ID	Method	Component	Risk list
	Mediod	Component	The presence of cracks and fissures in solar panels can generate hot spots, resulting
			in a reduction in energy generation efficiency in the affected area and increasing the
1.	Risk factors	Photovoltaic panel	risk of fires.
			Accumulated dirt on the surface of solar panels can cause shaded areas on the
			panel and reduce the amount of captured sunlight, resulting in a decrease in the
2.	Risk factors	Photovoltaic panel	efficiency of electricity generation.
			Internal corrosion of the panels due to exposure to extreme weather conditions or
			the use of inadequate materials results in the deterioration of solar cells and a
3.	Risk factors	Photovoltaic panel	decrease in the ability to convert sunlight into electricity.
J.			Theft of solar panels or their components results in financial losses, system
4.	Risk factors	Photovoltaic panel	malfunctions, and hampers energy generation efficiency.
			Obstruction of solar panels by hail can lead to physical damage to system
			components, creating new circuit paths, resulting in short circuits, fires, and a
5.	Risk factors	Photovoltaic panel	reduction in energy generation efficiency.
			Inadequate operating conditions, such as temperature, humidity, and voltage above
6.	Risk factors	Photovoltaic panel	technical specifications, can result in reduced energy production, decreased panel lifespan, and increased failures due to environmental factors.
0.	Misk factors	r notovoitale paner	Adverse or extreme weather conditions, such as snowstorms, hailstorms,
			windstorms, and hurricanes, can cause physical damage to solar panels, resulting in
7.	Risk factors	Photovoltaic panel	partial or total loss of device functionality.
			Manufacturing defects can cause electrical contact between photovoltaic cells,
			altering the characteristic current-voltage curve of the module, resulting in negative
8.	Risk factors	Photovoltaic panel	impacts on the panel's performance.
			Oxidation of solar panels due to poor-quality materials or exposure to the elements
	D: 1 C .	61	can affect the panel's surface and generate an oxide layer, resulting in reduced
9.	Risk factors	Photovoltaic panel	energy storage.
			Exposure of the photovoltaic panel in high humidity (>0.85%) locations can lead to
			corrosion of panel components, resulting in physical damage to metallic parts of the
10.	Risk factors	Photovoltaic panel	panel, such as electrical contacts and mounting structure.
10.			F
			The exposure of the photovoltaic panel in high humidity (>0.85%) locations can
			cause loss of encapsulant adhesion and allow greater moisture penetration into the
11.	Risk factors	Photovoltaic panel	module, resulting in damage to the cells and reduced energy efficiency of the panel.
			The use of inadequate tools during maintenance of panel connectors can lead to
4.0	District on	District the second	breakage of cable connections, resulting in current leakage and increased risk of
12.	Risk factors	Photovoltaic panel	fires. Placing the panel in shaded areas can reduce current production, thereby
13.	Risk factors	Photovoltaic panel	decreasing electricity generation.
13.	Misk factors	i notovoltale panel	decreasing electricity generation.
			Failure in the soldering of photovoltaic module components can increase contact
14.	Risk factors	Photovoltaic panel	resistance, resulting in reduced energy generation efficiency.
			Oversizing of direct current (DC) or alternating current (AC) can cause overload on
			the solar panel, leading to the burning of components connected to the panel and a
15.	Risk factors	Photovoltaic panel	reduction in the system's lifespan.
			Photovoltaic modules with low-quality materials can generate shaded areas on the
1.0	Dick forter	Dhatavaltaia	panel surface, resulting in a reduction in the amount of generated energy and a
16.	Risk factors	Photovoltaic panel	decrease in panel lifespan. Incorrect installation of inverters can lead to overvoltage in the alternating current
			(AC), impairing the operation of solar panels and reducing energy generation
17.	Risk factors	Photovoltaic panel	efficiency.
			Failure in connectors and junction boxes of solar panels can allow moisture ingress,
			accelerating corrosion and increasing the risk of short circuits in system
18.	Risk factors	Photovoltaic panel	components.
			The use of inappropriate materials during maintenance, such as abrasives, can cause
		-1	physical damage to the surface of the panel, resulting in cracks or fissures that
20.	Risk factors	Photovoltaic panel	compromise energy generation.
21	Dick factors	Photovoltais	Theft of photovoltaic panels by malicious individuals can cause financial losses to the
21.	Risk factors	Photovoltaic panel	system owner, posing a significant risk.
			Malicious individuals may steal photovoltaic panels and their components, resulting
