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Finding the right energy management information system (EMIS) entry point

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By the end of this workshop, you will be able to:



Assess your current state and desired end state for EMIS adoption



Identify key gaps and opportunities relative to the desired end state



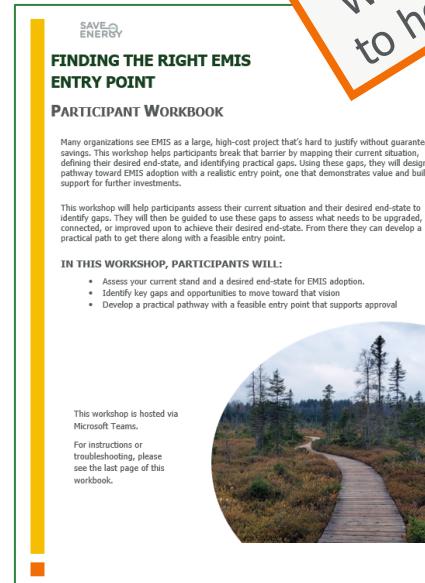
Develop a practical pathway with a feasible entry point

Follow along in the Participant Workbook!

Have the workbook open or printed out

Where to find the workbook:

- Click the link in the chat
- Download a copy to your computer
- Open and follow along



FINDING THE RIGHT EMIS ENTRY POINT
PARTICIPANT WORKBOOK

Many organizations see EMIS as a large, high-cost project that's hard to justify without guaranteed savings. This workshop helps participants break that barrier by mapping their current situation, defining their desired end-state, and identifying practical gaps. Using these gaps, they will design a pathway to success, starting with a realistic entry point, one that demonstrates value and builds support for further investments.

This workshop will help participants assess their current situation and their desired end-state to identify gaps. They will then be guided to use these gaps to assess what needs to be upgraded, connected, or improved upon to achieve their desired end-state. From there they can develop a practical path to get there along with a feasible entry point.

IN THIS WORKSHOP, PARTICIPANTS WILL:

- Assess your current stand and a desired end-state for EMIS adoption.
- Identify key gaps and opportunities to move toward that vision
- Develop a practical pathway with a feasible entry point that supports approval

This workshop is hosted via Microsoft Teams.
For instructions or troubleshooting, please see the last page of this workbook.



Watch for this icon to help follow along



Why finding the right entry point matters

Same destination, different starting points



Building momentum starts with understanding where your organization is ready to act.

Case 1: full EMIS installation

- High potential, high resistance
- Comprehensive EMIS design
- Full facility integration, dashboards, analytics
- Estimated cost: \$500,000
- Projected savings: uncertain at proposal stage

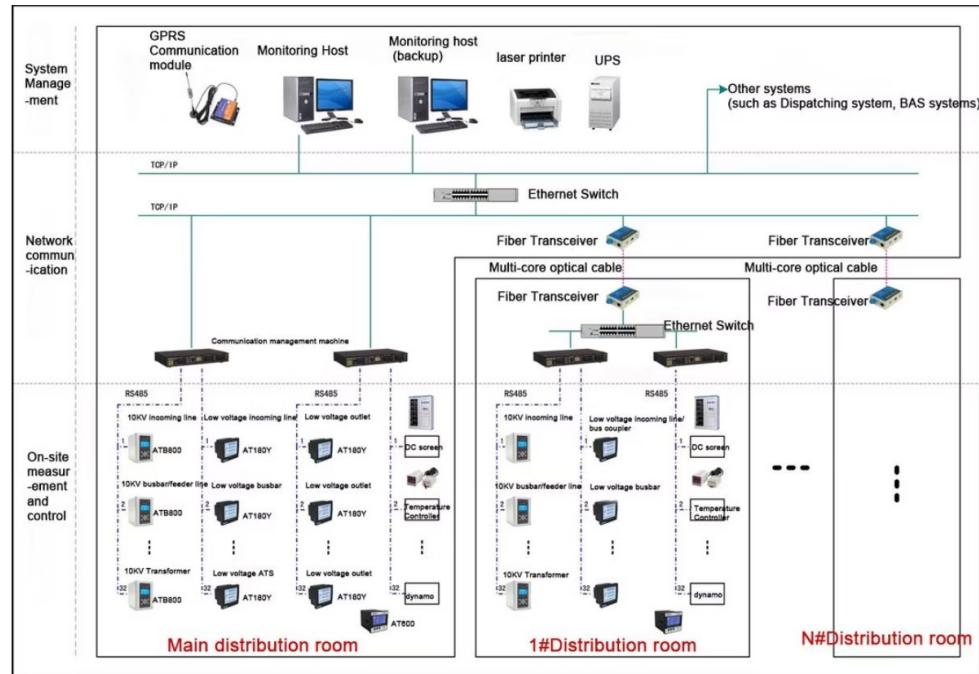


Image source: HANGZHOU ANTIN Technology

Case 2: limited submetering as a strategic first step

- Targeted loggers of significant energy users
- Investment: \$10,000
- Manually collecting data



Image source: AEMC Instruments

Two different paths, same destination

Full EMIS approach

- Broad scope and high cost
- May face pushback if return on investment (ROI) uncertain
- Immediate full visibility
- Early discovery of energy savings and non-energy benefits
- High implementation complexity
- Strong executive mandate

