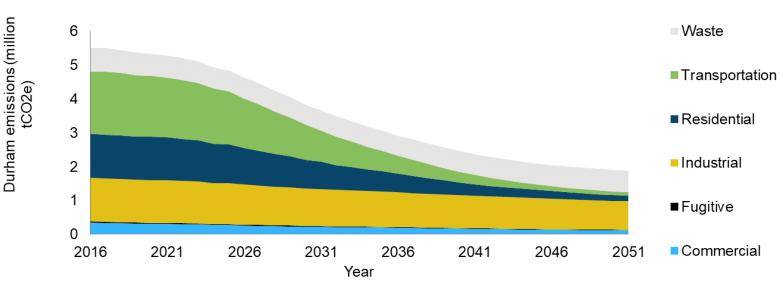




#### **Durham's Commitment to Climate Action**

- Regional Council declared a climate emergency in January 2020
- Durham Community Energy Plan strategy to reduce GHG emissions & seize economic opportunities related to the clean energy transition
- Presents low carbon pathway up to 2050.



Source: Durham Community Energy Plan (2018)



## **Durham Climate Dashboard – Key Drivers**

 Support implementation of DCEP and setup Evaluation & Monitoring Framework.

Table 9. Monitoring and evaluation activities

ACTIVITY	PURPOSE	DESCRIPTION	FREQUENCY
1. Annual work plan and review	Review work to-date and set annual priority actions	Annual report with prioritized actions	Annual
2. Annual indicator report	Track effectiveness of actions	Annual report on set of indicators with an analysis of the results	Annual
3. Inventory	Update energy and GHG emissions profile	Re-calculate the GHG emissions and energy inventory	Every 2 years
4. Update the DCEP	Update the DCEP to reflect changing conditions	Review each action and the progress being achieved. Identify new actions.	Every 5 years



### **Durham Climate Dashboard – Key Drivers**

- Need to develop data collection process
- Review and assessment of DCEP actions
- Facilitate public reporting & transparency on climate action



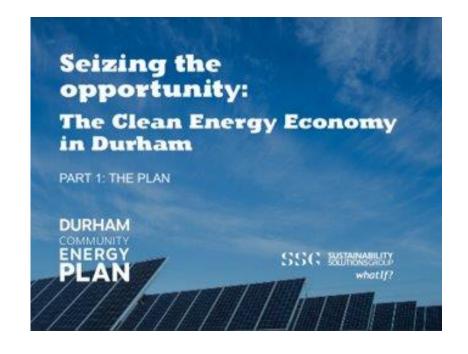




#### **Durham Climate Dashboard**

#### **Objectives:**

- Monitor the Durham Community Energy Plan's (DCEP) progress towards achieving climate targets.
- Track climate initiatives and facilitate ongoing evaluation of progress in achieving GHG emission reductions.



**Kausal:** digital-based platform that enables municipalities to communicate progress of climate plans, manage data, and support collaboration around climate action.



#### **Durham Climate Dashboard**

# Monitoring & Evaluation Platform

**Actions & Indicators** 

**Data Collection & Display** 





## **Low Carbon Pathways & Measures**

## Homes & Building Efficiency

- **>>>**
- 1. Increase efficiency of new homes
- 2. Increase efficiency of ICI buildings
- 3. Retrofit homes built prior to 1980
- 4. Retrofit homes built between 1980 and 2017
- 5. Retrofit commercial and industrial

## **Local Energy Generation** & Distribution

- 6. Install heat pumps
  - 7. Install net metered solar PV
  - 8. Install solar hot water
  - 9. Develop groundmount commercial solar PV
- 10. Develop district energy
  - 11. Develop energy storage
  - 12. Develop wind
  - 13. Develop renewable natural gas

#### **Transportation Efficiency**

- 14. Expand transit
- 15. Electrify transit
- 16. Increase cycling & walking infrastructure
- 17. Increase rideshare
- 18. Establish car free zones
- 19. Electrify municipal fleet
- 20. Electrify personal vehicles
  - 21. Electrify commercial vehicles

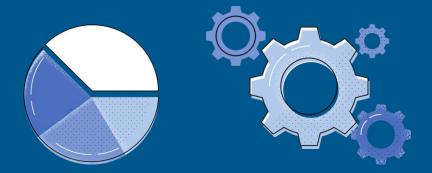
Note: Measures 6. Install heat pumps (35%), 10. Develop district energy (15.7%), 1. Increase efficiency of new homes (14.2%) and 20. Electrify personal vehicles (11.2%) account for three quarters of the total GHG reductions.



#### **Durham Climate Dashboard: Demo**

**Link: Durham Climate Dashboard** 

Demo.mp4







## Thank You!

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