

# Interval Data Readiness Checklist

## 1. Understand the basics

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- Confirm what interval data is and why it's important for your organization.**
  - ▶ What granularity of interval data do you need? (15 minute, daily, etc)
  - ▶ Which commodities and parameters are relevant to you?
- Identify the key benefits for your specific goals (e.g., cost savings, demand management, sustainability reporting).**
- Determine the scope of the project**
  - ▶ Will you begin with a pilot?
  - ▶ How many sites and points will you track initially?
  - ▶ What defines pilot or project success?
  - ▶ If successful, how will you scale to other sites?
  - ▶ How many additional sites and points will be added?
  - ▶ What's the target timeline for bringing all sites online?

## 2. Conduct a site survey

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- Inventory existing metering and data-collection infrastructure.**
  - ▶ Document communication protocols (eg BACnet, Modbus) and/or data export capabilities
  - ▶ Identify need for gateway to connect to existing meters
  - ▶ Determine whether existing meters can be used or must be replaced (ie, if insufficient communication capabilities)
- Check accessibility for installing or upgrading metering devices**
- Identify need for additional metering**
- Evaluate physical space for device installations (indoors vs. outdoors, aesthetics).**

## 3. Assess communication and connectivity needs

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- Determine requirements for wired or wireless data communication:**
  - ▶ Distance, interference potential, and scalability.
  - ▶ Battery-powered vs. mains-powered devices.

- Plan network connectivity:**
  - ▶ Secure internet access.
  - ▶ Signal strength and coverage in all required areas.

## 4. **Ensure IT and cybersecurity readiness**

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- Engage your IT department early to address:**
  - ▶ Network authentication and encryption protocols.
  - ▶ Firewall and VPN configurations for data export and remote data access.
  - ▶ Data storage and retention policies.
- Verify data security measures, including compliance with local privacy regulations**

## 5. **Build the team**

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- Identify internal stakeholders:**
  - ▶ Energy managers, facilities managers, and sustainability leads.
  - ▶ IT and cybersecurity teams.
  - ▶ Operations personnel for installation, maintenance and troubleshooting.
- Engage external experts or contractors as needed for:**
  - ▶ Hardware installation.
  - ▶ System integration and commissioning.

## 6. **Prepare for hardware**

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- Identify necessary hardware: meters, gateways, and sensors.**
- Choose compatible hardware:**
  - ▶ Accuenergy: Multi-channel power meters with digital inputs for pulse signals, gateway for existing Modbus meters and pulse signals.
  - ▶ Wattwatchers: 4G-enabled electricity meters.
  - ▶ EpiSensor: Wireless power meters and sensors for pulse signals, analog signals, temperature, etc.
  - ▶ eGauge: multi-channel electricity meters.
- Engage internal electricians or contractors for installations.**

## 7. **Set up data integration**

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- Confirm the data capture methods you'll use:**
  - ▶ Direct from meters (time-series files, API integration, etc.).
  - ▶ Through gateways or third-party platforms.

- Test data export formats (flat files, APIs). Request a sample file if possible.
- Configure gateway(s) to read from Modbus/BACnet/pulse data for compatibility.
- Ensure IT network setup supports secure data flow to analytics software.

## 8. Implementation and testing

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- Install meters and gateways in designated locations.
- Configure devices to send data to the analytics platform.
- Test system functionality to ensure data accuracy and flow.

## 9. Establish baseline and define success metrics

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- Set baseline for interval performance benchmarks.
- Establish KPIs for interval data use:
  - ▶ Reduced peak demand charges.
  - ▶ Faster detection and resolution of equipment inefficiencies.
  - ▶ Improvements in energy use intensity (EUI).

## 10. Provide training and documentation

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- Train key personnel on data interpretation and system use.
- Develop or source an operations manual for ongoing system management.

## 11. Evaluate pilot

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- Evaluate pilot outcomes and refine processes.
- Scale up implementation across multiple sites, prioritizing the highest-impact locations.

## 12. Monitor and optimize

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- Regularly review system performance and data insights.
- Adjust strategies based on findings to maximize ROI.
- Engage stakeholders with periodic updates and reports on system benefits.