



Importance of Scale & Economics in Carbon Management

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Renewable baseload requires energy storage (battery, pumped storage) at scale and economics + GT based peakers support

<sup>†</sup> Current production share of wind & solar is at 9%

\* ~ 100 GW wind in EU requires 2 Twh of storage @ 500 \$/Kwh ~ 1 TT\$ of battery or 100-150 BB\$ of pumped hydro if available





Source: IEA

# Enabling the complete decarbonization value chain through GT scale capture, conversion, and storage





### What are the potential levers for GT scale decarbonization?



DASTUR











Large scale CO<sub>2</sub> collection, aggregation, transport and disposition infrastructure that is economically attractive and operationally seamless for emitters





Grid prices in or transfers the operating risks of transport & sequestration away from emitters

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# Resource challenges for large scale hydrogen production





4. Dastur research





#### Energy Security, Economic Prosperity





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## Our engagements in energy transition







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