WOOD PELLETS ROLE IN

FOREST MANAGEMENT AND CARBON CYCLE

WOOD PELLET ASSOCIATION OF CANADA

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RELIABLE AND STABLE SUPPLIER

RESPONSIBLE SOURCING

Photo courtesy of naturallywood.com

CANADIAN WOOD PELLET SECTOR

Renewable and grown by the power of the sun

Sustainably managed and responsibly sourced

Backed by comprehensive regulations and enforcement

Third-party certified for added assurance

Contribution to a low carbon economy, harnessing wood “waste” to displace fossil fuels in

Canada well-positioned to offer sustainably produced wood pellets:

- 3rd most forested country after Russia and Brazil.
- World’s largest forest products exporter.

Demonstrating sustainability requires:

- Transparency.
- Providing environmental credentials backed up by science and data.

RESPONSIBLE SOURCING




- Canadian wood pellet sector exists to make better use of forests already being harvested.
- Pellets are primarily made from sawdust and low-quality logs unsuitable for sawmills and pulp mills.
- Recently, Canadian wildfires have burned 5 to 15 million hectares of managed forests annually.
- Burnt wood recovered from wildfires is an important raw material source for wood pellets.

HIGHEST AND BEST USE: 2022 STUDY

BIOMASS CERTIFICATION

- Canada leads the world in third-party forest management certification.
- Biomass certification through Green Gold Label and / or Sustainable Biomass Program provides additional assurance.
- Cover sourcing, production, processing and transportation through to final use.

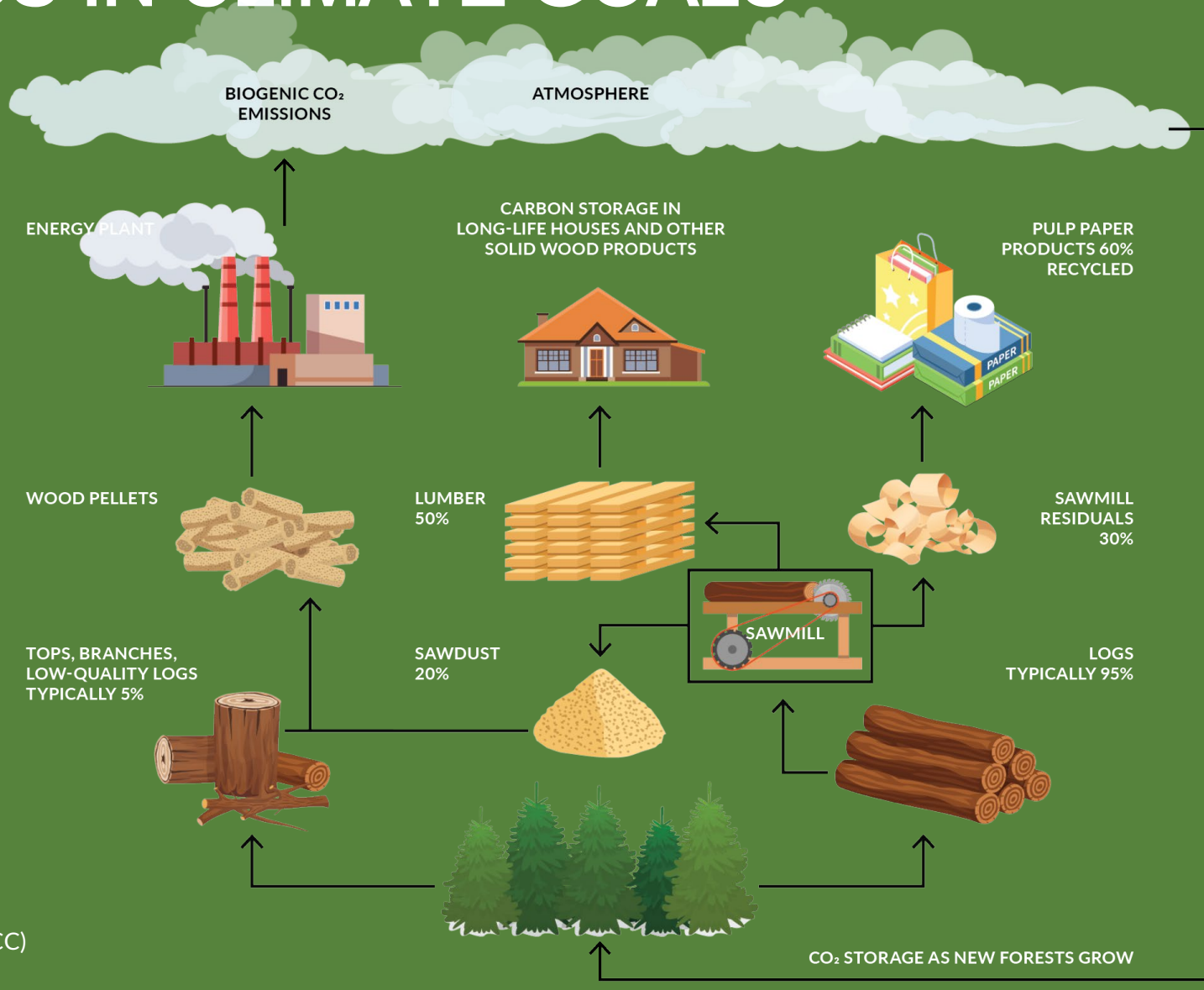
REDUCING GHGS

THE ROLE OF BIOMASS IN CLIMATE GOALS

GHG MITIGATION POTENTIAL OF BIOMASS:

80–90%

(provided developed sustainably and used efficiently)



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According to United Nations Intergovernmental Panel on Climate Change (IPCC)

THE ROAD TO CARBON NEGATIVE WITH CARBON CAPTURE & STORAGE

- Bioenergy can potentially be carbon neutral or even carbon negative through Bioenergy with Carbon Capture and Storage (BECCS).
- BECCS is process of capturing and permanently storing carbon dioxide (CO_2) generated during electricity production from sustainable biomass.
- One of the most scalable carbon removal technology available today.
- Solid wood pellets are easier to handle and are comparatively safe compared to gaseous hydrogen and ammonia.

GOOD FOR FORESTS

Example: Sweden

- ~37% energy supply from biomass.
- Since 1990
  - 2X bioenergy consumption AND
  - 40% increase in standing timber volume =
  - 70% reduction in GHG emissions

ENERGY WE CAN FEEL GOOD ABOUT

WOOD PELLET

ASSOCIATION OF CANADA