22.	Risk factors	Photovoltaic panel	in financial losses for the system owner and potential accidents on-site.
			Sabotage of the electrical grid can disrupt the production and distribution of energy
			from photovoltaic panels, leading to financial losses, energy theft, and panel
23.	Risk factors	Photovoltaic panel	damage.

			Theft of solar panels or their components; Accumulation of dirt, dust, and debris on the panel surface; Sabotage by malicious individuals; Failure to maintain the panels; Incorrect installation or use of low-quality materials; Malfunctioning of system components; Adverse weather conditions such as hailstorms, strong winds, and storms; Improper use or overload of voltage or power; Manufacturing defects;
24.	Risk factors	Photovoltaic panel	Issues with the electrical grid connected to the panels. Inadequate operating conditions can result in overvoltage or undervoltage in the
25.	Risk factors	Photovoltaic panel	alternating current that powers the panels, reducing their lifespan and increasing maintenance costs. The burning of the inverter can prevent the conversion of stored energy by the
26.	Risk factors	Photovoltaic panel	panel into direct current (DC), resulting in the absence of energy generation and storage.
27.	Risk factors	Photovoltaic panel	Improper installation of inverters and inadequate configuration of their communication protocols can decrease energy generation efficiency. The use of high-voltage inverters carries the risk of system overload, which can lead
28.	Risk factors	Photovoltaic panel	to the burning of photovoltaic modules. Preventive maintenance performed by inexperienced professionals can damage the
29.	Risk factors	Photovoltaic panel	electrical and mechanical components of the panel, resulting in reduced efficiency and system safety in energy generation.
			Inefficient diagnosis of faults in photovoltaic panels can lead to interruptions in energy generation, reducing system efficiency and increasing corrective
30.	Risk factors	Photovoltaic panel	maintenance costs.
31.	Risk factors	Photovoltaic panel	Reduction in system efficiency; Panel burnout; Panel degradation; Reduction in panel yield; Reduction in energy storage; System malfunction.
			Exposure of solar modules to high temperatures and high voltage levels can result in Potential Induced Degradation (PID), leading to defects in semiconductor materials
32.	Risk factors	Photovoltaic panel	and decreasing panel efficiency.
			Lack of regular cleaning and maintenance can accelerate the degradation of
33.	Risk factors	Photovoltaic panel	photovoltaic panels, resulting in reduced energy conversion efficiency. Inverter failure can disrupt the energy transfer to the grid and equipment, rendering
34.	Risk factors	Inverter	the entire system useless.
35.	Risk factors	Inverter	Inverter overheating, due to malfunction, can lead to rapid deterioration of its components, resulting in fires and frequent equipment replacement. Installing the inverter in an unsuitable location with direct exposure to sunlight can
36.	Risk factors	Inverter	increase its temperature, resulting in accelerated degradation and, in extreme cases, overheating and burnout.
37.	Risk factors	Inverter	Improper connection between the string cables and the inverter can cause electrical connection failures, leading to equipment shutdown and difficulties in identifying electrical arcs.
37.	Misk ractors	inverter	Defective RS485 indicator LEDs can erroneously indicate the equipment's operating
20	D' la facta and	Localita	status, resulting in a series of failures such as overvoltage, overheating, and inverter
38.	Risk factors	Inverter	errors, which can lead to inverter burnout. The theft of the inverter can interrupt the energy transfer to other devices due to
39.	Risk factors	Inverter	the absence of the equipment, resulting in a complete system shutdown and financial losses.
			Excessive distance between the communication network and the inverter can cause a significant potential difference between the locations, resulting in interference
40.	Risk factors	Inverter	with the communication signal.
			Undersizing the communication speed of the inverter and the network can lead to
41.	Risk factors	Inverter	more retransmissions, resulting in lower inverter efficiency. Failure to change the default passwords established by the manufacturer can
42.	Risk factors	Inverter	simplify access to the inverter's data, increasing the likelihood of unauthorized breaches and potential information theft.
			Intrusion into the wireless network of the photovoltaic inverter can allow unauthorized and real-time access to all equipment information, including
43.	Risk factors	Inverter	operational and performance data, enabling the installation of malware and malicious software. The absence of an intrusion detection system, such as alarms and sensors, can
44.	Risk factors	Inverter	prevent the identification and monitoring of inverter breaches, allowing silent access to the data.
45.	Risk factors	Inverter	Overvoltage that exceeds the specified technical limit can cause damage to the inverter components, resulting in malfunction or even equipment burnout.

