

Summer 2022 DER Asset Class Average Unavailability Factors

The following table provides the list of Asset Class Average Unavailability Factors by Asset Source ID for DER for the Summer 2022 Capability Period, used by the Aggregation System. The Class Average Unavailability Factors serve as a proxy value for actual historical Aggregation or Asset Unavailability Factors required to calculate the Facility Seasonal Factors. For additional details regarding class average values and usage of class average, refer to the ICAP Manual Section 4.5.

Capability Period	Asset Source ID	Asset Type	Source Type(s)	Source Fuel(s)	Response Type	Class Average Unavailability Factor (%)
Summer 2022	101	Demand Reduction	Demand Reduction	Curtailement	C	9.78
Summer 2022	102	Demand Reduction	Demand Reduction	Curtailement	B	9.78
Summer 2022	103	Demand Reduction	Demand Reduction	Curtailement	I	9.78
Summer 2022	104	Demand Reduction	Demand Reduction	Curtailement	G	9.78
Summer 2022	201	Generator	Combined Cycle	Coal		4.26
Summer 2022	202	Generator	Combined Cycle	Butane		4.26
Summer 2022	203	Generator	Combined Cycle	Diesel		4.26
Summer 2022	204	Generator	Combined Cycle	Hydrogen		4.26
Summer 2022	205	Generator	Combined Cycle	Jet Fuel		4.26
Summer 2022	206	Generator	Combined Cycle	Kerosene		4.26
Summer 2022	207	Generator	Combined Cycle	Methane (Bio Gas)		4.26
Summer 2022	208	Generator	Combined Cycle	Natural Gas		4.26
Summer 2022	209	Generator	Combined Cycle	No. 2 Fuel Oil		4.26
Summer 2022	210	Generator	Combined Cycle	No. 4 Fuel Oil		4.26
Summer 2022	211	Generator	Combined Cycle	No. 6 Fuel Oil		4.26
Summer 2022	212	Generator	Combined Cycle	Other		4.26
Summer 2022	213	Generator	Combined Cycle	Propane		4.26
Summer 2022	214	Generator	Combined Cycle	Waste Heat		4.26
Summer 2022	215	Generator	Combined Cycle	Wood and/or Wood Waste		4.26
Summer 2022	216	Generator	Cogeneration	Butane		4.26
Summer 2022	217	Generator	Cogeneration	Coal		4.26
Summer 2022	218	Generator	Cogeneration	Diesel		4.26
Summer 2022	219	Generator	Cogeneration	Hydrogen		4.26
Summer 2022	220	Generator	Cogeneration	Jet Fuel		4.26
Summer 2022	221	Generator	Cogeneration	Kerosene		4.26
Summer 2022	222	Generator	Cogeneration	Methane (Bio Gas)		4.26
Summer 2022	223	Generator	Cogeneration	Natural Gas		4.26
Summer 2022	224	Generator	Cogeneration	No. 2 Fuel Oil		4.26

