

# The Quantum Wake-Up Call: Shielding Energy Systems from Quantum Risks This isn't sci-fi. It's a call to act.

Quantum computing threatens to break today's encryption, jeopardizing smart grids and IoT-based control systems—turning stable power and utility networks into vulnerable infrastructure.

### Your Password Is Just The Beginning.

That 15-character password that takes centuries to crack? Quantum will do it instantly. **And it won't stop there.** 

Credentials, data, and systems are all at risk.

#### The Time it Takes to Crack Your Password

Number of Characters	Numbers Only	Lowercase Letters	Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	instantly	Instantly
5	Instantly	Instantly	Instantly	instantly	Instantly
6	Instantly	Instantly	Instantly	1 sec	5 secs
7	instantly	Instantly	25 secs	1 min	6 mins
8	Instantly	5 secs	22 mins	1 hour	8 hours
9	Instantly	2 mins	19 hours	2 chys.	
10	Instantly	58 mins	1 month	= month.	5 years
11	2 secs	Edity		41 years	400 years
52	25 secs :	2 80000	300 years	2k years	34k years
13	4 mins	Synt	16k years	took years	zm years
14	41 mins	St years	Book years	gm years	200m years
15	6 hours	sk years	43m years	Goom years	15 ton years
16	2 days	34k years	2bn years	37tin years	1fr years
17		Book years	100bn years	2tryears	ggtr years
18		23m years	6th years	100 to years	7qd years

Number of Characters	Numbers Only	Lowercase Letters	Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	instantly	Instantly
5	instantly	Instantly	Instantly	instantly	Instantly
6	Instantly	Instantly	Instantly	Instantly	Instantly
7	Instantly	Instantly	Instantly	Instantly	instantly
8	Instantly	Instantly	Instantly	Instantly	Instantly
9	instantly	Instantly	Instantity	Instantly	Instantly
10	Instantly	Instantly	Instantly	Instantly	Instantly
11	Instantly	Instantly	instantly	Instantly	Instantly
12	Instantly	Instantly	Instantly	Instantly	Instantly
13	Instantly	Instantly	Instantly	instantly	instantly
14	Instantly	Instantly	Instantly	Instantly	Instantly
15	Instantly	Instantly	instantly	Instantly	Instantly
16	Instantly	Instantly	Instantly	Instantly	Instantly
17	Instantly	Instantly	Instantly	Instantly	Instantly
18	Instantly	Instantly	Instantly	instantly	Instantly

## The Next Step Is Clear.

Modernize with a cybersecurity framework built to adapt, starting with NIST.



# The NIST Cybersecurity Framework

Built for today. Ready for what's next.

As quantum decryption threats grow, aligning with NIST provides a proven roadmap to mature cybersecurity posture—one that adapts to tomorrow's risks. **Don't wait for quantum to catch up. Get ahead with InterVision.** 

#### **RECOVER**

Strengthen disaster recovery, backups, testing, and ransomware protection for quantum-resilient continuity.

#### **RESPOND**

Update incident response and remediation plans to address breaches in a post-quantum landscape.

Begin with a **FREE Cyber Risk Maturity Assessment** from InterVision and receive expert insights to identify vulnerabilities, address security gaps, and take decisive action with confidence.

#### **GOVERN**

Leverage governance frameworks and compliance automation to guide security investments.

NIST Cybersecurity Framework

#### **DETECT**

Rely on **24/7 monitoring and support** to identify weak encryption and quantum-enabled anomalies.

#### **IDENTIFY**

Use asset management, risk assessments, and architecture reviews to prioritize systems at risk of post-quantum attacks.

#### **PROTECT**

Apply Zero Trust, infrastructure management, and segmentation to reduce exposure and support encryption agility.

#### **Ready for more?**

Access the white paper to explore actionable strategies for quantum-ready cybersecurity.