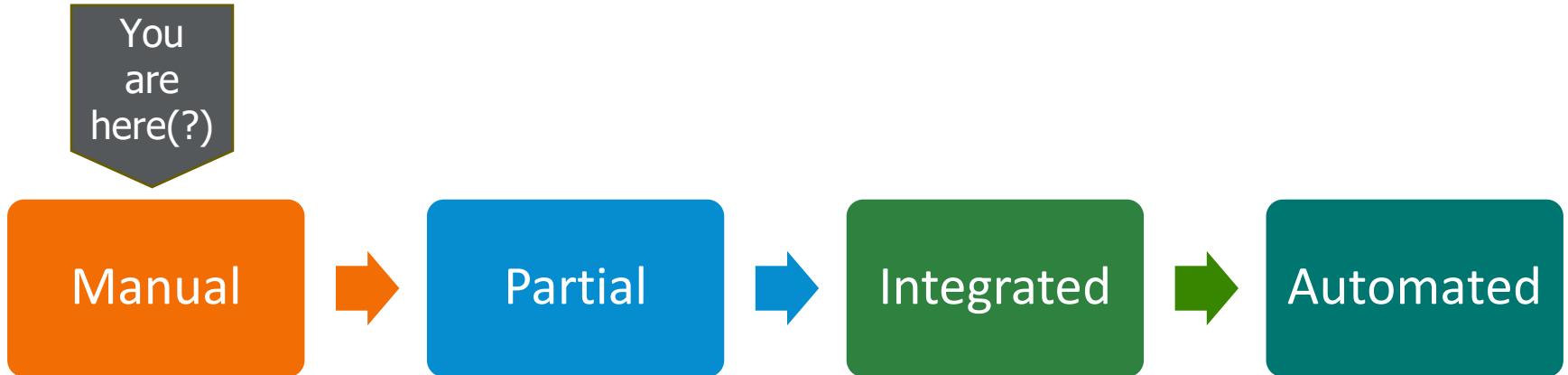
Entry point approach

- Focused scope, lower cost
- Easy approval due to clear purpose
- Phased visibility that grows with success
- Low risk, fast to show value
- Builds mandate through proven results



Mapping your EMIS maturity to determine your current state

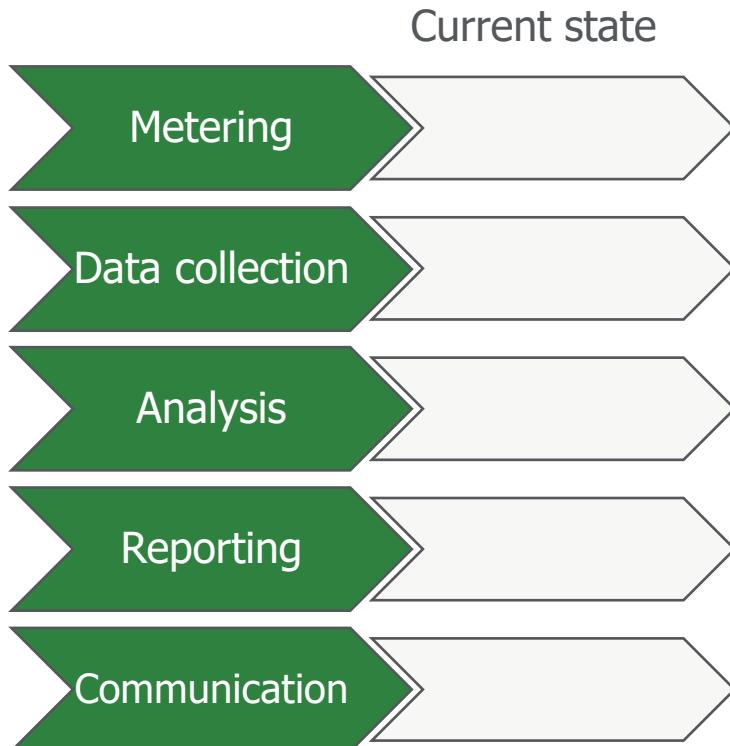
EMIS maturity spectrum



The five aspects of EMIS



Rate your current state





Define desired end-state vision

Desired end-state vision

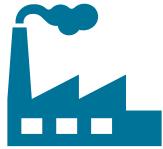


EMIS vision should support your organization's priorities

- What features do you want?
- What impact should it have?
- How will it be aligned with organizational goals?



What does an EMIS vision look like in practice?



