Science and Technology Innovation Board Wind Energy Photovoltaic

Which countries are driving digitalisation in wind power & solar PV?
Digitalisation in wind power and solar PV has been driven by the US,Germany,Denmark and Japan. Smart energy transition includes a widespread deployment of clean energy technologies and intelligent energy management with information and communication technologies (ICTs).

Is solar PV a strategic renewable technology?
This report clearly points out that solar PV is one of the strategic renewable technologies needed to realise the global energy transformation in line with the Paris climate goals. The technology is available now, could be deployed quickly at a large scale and is cost-competitive.

Why is ICT important for wind power & solar PV?
Thus far,in most wind power and solar PV inventions,the purpose of including ICT has been to improve the generation performance of power generation. It is already clear that the installation of wind power and solar PV has continued to increase rapidly after 2011.

Why are solar photovoltaic and wind power used as case studies?
Solar photovoltaic (PV) and wind power are used as case studies of RES technologies. These technologies were chosen because their capacity and importance in the energy markets is increasing rapidly[1].

How does wind speed affect PV module efficiency?
The effect of these on PV module efficiency was calculated using common standard values for all technologies 22. Wind speed is also important in solar PV energy systems for its cooling properties,which can increase energy generation,and for increasing or decreasing soilingon the PV panels 55.

Are wind power patents a convergence trend with ICT?
Wind power patent data shows a straightforward technology convergence trend with ICT. Basic inventions in solar PV have increased more rapidly than solar PV ICT solutions. Digitalisation in wind power and solar PV has been driven by the US,Germany,Denmark and Japan.

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