			The absence of integrity verification and failures in non-standardized software loading processes can enable data manipulation or deletion, resulting in loss of
46.	Risk factors	Inverter	accuracy, consistency, and reliability of the performed update. The absence of cryptographic keys or the use of manufacturer default keys can
47.	Risk factors	Inverter	seriously compromise data security, resulting in unauthorized access and theft of sensitive information.
48.	Risk factors	Inverter	Problems in cable connections and crimps can cause electrical resistance, resulting in energy losses and decreased system efficiency.
			Lack of maintenance of electrical protections, including circuit breakers and fuses,
49.	Risk factors	Inverter	can result in insulation failures and electric current leakage.
			Lack of maintenance and cleaning of the inverter's fan, grille, and heat exchanger
50.	Risk factors	Inverter	can interfere with proper heat dissipation and increase the internal temperature of the equipment, resulting in automatic shutdown of the inverter.
50.	THISK TUBESTS	verter	
			Lack of overall maintenance of the photovoltaic inverter, including detection of component damage or breakage, can interfere with energy conversion and overall
54	District on	I	equipment operation, resulting in shutdown, performance reduction, power loss, or,
51.	Risk factors	Inverter	in extreme cases, fires. Tapping into the communication network can allow control over multiple inverters
	District on	I	connected to the bus, resulting in possible manipulation of control signals sent to
52.	Risk factors	Inverter	the inverters. Failure to verify the authenticity of the software load by the inverter can allow the
			installation of tampered versions of the firmware, resulting in unauthorized and
53.	Risk factors	Inverter	malicious access to private information and enabling the transmission and receipt of unauthorized data.
			Improper installation or repositioning of the photovoltaic inverter can result in
54.	Risk factors	Inverter	electrical shock hazards for the installer and loss of functionality of electrical components.
	District on		Inadequate cable diameter can lead to voltage drop and reduce current conversion
55.	Risk factors	Inverter	efficiency, resulting in power loss in the system.
			The presence of a malicious file in the software load can compromise the operation
57.	Risk factors	Inverter	of management software responsible for controlling the inverter, such as Aurora Manager, resulting in improper control and management of inverter information.
			Improper installation of network communication, such as installing two
			RS485/Modbus-RTU masters on the same network, can lead to network
58.	Risk factors	Inverter	intermittence, resulting in inverter malfunction and interruption of power supply. Incorrect installation of communication cables alongside power cables can result in
			confusion and reversal of cable connections, resulting in malfunction of the entire
59.	Risk factors	Inverter	network. Not following manufacturer guidelines and technical standards can lead to
			inadequate sizing of the inverter's electrical current, resulting in the risk of electrical
60.	Risk factors	Inverter	discharge and fires.
			Inadequate current sizing can cause unintentional tripping of the circuit breaker,
61.	Risk factors	Inverter	resulting in power supply interruption, equipment damage, and electrical hazards for professionals responsible for maintaining the photovoltaic system.
			Inadequate inverter sizing can reduce the energy generation capacity of the
62.	Risk factors	Inverter	photovoltaic system, resulting in lower efficiency in capturing sunlight and, consequently, generating electrical energy.
			Installing inverters vertically with an inclination greater than 5° can impede proper heat dissipation from the components, leading to equipment overheating and
63.	Risk factors	Inverter	increased fire risk.
64.	Risk factors	Inverter	Improper inclination of the inverter (greater than 5° vertically) can result in power loss, reducing the efficiency of the photovoltaic system.
04.	Misk lactors	IIIvertel	Installing the inverter in locations with high humidity and inadequate cable sealing
			can allow electrical current leakage, resulting in low equipment insulation resistance, risk of electric shock, and accelerated corrosion of electrical components,
65.	Risk factors	Inverter	reducing the equipment's lifespan.
			Overheating and electrical arcs raise the temperature of the components, exceeding technical limits, causing premature wear, failures, and reducing the efficiency and
66.	Risk factors	Inverter	lifespan of the equipment.
			Aging of inverters and their components over time can result in wear and tear due to equipment usage, resulting in malfunctions and costs associated with corrective
67.	Risk factors	Inverter	maintenance.

68.	Risk factors	Inverter	Lack of regular maintenance on inverter components, such as the fan, grille, heat exchanger, and filter, can lead to dust accumulation in the equipment, resulting in reduced cooling efficiency, shortened inverter lifespan, and increased costs of corrective maintenance.
