for electric vehicles

Maximum 50 km apart

DC technology allowing charging in 15-30 minutes

ABB delivered similar system to Estonia

Energy efficiency in buildings

40% of world primary energy used in buildings



80% of the economic potential of energy efficiency in buildings remains untapped

(World Energy Outlook, IEA 2012)

Cases:

Refurbishment of library in Australia:
- 50% energy consumption
+ \$160,000 annual savings

Building automation at museum in Italy:
- 28% energy consumption
+ \$112,000 annual savings

Power and productivity
for a better world™

