

2022 - System Services Proven Technology Types

For each DS3 System Service, the "Proven List" sets out the technologies which the TSOs consider to be proven at this time for procurement purposes. The designation of a technology as "proven" does not entitle any individual service provider to a DS3 System Services contract. Each individual service provider must pass the compliance assessment and meet all service provision standards in terms of performance. Also, while a technology may be considered proven for multiple services, this does not mean that it can provide all of these services at the same time. Some services can only be provided in certain operational modes. Finally, for some types of service provider (e.g. windfarms, pumped hydro), the ability of the service provider is dependent on the underlying technology used.

Proven Technology		FFR	POR	SOR	TOR1	TOR2	RR (S)	RRD	RM1	RM3	RM8	SSRP	DRR	SIR	PPFAPR
Type of Service Provider	Sub-technology (fuel / operational specific)														
Thermal/Hydro - Centrally Dispatched Generating Unit - CDGU	Coal	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Combined Cycle Gas Turbine - CCGT	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Open Cycle Gas Turbine - OCGT	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Distillate Oil	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Peat	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Anaerobic Digester / Waste to Energy	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Combined Heat and Power	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Biomass	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Hydro		x	x	x	x	x	x	x	x	x	x	x	x	x
Wind Power - WFPS	Wind Farm	x	x	x	x							x	x		x
Storage	Solid State Batteries e.g. Lithium Ion	x	x	x	x	x	x	x	x	x	x	x	x		x
	Flywheels (Non-Synchronous)	x	x	x	x										
	Pumped Hydro	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Compressed Air Energy Storage	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Synchronous Compensator	Synchronous Compensator	x	x	x	x	x	x	x	x	x	x	x	x	x	
HVDC Interconnector	Direct Current – Voltage Source Converters - VSC	x	x	x	x	x						x	x		x
	Direct Current – Line Commutated Converter LCC	x	x	x	x	x									
Aggregated Service Providers	Aggregated Generation Units (fossil-fuel based) - AGU	x	x	x	x	x	x	x	x	x	x				
	Industrial Demand Side Units (demand response) - DSU	x	x	x	x	x	x	x	x	x	x				
	Residential Demand Side Management (demand response) - RDSM														
Solar Power	Solar Photovoltaic	x	x	x	x							x			
	Solar Thermal														
	Concentrated Solar														
Ocean Energy	Tidal														
	Wave														
														Legend	
														x	Proven
															Not Proven