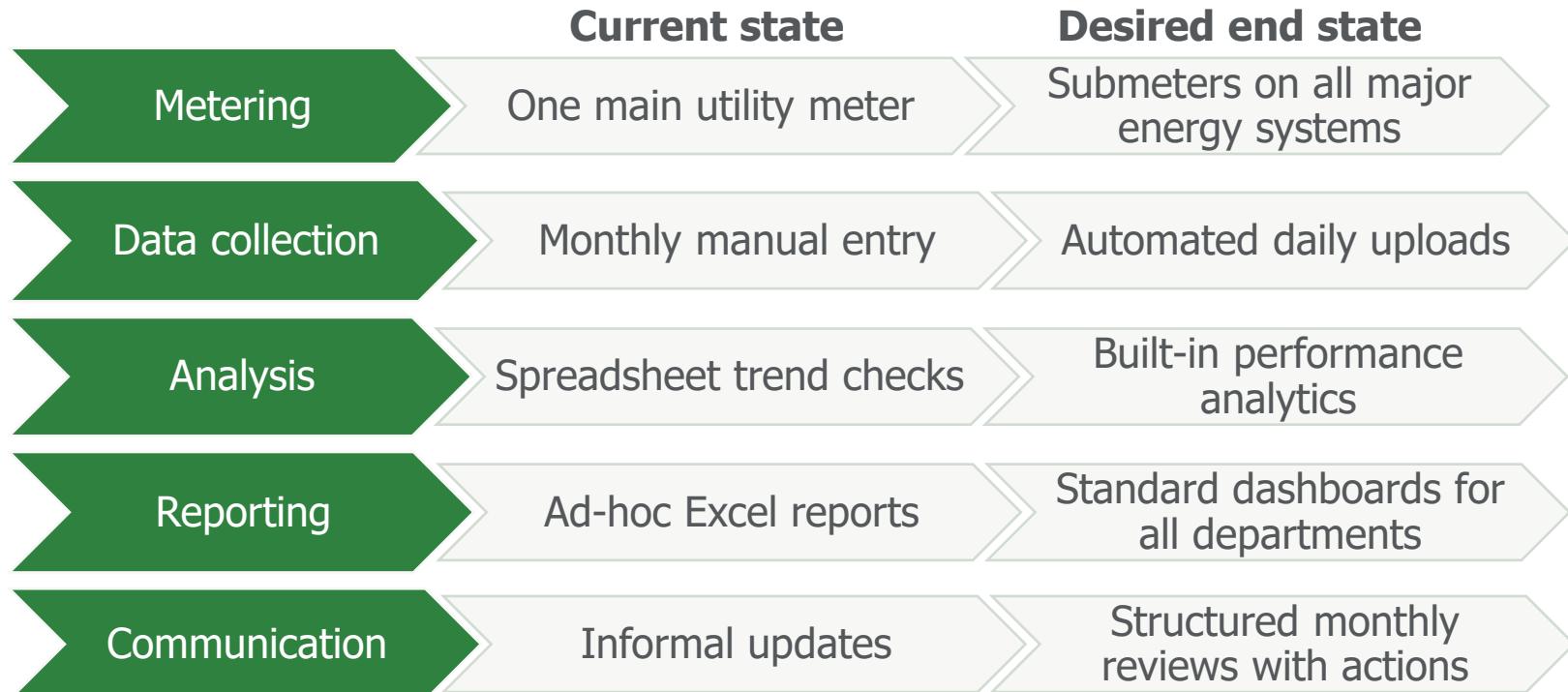
- Identify efficiency opportunities
- Improve reliability by supporting predictive maintenance
- Support ISO 50001 compliance



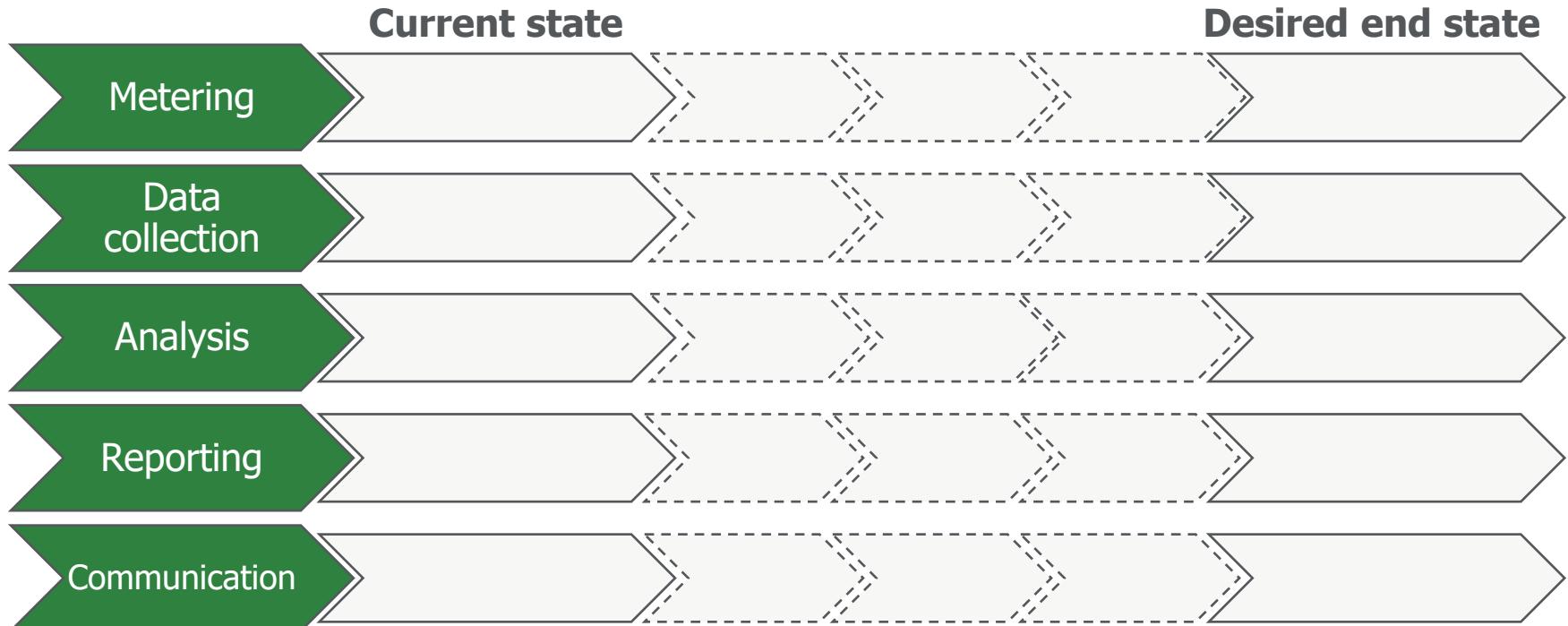
- Integrate with a building automation system (BAS) to maintain comfort
- Verify performance of efficiency measures like setbacks, occupancy controls, etc.
- Automatically report performance to management
- Track energy intensity of all buildings
- Support maintenance efforts
- Engage staff and students and integrate with academia