Capability Period	Asset Source ID	Asset Type	Source Type(s)	Source Fuel(s)	Response Type	Class Average Unavailability Factor (%)
Summer 2022	225	Generator	Cogeneration	No. 4 Fuel Oil		4.26
Summer 2022	226	Generator	Cogeneration	No. 6 Fuel Oil		4.26
Summer 2022	227	Generator	Cogeneration	Other		4.26
Summer 2022	228	Generator	Cogeneration	Propane		4.26
Summer 2022	229	Generator	Cogeneration	Refuse		4.26
Summer 2022	230	Generator	Cogeneration	Waste Heat		4.26
Summer 2022	231	Generator	Cogeneration	Wood and/or Wood Waste		4.26
Summer 2022	232	Generator	Combustion Turbine	Butane		12.36
Summer 2022	233	Generator	Combustion Turbine	Diesel		8.08
Summer 2022	234	Generator	Combustion Turbine	No. 6 Fuel Oil		31.75
Summer 2022	235	Generator	Combustion Turbine	Jet Fuel		12.36
Summer 2022	236	Generator	Combustion Turbine	Kerosene		12.36
Summer 2022	237	Generator	Combustion Turbine	Methane (Bio Gas)		12.98
Summer 2022	238	Generator	Combustion Turbine	Natural Gas		12.98
Summer 2022	239	Generator	Combustion Turbine	No. 2 Fuel Oil		31.75
Summer 2022	240	Generator	Combustion Turbine	No. 4 Fuel Oil		31.75
Summer 2022	242	Generator	Combustion Turbine	Propane		12.36
Summer 2022	243	Generator	Combustion Turbine	Coal		14.21
Summer 2022	244	Generator	Combustion Turbine	Waste Heat		12.36
Summer 2022	245	Generator	Fuel Cell	Hydrogen		4.04
Summer 2022	246	Generator	Conventional Hydro	Water		17.45
Summer 2022	247	Generator	Internal Combustion	Butane		12.36
Summer 2022	248	Generator	Internal Combustion	Diesel		8.08
Summer 2022	250	Generator	Internal Combustion	Jet Fuel		12.36
Summer 2022	251	Generator	Internal Combustion	Kerosene		12.36
Summer 2022	252	Generator	Internal Combustion	Methane (Bio Gas)		12.98
Summer 2022	253	Generator	Internal Combustion	Natural Gas		12.98
Summer 2022	254	Generator	Internal Combustion	No. 2 Fuel Oil		31.75
Summer 2022	255	Generator	Internal Combustion	No. 4 Fuel Oil		31.75
Summer 2022	256	Generator	Internal Combustion	No. 6 Fuel Oil		31.75
Summer 2022	258	Generator	Internal Combustion	Propane		12.36
Summer 2022	259	Generator	Internal Combustion	Wood and/or Wood Waste		12.36
Summer 2022	260	Generator	Jet Engine	Butane		18.37
Summer 2022	261	Generator	Jet Engine	Diesel		18.37
Summer 2022	262	Generator	Jet Engine	Jet Fuel		18.37
Summer 2022	263	Generator	Jet Engine	Kerosene		18.37

Capability Period	Asset Source ID	Asset Type	Source Type(s)	Source Fuel(s)	Response Type	Class Average Unavailability Factor (%)
Summer 2022	264	Generator	Jet Engine	Methane (Bio Gas)		18.37
Summer 2022	265	Generator	Jet Engine	Natural Gas		18.37
Summer 2022	266	Generator	Jet Engine	No. 2 Fuel Oil		18.37
Summer 2022	267	Generator	Jet Engine	No. 4 Fuel Oil		18.37
Summer 2022	268	Generator	Jet Engine	No. 6 Fuel Oil		18.37
Summer 2022	269	Generator	Jet Engine	Other		18.37
Summer 2022	270	Generator	Jet Engine	Propane		18.37
Summer 2022	271	Generator	Steam Turbine	Refuse		12.36
Summer 2022	272	Generator	Steam Turbine	Wood and/or Wood Waste		12.36
Summer 2022	273	Generator	Steam (BWR Nuclear)	Uranium		2.07
Summer 2022	274	Generator	Steam (PWR Nuclear)	Uranium		2
Summer 2022	275	Generator	Steam Turbine	Butane		12.36
Summer 2022	276	Generator	Steam Turbine	Coal		14.21
Summer 2022	277	Generator	Steam Turbine	Diesel		8.08
Summer 2022	278	Generator	Steam Turbine	Jet Fuel		12.36
Summer 2022	279	Generator	Steam Turbine	Kerosene		12.36
Summer 2022	280	Generator	Steam Turbine	Methane (Bio Gas)		12.98
Summer 2022	281	Generator	Steam Turbine	Natural Gas		12.98
Summer 2022	282	Generator	Steam Turbine	No. 2 Fuel Oil		31.75
Summer 2022	283	Generator	Steam Turbine	No. 4 Fuel Oil		31.75
Summer 2022	284	Generator	Steam Turbine	No. 6 Fuel Oil		31.75
Summer 2022	286	Generator	Steam Turbine	Propane		12.36
Summer 2022	301	Energy Storage	Energy Storage	Battery		4.04
Summer 2022	302	Energy Storage	Pumped Storage Hydro	Water		4.04
Summer 2022	303	Energy Storage	Fly Wheel	Fly Wheel		4.04
Summer 2022	401	Solar	Photovoltaic	Sunlight		54
Summer 2022	501	Wind	Wind Turbine	Wind		84
Summer 2022	601	Landfill Gas	Combustion Turbine	Methane (Bio Gas)		35.31
Summer 2022	602	Landfill Gas	Internal Combustion	Methane (Bio Gas)		35.31
Summer 2022	603	Landfill Gas	Steam Turbine	Methane (Bio Gas)		35.31