69.	Risk factors	Gateway (ModBus TCP)	Overheating of the gateway beyond the limits specified in the technical specification can lead to accelerated degradation of electronic components, resulting in reduced equipment efficiency and increased fire risk. Improper installation of the inverter can compromise the functionalities and
70.	Risk factors	Gateway (ModBus TCP)	integrity of the gateway, resulting in overall poor performance of the photovoltaic system. Defective indicator LEDs on the gateway can provide incorrect indications of its
71.	Risk factors	Gateway (ModBus TCP)	operation, resulting in failures that compromise both efficiency and hardware integrity. Theft of the inverter hardware can disable the ModBus TCP to RTU protocol
72.	Risk factors	Gateway (ModBus TCP)	conversion, which is essential for integrating equipment that uses different protocols, impairing communication and plant security.
73.	Risk factors	Gateway (ModBus TCP)	Lack of a firewall, such as proxy, can allow unauthorized external connections and reduce the effectiveness of traffic filtering, resulting in access to specific network information unprotected by security measures.
74.	Risk factors	Gateway (ModBus TCP)	A damaged connection cable can result in the loss of internet connectivity via cable, preventing software updates and impairing equipment operation. Using manufacturer default keys on the gateway can make it easier for hackers to
75.	Risk factors	Gateway (ModBus TCP)	gain unauthorized access to data, compromising the security and privacy of that information and enabling data theft.
76.	Risk factors	Gateway (ModBus TCP)	Intrusion into the wireless network can allow unauthorized and real-time access to all gateway information, compromising its security and privacy, as well as enabling the installation of malware and malicious software.
77.	Risk factors	Gateway (ModBus TCP)	The lack of source authentication mechanisms, such as IP spoofing, can allow the forgery of source IP addresses from other hosts, resulting in unauthorized access to confidential data associated with those IP addresses.
78.	Risk factors	Gateway (ModBus TCP)	The use of weak authentication and encryption can enable desynchronization attacks on TCP communication and allow the hijacking of third-party connections, resulting in access to sensitive information and compromising network security.
			The use of predictable initial sequence numbers can lead to TCP sequence number prediction, allowing the generation of malicious packets targeted at a specific host, resulting in network traffic manipulation, information theft, injection of fake
79.	Risk factors	Gateway (ModBus TCP)	packets, or even denial of service (DoS) attacks. The lack of firewall protection on open TCP ports can allow attempts from malicious IP addresses, which can result in network intrusions and compromise system
80.	Risk factors	Gateway (ModBus TCP)	security. The absence of encryption in communication can enable source routing, allowing an
81.	Risk factors	Gateway (ModBus TCP)	attacker to monitor and intercept communications on the network, gaining access to confidential information and compromising overall network security. The presence of unprotected ports can enable an attacker to launch attacks such as
82.	Risk factors	Gateway (ModBus TCP)	DoS (Denial of Service) on the router, causing the equipment to "reload" and potentially resulting in data loss.
83.	Risk factors	Gateway (ModBus TCP)	A DoS attack or large-scale transmission of SYN packets with forged IP addresses can cause the opening of a server port, rendering it inoperable. The lack of verification of authenticity and integrity in the software loading process can lead to data deletion or alteration, reducing the accuracy, consistency, and
84.	Risk factors	Gateway (ModBus TCP)	reliability of the update. Inadequate maintenance on the gateway can alter its settings, resulting in
85.	Risk factors	Gateway (ModBus TCP)	operational failures and potential security breaches. Disconnection or damage to cables or connections during maintenance can
86.	Risk factors	Gateway (ModBus TCP)	interrupt the gateway's communication with other network devices, resulting in data loss or the loss of important information stored in the gateway. Lack of technical skills and the use of inadequate tools during gateway maintenance
87.	Risk factors	Gateway (ModBus TCP)	can exacerbate existing device failures, resulting in accelerated deterioration of system integrity.

			Loss of data stored in the gateway during maintenance can compromise the
88.	Risk factors	Gateway (ModBus TCP)	integrity of information, affect system productivity and security, and result in financial losses and process disruptions.
		, ,	The lack of antivirus software updates can leave the gateway vulnerable to malware
00	Diale factoria	C. t (AA. ID., TCD)	attacks, resulting in installation failures or installation in an environment where
89.	Risk factors	Gateway (ModBus TCP)	malware may gain access permission. The absence of authenticity verification for software loading can allow unauthorized
90.	Risk factors	Gateway (ModBus TCP)	access to firmware data and passwords, resulting in cyber data tampering and information breaches.