Example of current and desired end state



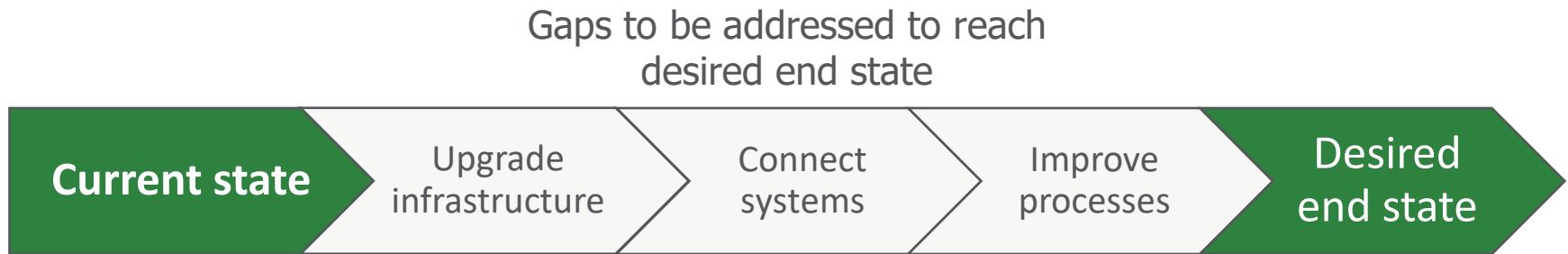
Your desired end state across the five aspects



