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## 5x5 series: Insights and actions

## Securing distributed energy resources

Distributed energy resources (DERs) are driving innovation across the electric grid. Along with this shift, DERs pose new cybersecurity considerations that require non-traditional solutions. Securely deploying DERs could help mitigate cybersecurity risks; prepare for future regulation; enable DER expansion; and allow utilities to continue to provide safe, reliable, resilient, and secure energy to their customers.

<b>5</b> things you should know	<b>5</b> action	ns you can take		
<b>Growing digital interconnections</b> between DERs, associated third parties, and utilities could expand the cybersecurity threat surface.	including c maintain ir	dards for DER interconnections to <b>drive consistency in DER management.</b> Develop data models ontrols to secure the availability, integrity, and confidentiality of data. Leverage automated tools to aterconnection inventories and to monitor interconnections. Develop responsibility matrices to clearly urity responsibilities for DER system integrators, DER owners/operators, DER aggregators, and utilities.	Connect with us: David Novak Principal Deloitte & Touche LLP danowak@deloitte.com	
Unlike traditional Operational Technology (OT) devices, <b>DERs are increasingly</b> <b>internet-facing and utilize cloud-based solutions for aggregating and</b> <b>analyzing data</b> used to make operational decisions. This may expand the attack surface and introduce additional risk through added complexity to the environment that would need to be addressed.	capabilitie decrease in Engage wit	andard architecture templates and standard <b>security controls to address internet-facing</b> es and use of cloud in DER management. Enforce cyber-informed engineering when integrating DERs to herent cyber risks and vulnerabilities which could require additional costs to mitigate after deployment. h cloud providers, original equipment manufacturers (OEMs), and DER owners/operators to set ns on securing internet and cloud usage. Establish and automate testing of DER software.	Sam Icasiano Managing Director Deloitte & Touche LLP saicasiano@deloitte.com Allison White Senior Manager	
Federal and industry entities are publishing cybersecurity guidelines that are driving states to <b>adopt DER cybersecurity standards.</b>	5 when solic	ve with DER security instead of reacting to future regulation. Participate in the decision-making process ited for feedback. Stay educated on recent and upcoming regulations and standards. <b>Build DER</b> o <b>ractices</b> into standard build and interconnection methodologies.		
DERs introduce many third parties into grid operations which creates <b>new</b> <b>supply chain risks</b> that may not be able to be addressed through existing controls and programs.	4 interconn of a DER pr	es and responsibilities between entities in the supply chain. <b>Add cybersecurity language to</b> ection agreements. Develop standards depending on the type of entity engaged with as part roject or interconnection. Add steps to conduct due diligence to mitigate risks related to data sharing n adversaries, components-sourcing linked to forced labor, and foreign control of third parties.	Deloitte & Touche LLP alliwhite@deloitte.com	
DER aggregators, DER owners/operators, and related third parties, such as system integration and engineering services, should <b>collaborate to address</b> cybersecurity concerns.	<b>Include cy</b>	er-informed engineering practices when developing new DERs and during interconnection projects. <b>/bersecurity as a specific component to DER strategies</b> . Develop business cases and gain alignment on investing in cybersecurity for DERs.		

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