		, ,	Physical access to the gateway by malicious agents can enable the substitution of the device with tampered hardware, resulting in financial losses and unauthorized
91.	Risk factors	Gateway (ModBus TCP)	access to the original owner's data.
			The lack of verification of software authenticity and integrity can allow the installation of malicious software on the gateway, resulting in vulnerability and
93.	Risk factors	Gateway (ModBus TCP)	compromised security. Failures during software loading can cause service disruptions or security
94.	Risk factors	Gateway (ModBus TCP)	vulnerabilities in the gateway.
			The lack of standardization in software loading processes can lead to increased maintenance costs and time, resulting in decreased efficiency, security, and
95.	Risk factors	Gateway (ModBus TCP)	reliability of the system.
0.5	District on	(14 (2 702)	The lack of software and firmware updates can leave the gateway vulnerable to
96.	Risk factors	Gateway (ModBus TCP)	known attacks that could be prevented through the application of security patches. Improper gateway installation and misconfiguration of network settings, drivers, and
			specific configurations can lead to communication issues between devices, resulting in data loss, delays in information transmission, and communication failures or
97.	Risk factors	Gateway (ModBus TCP)	interruptions.
			RS485 networks with incorrectly configured different Modbus addresses can lead to
98.	Risk factors	Gateway (ModBus TCP)	communication problems, such as duplicated responses to commands, interruptions, and failures in device communication.
30.		catemay (measus ren)	Natural aging of hardware, including cables, can result in communication failures
99.	Risk factors	Gateway (ModBus TCP)	from Modbus TCP to RTU protocol, leading to communication disruption or data packet loss.
			Elevated ambient temperatures above specified limits can cause thermal stress on photovoltaic panels, resulting in physical damage and increased maintenance and
100.	Hazop	Photovoltaic panel	replacement costs.
			Extreme weather conditions, such as snowstorms, can lower ambient temperatures
101.	Нагор	Photovoltaic panel	below specified limits, reducing the efficiency of photovoltaic panels and causing financial impacts on the solar power plant.
	,	·	Increased ambient temperatures above specified limits can generate thermal stress
102.	Нагор	Photovoltaic panel	on photovoltaic panels, resulting in physical damage and additional costs for maintenance and replacement.
			Decreased ambient temperatures below specified limits can cause excessive cooling of photovoltaic cells, leading to breakage or cracking and reducing the efficiency of
103.	Нагор	Photovoltaic panel	power generation from the panel.
			Areas with high relative humidity (>0.85%) can cause water condensation inside photovoltaic cells, reducing thermal insulation and increasing the risk of electrical
104.	Нагор	Photovoltaic panel	shocks. Areas with high relative humidity can lead to oxidation and corrosion of cables in the
105.	Hazop	Photovoltaic panel	photovoltaic power plant.
			Lightning strikes can cause overvoltages in the photovoltaic power system,
106.	Нагор	Photovoltaic panel	irreversibly damaging solar cells, leading to short circuits and fires. Impact speed of hailstones exceeding 50 mph can cause microcracks or fissures in
			photovoltaic cells, reducing their mechanical strength and increasing the risk of
107.	Hazop	Photovoltaic panel	short circuits in the system. Excessive snow accumulation on photovoltaic panels can damage the solar cells,
108.	Нагор	Photovoltaic panel	reducing the system's capacity to generate power. Extreme weather conditions, such as strong winds above the specified limit, can
			result in panel detachment and internal damage to photovoltaic cells, resulting in
109.	Hazop	Photovoltaic panel	reduced efficiency in power generation.
110.	Нагор	Inverter	Elevation of direct current above specified technical limits can generate overvoltage in the DC current, resulting in inverter shutdown and possible short circuits.
110.	. Iuzop		
111.	Нагор	Inverter	Presence of defects in the inverter's electrical circuits can cause a decrease in DC voltage, resulting in insufficient input voltage to power the source during nighttime.

112.	Hazop	Inverter	Lack of electrical grounding can compromise protection against leakage currents and lightning strikes, resulting in equipment damage and electrical accident risks. Oversized installation of photovoltaic panels can result in lower output power than
113.	Hazop	Inverter	the input power, leading to prolonged operation of the inverter with lower efficiency and electrical energy loss.
			Elevation of alternating current above specified technical limits and inadequate infrastructure can generate overvoltage in the AC current, resulting in the shutdown of the photovoltaic inverter or burning of electronic equipment connected to the
114.	Нагор	Inverter	grid.
115.	Нагор	Inverter	Decrease in equipment's supply voltage can cause AC undervoltage, resulting in equipment operation interruption or burning of connected devices.