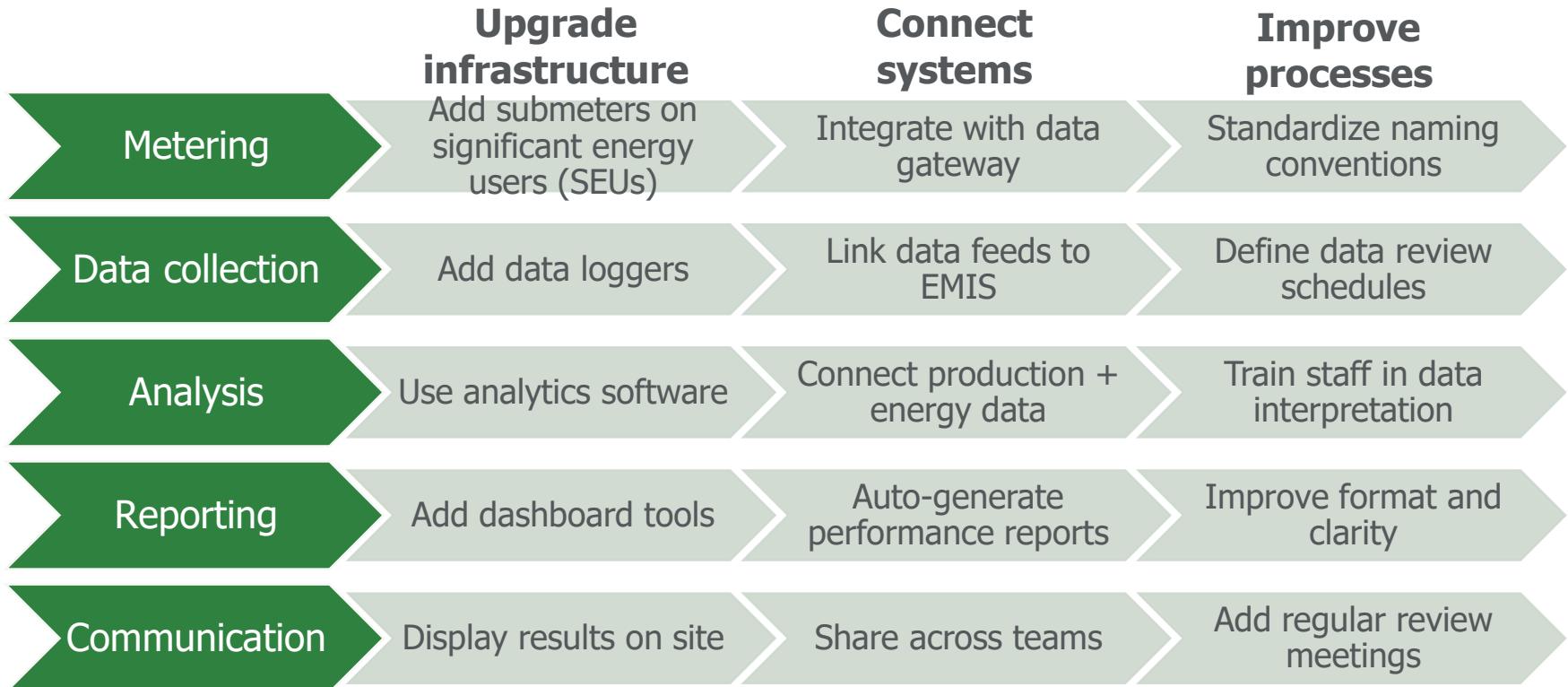


Identifying and prioritizing gaps

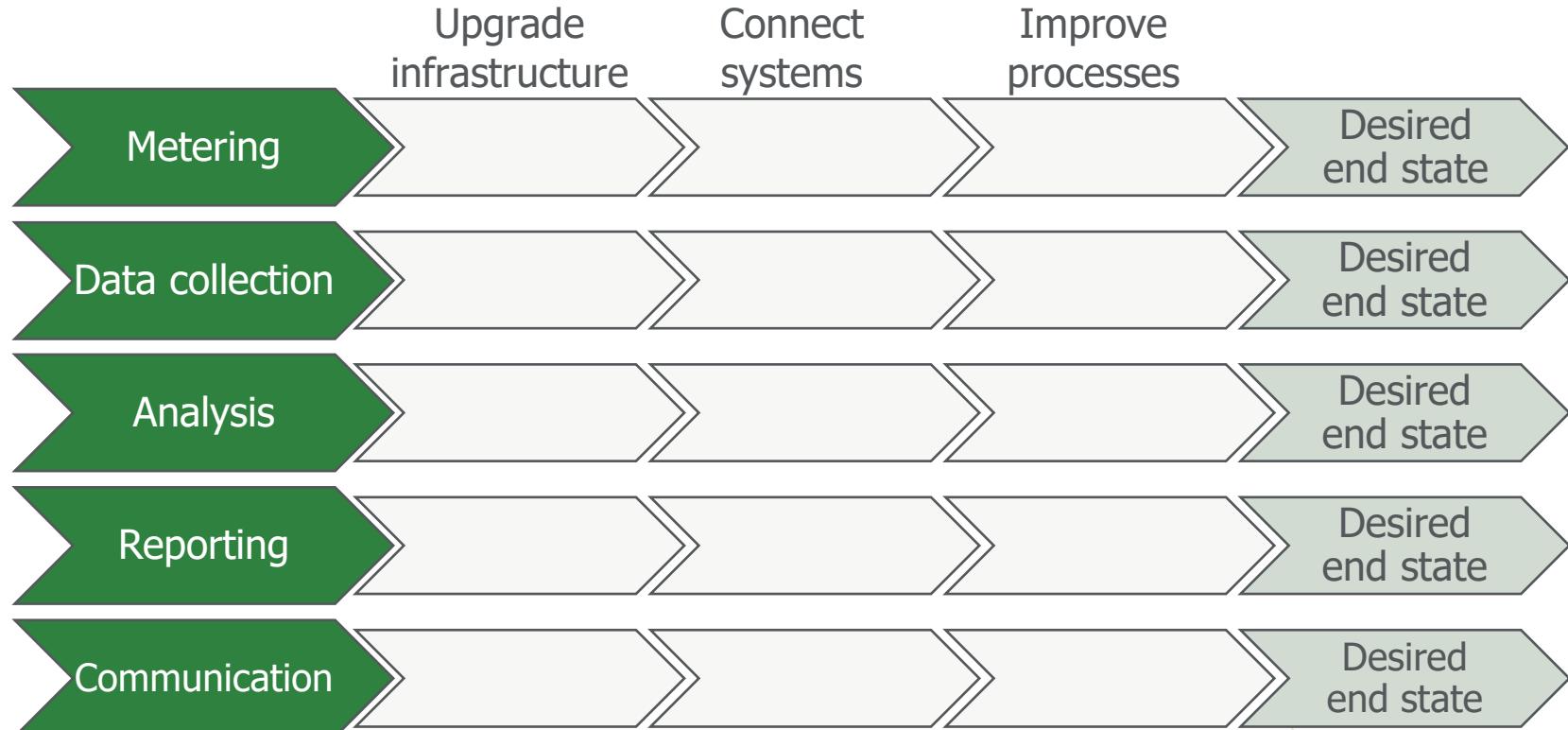
Three types of EMIS gaps



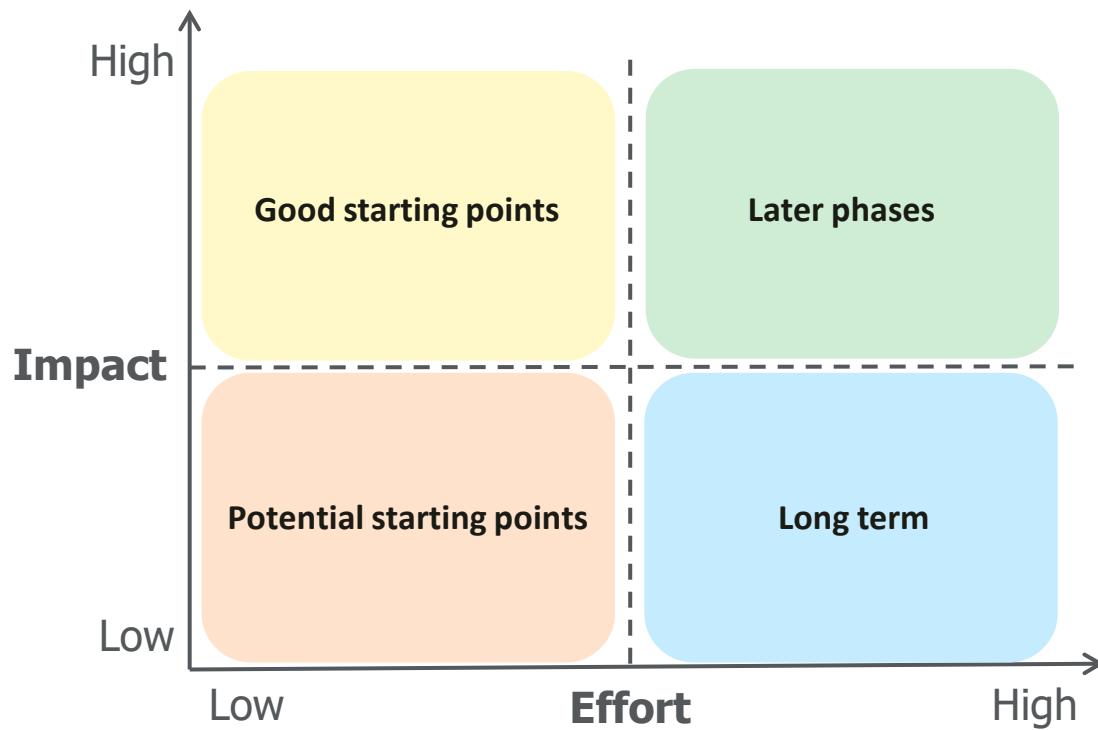
Visualizing gaps - example



Visualizing gaps



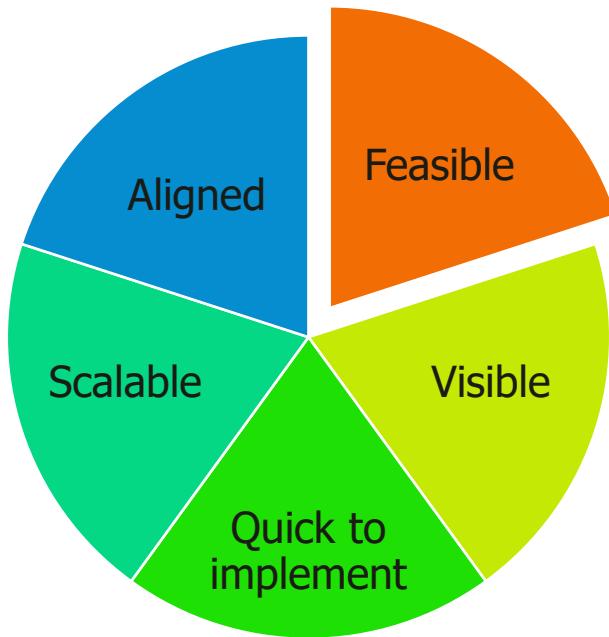
Prioritizing which gaps to address first





Feasible entry point projects to overcome barriers

What makes a strong entry point project



Evaluate your entry point project options

| | Yes | No |
|--|--------------------------|--------------------------|
| Can it be implemented with a limited budget? | <input type="checkbox"/> | <input type="checkbox"/> |
| Does it support existing priorities? | <input type="checkbox"/> | <input type="checkbox"/> |
| Does it build toward the desired end state? | <input type="checkbox"/> | <input type="checkbox"/> |
| Will it quickly deliver noticeable results? | <input type="checkbox"/> | <input type="checkbox"/> |
| Is it likely to get buy-in? | <input type="checkbox"/> | <input type="checkbox"/> |

