

# Consumer Control Questions

## Policy

- Do we pick a technology type? E.g. IHD vs smart phones vs smart thermostat
- Should all customers get the same technology type?
- Voluntary or Mandatory?
- How do we encourage Ontario opportunities for Consumer control
- What privacy and security measures do we need for compliance purposes?

## Technology

- Do we need a functional specification?
- Are we standard setter or adopter?
- Do we need to develop a technical specification
- Do we need more technology pilots?

## Implementation

- What are the knowledge gaps? (regulatory, technological, cost-benefit)
- What is the best way to rollout devices, i.e. phased, all at once?
- What is the preferred distribution model for the devices?

## Cost

- How much will it cost?
- Do we need more pricing pilots?
- Should procurement be coordinated?

# Utility Flexibility Questions

## Policy

- What are the objectives beyond incorporating DG solutions, i.e. utility efficiencies
- What aspects of DG implementation should be centralized vs left up to LDCs?
- Do we limit the amount of investment in conventional technology in the near-term to encourage “smart” investments.
- Do we pick a common technology type for all LDCs? Joint procurement?
- How do we encourage Ontario opportunities for Utility Flexibility

## Technology

- What technologies do we need to focus on in the near, mid, long terms?
  - Are functional specifications required for them?
- Do we mandate a open-standards to ensure interoperability (between LDCs, jurisdictions, operator)
- Are we standard setter or adopter? Do we adopt int’l security standards?
- Do we need more technology pilots? If so, for what/why?

## Implementation

- How do we ensure that today’s investments fit into the long-term smart grid strategy?
- How do we maximize our current infrastructure before making larger investments?
- How do we ensure that best practices are shared
- How do we minimize duplication of in piloting DG technologies?

## Cost

- How will a maximum cost threshold be established?
- How will LDCs distinguish between “smart” investments vs conventional investments.

# Adaptive Infrastructure

## Policy

- Do we want to leverage EVs for storage, if so – when?
- Who should own/operate charging stations?
- What level of coordination is required between LDCs (roaming)
- Is there a business case for an aggregator of EV load? Is this a private sector function or gov't?
- Do we mandate new buildings/reno's to rough-in EV charging infrastructure?
- From a regulatory perspective how would we treat battery swapping companies, i.e. are they retailers?
- How do we ensure flexibility in the regulatory regime to accommodate for future innovations?

## Technology

- Do we need a specification for home charging infrastructure?
- What should our focus be beyond EVs and Storage applications?

## Implementation

- Are all charging models workable? i.e can battery swap, home recharge and charge stations co-exist?
- What type of coordination is required for building out infrastructure

## Cost

- What is framework for determining price paid to consumers who feedback energy to the grid through EV batteries storage or other means of storage?
- What is the cost recovery model for building charging infrastructure?