			Increased frequency above the technical specification limit, usually caused by an excess supply of energy compared to demand, can cause network disconnections,
116.	Hazop	Inverter	resulting in mass shutdowns of the photovoltaic inverter and connected equipment.
447		Locator	Climate change, improper installation, and inadequate sizing can cause inverter overheating, resulting in a reduction in system-generated power and, in extreme
117.	Hazop	Inverter	cases, complete inverter shutdown.
			Excessive cooling of the inverter, often due to climate changes such as snowstorms, can cause temperature sensor failures and corrosion of metal components, compromising the proper functioning of the equipment and resulting in economic
118.	Hazop	Inverter	losses for the photovoltaic system.
119.	NCSF	Inverter	Absence of asset inventory and responsible definitions can compromise asset management, access authorization, and identification of accountable parties.
120.	NCSF	Inverter	Absence of software inventory can compromise software management and identification of owners.
120.	NCSI	mverter	deficilitation of owners.
101	NCCE	Inverter	Absence of organizational communication mapping and data flow can hinder
121.	NCSF	lliverter	comprehensive device management and attacks against network services. Absence of threat monitoring processes and tools and lack of information
			classification can impede the detection of network security threats and effective
122.	NCSF	Inverter	information management. Absence of security requirements and controls for management can hinder the
123.	NCSF	Inverter	management and control of information security.
124.	NCSF	Inverter	Absence of standards for reporting incidents and response procedures can compromise incident response and management.
127.	Nesi	mverter	Absence of defined roles and responsibilities can hinder the mapping,
125.	NCSF	Inverter	documentation, and handling of cybersecurity incidents.
126.	NCSF	Inverter	Absence of requirements for risk identification, assessment, and treatment plans can hinder the management of cybersecurity risks.
			Absence of vulnerability information and tools for system and network compliance
127.	NCSF	Inverter	analysis can hinder vulnerability management and compliance analysis.
128.	NCSF	Inverter	Absence of specialized forums for mapping cyber threats can hinder the management of such threats.
120.	NCSI	mverter	Absence of identification and documentation of internal threats can compromise
129.	NCSF	Inverter	asset integrity.
			Absence of technical vulnerability management and restrictions on software
130.	NCSF	Inverter	installation can hinder the collection of information about these vulnerabilities and impede the definition of criteria for software installation.
	Necs	1	Absence of a risk treatment plan can hinder the definition of methods, processes,
131.	NCSF	Inverter	and controls for addressing information security risks.
132.	NCSF	Gateway (ModBus TCP)	Absence of asset inventory and responsible definitions can compromise asset management, access authorization, and identification of accountable parties.
132.	14031	Cuteway (Moubus Ter)	Absence of software inventory can compromise software management and
133.	NCSF	Gateway (ModBus TCP)	identification of owners.
			Absence of organizational communication mapping and data flow can hinder
134.	NCSF	Gateway (ModBus TCP)	comprehensive device management and attacks against network services.
			Absence of threat monitoring processes and tools and lack of information classification can impede the detection of network security threats and effective
135.	NCSF	Gateway (ModBus TCP)	information management.
136.	NCSF	Gateway (ModBus TCP)	Absence of security requirements and controls for management can hinder the management and control of information security.
		, , ,	

			Absence of standards for reporting incidents and response procedures can
137.	NCSF	Gateway (ModBus TCP)	compromise incident response and management.
			Absence of defined roles and responsibilities can hinder the mapping,
138.	NCSF	Gateway (ModBus TCP)	documentation, and handling of cybersecurity incidents.
			Absence of requirements for identification, assessment, and risk treatment plans
139.	NCSF	Gateway (ModBus TCP)	can hinder the management of cybersecurity risks.
			Absence of vulnerability information and tools for system and network compliance
140.	NCSF	Gateway (ModBus TCP)	analysis can hinder vulnerability management and compliance analysis.
			Absence of specialized forums for mapping cyber threats can hinder the
141.	NCSF	Gateway (ModBus TCP)	management of these threats.
			Absence of identification and documentation of internal threats can compromise
142.	NCSF	Gateway (ModBus TCP)	asset integrity.
			Absence of technical vulnerability management and restrictions on software
			installation can hinder the collection of information about these vulnerabilities and
143.	NCSF	Gateway (ModBus TCP)	impede the definition of criteria for software installation.
			Absence of a risk treatment plan can hinder the definition of methods, processes,
144.	NCSF	Gateway (ModBus TCP)	and controls for addressing information security risks.