Leverage incentives to strengthen your case



Expanded Energy Management Program



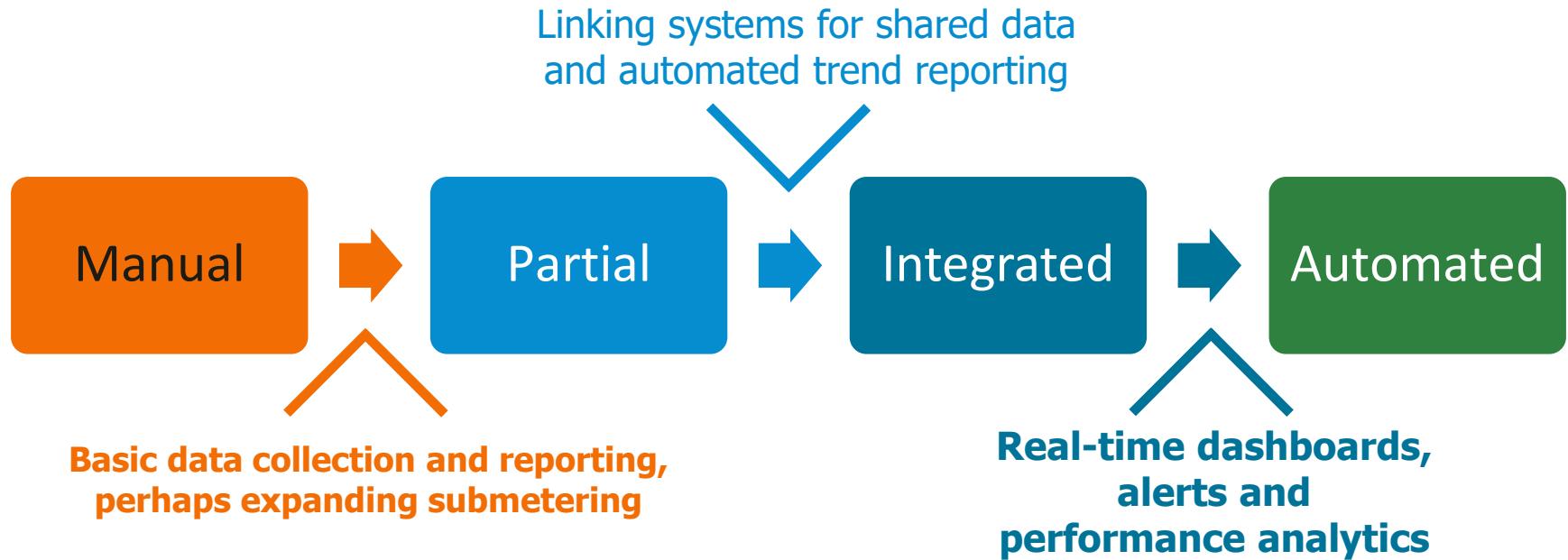
Energy management information systems (EMIS):
Industrial facilities can receive funding up to \$250,000 for the installation of an energy management system.

Case study: Automotive manufacturing facility

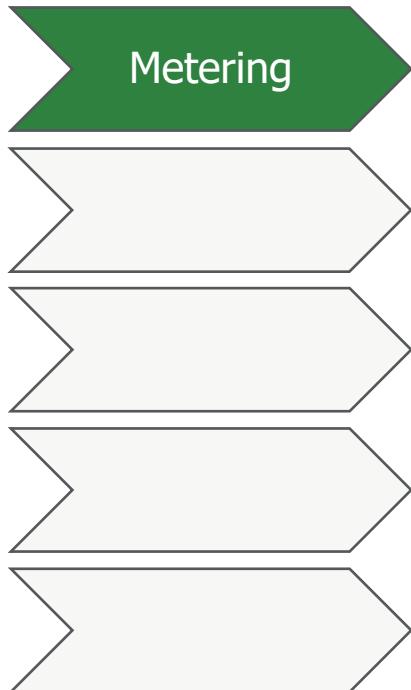


EMIS pathway

Progressing toward desired end state



Futureproofing your pathway - 1



- Choose meters that support one or more open, widely supported communication protocols
- Select meters with expandable/upgradeable features:
 - Multiple parameters
 - Upgradeable communications
 - Onboard logging
- Standardize device naming

Futureproofing your pathway - 2



- Design your communications backbone now
- Plan for a central data-collection layer
- Coordinate early with your IT team
- Keep detailed records

Futureproofing your pathway - 3



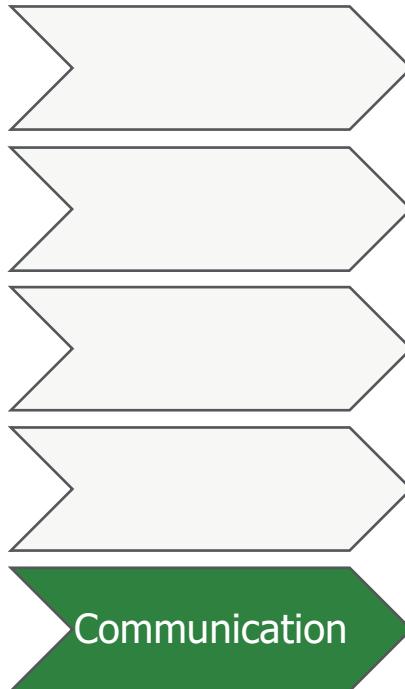
- Store data locally (until cloud EMIS is chosen)
- Choose consistent intervals (e.g. 15 second or 1 minute) and synchronize all devices via Network Time Protocol/UTC time stamps
- Archive raw interval data and aggregated data
- Collect all necessary data to achieve desired outcomes
- Implement data quality flags

Futureproofing your pathway - 4



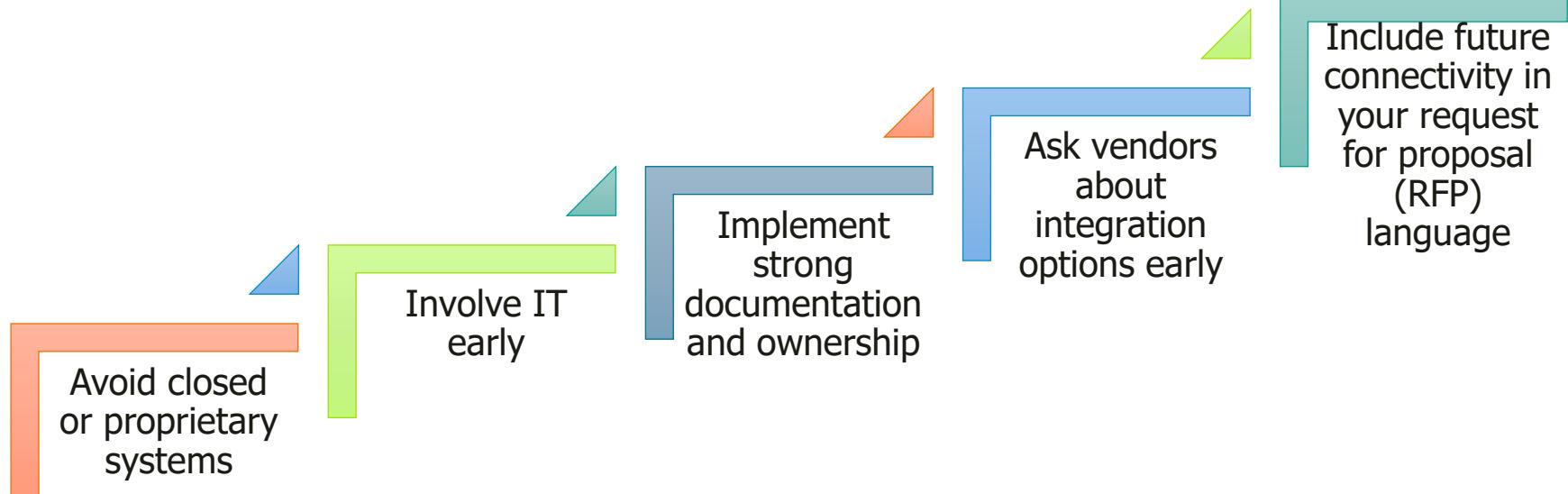
- Set up standard reports for different audiences
- Develop reporting plans that detail audience, frequency, report format and responsible persons
- Avoid closed or proprietary systems

Futureproofing your pathway - 5



- Plan how insights will drive action
- Identify desired actions and the data and analysis needed to support them
- Get input from stakeholders on what would be useful to them as the system grows

Success factors for scaling



Building support



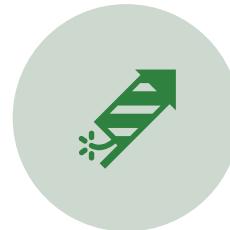
Identify key decision-makers and champions



Tailor your message: finance cares about ROI, operations care about uptime, executives care about visibility



Use simple visuals to communicate progress (e.g. maturity diagrams or dashboards)



Celebrate pilot successes to build buy-in



Call to action

Start small. Align big. Scale smartly.

What is one specific action you'll take in the next 30 days to move your EMIS forward?

Stay connected with tools and resources

- Virtual one-on-one coaching: [post-webinar support intake form](#) for tailored support for organizations to manage energy resources effectively
- Monthly bulletin: [sign up](#) to receive monthly training updates on all Save on Energy training and support for new tools and resources
- [Live training calendar](#): visit this page to easily register for upcoming events and workshops
- [Training and support webpage](#): visit this page to access all training and support materials

Energy management information system (EMIS) incentives

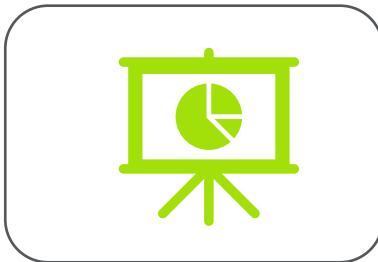
- ✓ Industrial facilities can receive funding of up to \$250,000 for the installation of an EMIS.
- ✓ An EMIS is designed to provide organizations with energy-related data and insights to effectively manage energy use.



EMIS incentive *



Benefits of participating in a program that funds EMIS



50% of project costs

- Equipment
- Third-party installations
- Prepare project measurement and verification (M&V) plan

Reducing energy costs

- Improve budgeting and forecasting
- Identify areas of cost reduction

Improving performance

- Improve target setting
- Enhance analytics capability
- Identify energy waste

Accountability

- Increase awareness of energy consumption
- Monitoring performance against benchmarks and key performance indicators (KPIs)

Join the energy management community!

Get access to:

- **Online training**, courses and other resources to learn how to improve energy management practices
- An **online discussion forum** to connect with peers and experts
- **Peer discussion groups** and meet-ups to share experiences and discuss challenges
- **Small group coaching** sessions to get guidance from experienced energy coaches

Registration is free!



For more information:
trainingandsupport@ieso.ca

THE ENERGY MANAGER'S PLAYBOOK



SAVE
ON
ENERGY™

"I was listening to an episode on my way home from work and I had to turn it off because I was getting too many ideas that I wanted to listen to it at home where I could take notes."

-Allison

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